NEW IDEAS FROM DEAD ECONOMISTS

AN INTRODUCTION TO MODERN ECONOMIC THOUGHT

COMPLETELY REVISED AND UPDATED

Todd G. Buchholz

With a Foreword by Martin Feldstein

A PLUME BOOK
Table of Contents

Title Page
Copyright Page
Foreword
Preface to the Revised Edition
Acknowledgements

CHAPTER I - Introduction: The Plight of the Economist
CHAPTER II - The Second Coming of Adam Smith
CHAPTER III - Malthus: Prophet of Doom and Population Boom
CHAPTER IV - David Ricardo and the Cry for Free Trade
CHAPTER V - The Stormy Mind of John Stuart Mill
CHAPTER VI - The Angry Oracle Called Karl Marx
CHAPTER VII - Alfred Marshall and the Marginalist Mind
CHAPTER VIII - Old and New Institutionalists
CHAPTER IX - Keynes: Bon Vivant as Savior
CHAPTER X - Milton Friedman and the Monetarist Battle Against Keynes
CHAPTER XI - The Public Choice School: Politics as a Business
CHAPTER XII - The Wild World of Rational Expectations and Behavioral Economics
CHAPTER XIII - Dark Clouds, Silver Linings

Notes
Index
A PLUME BOOK

NEW IDEAS FROM DEAD ECONOMISTS

TODD G. BUCHHOLZ is an internationally acclaimed economist who advises some of the world’s leading investment funds. He has served as a director of economic policy at the White House and as a managing director of the legendary Tiger hedge fund. Buchholz holds advanced degrees from Cambridge University and from Harvard, where he was awarded the Allyn Young Teaching Prize by the Department of Economics. His other books include New Ideas from Dead CEOs, From Here to Economy, Market Shock, Bringing the Jobs Home, and a novel, The Castro Gene. He lives in Solana Beach, California.

Praise for New Ideas from Dead Economists

“If you only read one economics book this year, read this one.”
—Lawrence H. Summers, former U.S. Treasury Secretary, Professor of Political Economy, Harvard University

“Readable . . . enjoyable . . . valuable to the lay reader who wishes to speak intelligently about economics and world markets.”
—National Review

“A first-class book.”—The Christian Science Monitor

“Witty . . . accessible . . . a history of economic thought that won’t scare even the worst econophobes.”—Phoenix Republic

“A sorely needed and well-written guide to the still living ideas that fashion our prosperity.”—Alfred L. Malabre, Jr., author of Understanding the New Economy

“Lights up economics with a wickedly sparkling wit.”
—Associated Press

“An excellent review of contemporary macroeconomic theories and issues . . . It does not get any better than this.”—Choice

“Effective and entertaining . . . highly recommended.”
—Library Journal

“Successfully puts a wide range of economic theories and philosophies into an understandable, everyday perspective.”
—Booklist
ALSO BY TODD G. BUCHHOLZ

NONFICTION
New Ideas from Dead CEOs
From Here to Economy
Market Shock
Bringing the Jobs Home

FICTION
The Castro Gene
NEW IDEAS FROM DEAD ECONOMISTS

AN INTRODUCTION TO MODERN ECONOMIC THOUGHT

COMPLETELY REVISED AND UPDATED

Todd G. Buchholz

With a Foreword by Martin Feldstein
PUBLISHER'S NOTE

The scanning, uploading, and distribution of this book via the Internet or via any other means without the permission of the publisher is illegal and punishable by law. Please purchase only authorized electronic editions, and do not participate in or encourage electronic piracy of copyrighted materials. Your support of the author’s rights is appreciated.

BOOKS ARE AVAILABLE AT QUANTITY DISCOUNTS WHEN USED TO PROMOTE PRODUCTS OR SERVICES. FOR INFORMATION PLEASE WRITE TO PREMIUM MARKETING DIVISION, PENGUIN PUTNAM INC., 375 HUDSON STREET, NEW YORK, NEW YORK 10014.

http://us.penguin.com
Foreword

All of us are affected by government economic policies and by private economic decisions. No one can be an informed voter or even an understanding reader of the daily newspaper without a knowledge of economics. And who can plan for the future in which we and our children will live and work without a sense of the forces that shape our economic life?

The economic policy issues that we debate today—trade policy, inflation, the proper role of government, the eradication of poverty, and the means of raising the rate of economic growth—have been discussed by economists for more than two centuries. Many of today’s economic policies—both the good ones and the bad—are the result of the ideas of those past economists. And many of today’s debates about economic policy can be understood only by those who have at least some familiarity with the ideas of earlier economists.

The giants of economic science during the past two hundred years have been men concerned with the critical policy issues of their time. They studied the working of the economy in order to advocate better economic policies. But despite their concern with policy, they were not polemicists or politicians but men who sought to persuade their contemporaries in government and in the broader public by analysis and evidence that would meet the standards of professional debate.

Like any scientific discipline, economics advances by discovering the limitations of earlier ideas. Although economics does not have the opportunities for experimentation that characterizes the natural sciences, economists can use systematic observation and the analysis of experience to reject old theories and develop new ones.

The changes in technology and in the political and institutional environment impede the process of drawing firm conclusions about the likely effects of alternative economic policies. It can take decades before issues are settled, and new generations of economists and policy officials may have to learn that the conclusions of the past continue to be valid in the changing environment of today.

Adam Smith, the eighteenth-century founder of modern economics, rejected the conventional wisdom of his day by arguing that government interference in the economy is generally harmful and that the public’s interest is best served by competition among private buyers and sellers. In recent years, governments around the world have recognized the virtues of a market economy based on private enterprise rather than on government planning and public ownership. The reduction of tax rates in the United States, the privatization of nationalized industries in England and France, the resurrection of family farms in China, and the Soviet economic restructuring that has been labeled “perestroika” are the direct descendants of the early ideas of Adam Smith.

The theories of John Maynard Keynes, developed in England during the depression of the 1930s, have helped governments to avoid a return to mass unemployment. But the
Keynesian arguments against saving and in favor of increased consumer spending are being gradually abandoned as inappropriate for the very different conditions of today’s economy. Now we understand that increased saving can in general be the basis for increased investment in new plant and equipment and therefore for faster economic growth and a higher standard of living.

When Federal Reserve officials make decisions about monetary policy and interest rates they are relying on ideas and evidence that can be traced back to nineteenth-century economists like John Stuart Mill as well as on the latest data being developed in Washington. When Treasury officials debate appropriate tax rules for businesses and individuals, they may make use of analytic arguments that date back more than a century to David Ricardo and Alfred Marshall. Similarly, the analysis of trade policy, energy and environmental regulation, and antitrust legislation are based on ideas that have developed through the centuries. A familiarity with these economic ideas is important for anyone who wants to understand how new policies are likely to affect the economy and why certain policies are chosen.

In this book, Todd Buchholz provides a lively and intelligible introduction to the key ideas of economics through the study of the great economists who have shaped the discipline. Instead of the formal models and complex diagrams that are the focus of standard economics textbooks, Buchholz provides clear, nontechnical explanations and timely examples.

I first met Todd Buchholz when he was teaching a section of the introductory economics course at Harvard. Buchholz was an excellent teacher who was selected from among the thirty other teachers in the course to receive the annual prize for outstanding teaching of introductory economics. His skills in the classroom are well displayed in this very readable book.

—Martin Feldstein

Cambridge, Mass.

June 1989
Preface to the Revised Edition

Vincent van Gogh painted twenty-eight portraits of himself in just two years! I have avoided such introspection and have managed to keep both ears attached to my head. I had not read New Ideas from Dead Economists since early 1989, when I delivered a manuscript to the offices of E.P. Dutton, for its hardcover debut. I suppose some authors reread their works often, reminiscing about a skillful turn of phrase or prescient thought. Rather than reread my work, I continually watched the world economy over the subsequent ten years to see how the book’s ideas and the great economists’ ideas held up. This revised edition benefits from a careful study of economic trends and crises from my perch as a White House economist, Wall Street adviser, investment fund manager—and father. I was none of those when I drafted the first edition.

The world has changed in staggering ways. Mostly for the good. New medicines, new technologies, more jobs, less inflation, and less crime have blessed the United States. In 1989, we had no Internet, no anti-baldness drugs, few automobile airbags, and no hope that the jobless rate could plunge below 5 percent or that U.S. stock prices would more than triple during the 1990s. In the years since the first edition we have also seen demonstrated a phenomenon I call the “scissors economy.” Technology has permitted Americans to cut out the middleman from many purchases. Who needs a stock-broker or an insurance agent if the Internet allows people to comparison shop? You can buy a sockeye salmon direct from Alaska within seconds or an airplane ticket to Timbuktu. Consumers have more control than they have ever had before. Even the old monopolistic utilities have broken down, as cable, satellites, fiber optic, and wireless technologies compete for your television, telephone, and computer business. A striking advertisement appeared in the Washington, D.C., area, touting a new telecommunications company. Posters displayed a statue of Lenin with a rope around his neck and the headline: “No Empire Lasts Forever—Especially One That Keeps You Waiting 5 hours for a Repairman.”

Three sweeping changes command our attention. The first element is mostly a positive story for world peace: The Berlin Wall came tumbling down, freeing hundreds of millions of Eastern Europeans from Soviet drudgery and pushing them into competitive markets, where many have thrived and others have struggled. Within a few years of the Berlin Wall’s crumbling, Czech and Bulgarian versions of New Ideas from Dead Economists appeared, as newly freed minds searched to understand a market economy. Second, the Japanese economy transformed itself from a threatening giant in the late 1980s into a humbled midget in the 1990s. The key Tokyo stock market, which climbed to 39,000 in 1989, collapsed and stood at just 17,000 in 2007. What happened to all of those stories of superior Japanese management techniques? Third, China emerged as a powerhouse in world trade, its factories churning out more goods than any other country except the U.S. and Japan. This from a nation whose GDP barely showed up on a chart in the 1970s.
The Berlin Wall

As the Soviet Union and the U.S. waged the Cold War, intercontinental ballistic missiles were poised and aimed at each other, ready to destroy humanity. Most geopolitical strategists believed that a standoff, that is, a “stable Cold War” was a good outcome that could, hopefully, be extended well into the twenty-first century. Not even Ronald Reagan, surely the most optimistic Cold Warrior, thought that the Soviet empire would crumble as swiftly and peacefully as it did after 1989. Many of his advisors and almost all of his opponents urged caution. When Reagan implored then Soviet leader Mikhail Gorbachev to “tear down this Wall!” State Department “experts” objected to the forceful yet fanciful dare. Why rile the Soviet bear and ask for an impossible task? It turned out that the bear was not so strong and the task not so far-fetched. Only a few years later, East Berliners and West Berliners took picks and hammers to the Wall in all-night celebrations while their radios blared the youthful, uplifting tunes of American rock and roll. Similar rejoicing took place in Warsaw, Prague, and Budapest.

Under German Chancellor Helmut Kohl’s bold leadership, West Germany adopted East Germany, supporting its population with generous financial gifts. Today, residents of eastern Germany still earn less money than their countryman cousins, but they are surely adapting to Western capitalist ways. The Polish, Czech, and Hungarian economies have also struggled to transform themselves. Despite economic turbulence, democratic elections have continued to reinforce a pro-market approach and bury Soviet ideology. Even when former communist officials win parliamentary seats, they generally support market reforms. During a recent visit to Gdansk—home of the Solidarity movement that brought down communism in Poland—I was impressed by the entrepreneurial energy of young Poles, who had opened up shops throughout the medieval Baltic port city. Prague and Budapest and Tallinn, Estonia, also bustle in living color, rather than the drab grays of the communist era.

In Russia, the path has been very bumpy. In 1998, Russia looked economically defunct, as the ruble lost most of its value and panicked sellers hammered the Russian stock market into rubble. Foreign investors who held Russian bonds could use them for wallpaper. Why did Russia’s capitalist experiment fail? A not-so-funny thing happened on the way to the free market: the country took a dangerous detour into “crony” capitalism, in which former communist bosses exploited their connections, twisting former state monopolies into private monopolies that they continued to control. Managers of mines made themselves fortunes by smuggling precious metals out of the country by rail, truck, and even tucked in the pockets of trenchcoats. The iron hand of the Soviet police lost its grip, and the new democratic Russia had only a flimsy legal system to deal with crime and settle business disputes. Moscow’s fancy clubs, populated by newly rich racketeers, more closely resembled Chicago under Al Capone than a developing country. Billionaire barons set up their own private security forces. Moreover, President Boris Yeltsin’s government could not figure out how to force these barons to pay taxes. Thus, the Russian government ran up a huge budget deficit, forcing it to borrow money from foreigners by selling them bonds. After a frenzied
bubble of stock market gains in 1996-97, the country looked corrupt, bankrupt, and ready to erupt. So Russians and foreigners snuck their money out of the country, erasing the modest wealth built up by a new middle class.

Is there a lesson here, or just a depressing tale? Russia’s 1998 debacle teaches us that a market economy must rest on a dependable legal system. A free market does not mean utter chaos; it requires ground rules. Without courts to enforce contracts, police to punish mafiosos, and agencies to collect taxes, Russia’s detour into crony capitalism was a voyage of the doomed. In the West, they say that justice is blind. Russia’s problem was that she was blind to justice. Of course, Russia has failed before. The entire twentieth century was an economic failure. Visiting regal old cities like St. Petersburg and Odessa (in Ukraine) and witnessing breathtaking nineteenth-century architecture and stunning opera houses teaches one that the problem with communism was not that it couldn’t keep up with capitalism; the problem was it couldn’t even keep up with the standards of 1917. Let’s hope for a new Russian revolution in the twenty-first century, a revolution that finds a place both for economic liberty and for the rule of law.

Japan: Land of the Setting Sun?

When I wrote the first edition of New Ideas from Dead Economists, scholars and journalists were crowning Japan as the king of the world economy. Books with titles such as Yen! Japan’s New Financial Empire and Its Threat to America and Trading Places: How We Are Giving Our Future to Japan painted a picture in which Japan would take over the world and Americans would be reduced to flipping hamburgers in order to make ends meet. Japanese speculators collected Van Goghs, Monets, and golf course memberships as if they were souvenir tokens. They bought up downtown Los Angeles and the best properties in Hawaii. Their banks dominated the financial industry, and analysts calculated that the land beneath the Imperial Palace in Tokyo was worth more than all the land in California. A prominent Japanese politician wrote a best-selling book condemning U.S. hegemony, called The Japan That Can Say No. How the mighty have fallen! Japanese investors turned out to have a reverse Midas touch, turning precious assets into worthless trinkets. Along with a devastating slide in the Tokyo stock market, the price of Impressionist paintings sank along with Hawaiian real estate. Their investments in movie studios left them with staggering losses, as slick Hollywood producers ripped them off. Back in Japan, arrogance turned to humility and fear, as property prices and incomes dropped. In 1998, interest rates fell to zero, meaning that you could borrow money from the government for free! The only thing that rose was the jobless rate.

What happened? The quick answer is that in 1989 the Japanese central bank jacked up interest rates to deliberately pop a bubble in the stock market. But that does not explain a nearly ten-year plunge. Two culprits come to mind. First, the Japanese government encouraged its premier corporations to dominate the manufacturing sector, while the
United States was shifting toward service industries like finance and health care. Though Japanese banks dominated the world in size, they lagged way behind in profitability and sophistication. Most of the new financial products, from stock index funds to complex derivatives, were made in the United States or England. Why didn’t Japan develop these ideas? They faced little competitive pressure at home. The Ministry of Finance protected the insurance companies from the savings banks and the savings banks from the corporate banks. Whereas in the United States these industries faced ferocious competition from each other, the Japanese government created fiefdoms, safe behind bureaucratic walls. The ministry basically forced households to pour their money into pitifully low-yielding bank accounts, giving firms a captive audience. Adam Smith would have seen it coming. By keeping their home turf sedate, they imperiled their ability to fight in the real world.

Japan looked feeble in information technologies, too. When a Japanese friend of mine first encountered the Internet and noticed that almost all websites were in English, he shook his head and said, “We’re toast.” Although Japan successfully won market share in manufactured goods like electronics, they found their prices undercut by South Korean and Malaysian factories. Soon they gave up the fight and closed down Japanese factories and opened up cheaper ones in China. The concept of “lifetime employment” died, deflating the confidence of working men and women. Japanese commentators called the phenomenon the “doughnut” economy, as the economy turned hollow.

These structural flaws came along with incompetent fiscal and monetary policy. Essentially, the Bank of Japan waited too long before cutting interest rates, and the Ministry of Finance actually pushed up tax rates in the middle of a recession. John Maynard Keynes (see chapter IX) taught the world during the Great Depression that you shouldn’t punish consumers when the economy is going down the drain. The message apparently did not make it into Japanese until recently, though New Ideas from Dead Economists has been available there since 1991!

**China Awakens and Roars**

China’s emergence since 1990 looks awesome and a little frightening as it gallops along at a pace of 10 percent GDP growth each year. If you read the financial press, you will hear that nearly every hiccup in the world economy may be blamed on China. High oil prices? China must be hoarding. Low interest rates? China must be snapping up too many U.S. Treasury notes. Fewer manufacturing jobs? China must be stealing them. True, China is a mammoth force in the global economy today, especially considering that the country was an economic invalid just twenty-five years ago. In chapter VI on Karl Marx, we will see how Deng Xiaoping dismissed Maoism and sent his people scurrying not for copies of Mao’s Little Red Book of communist quotations, but for copies of Harvard’s crimson MBA manual. Despite China’s current triumphs in world trade, the next ten years will pose extreme challenges. China will hit a demographic wall when it has to support more senior citizens
Attitude Over Latitude

Most people, including many professional economists, think about a country’s economy like a potential homebuyer thinks about a model home. It’s awfully hot in Costa Rica! How lucky that Venezuela has oil! Too bad Australia is so far away from the action! The cliché “location, location, location” might work well for buying a three-bedroom colonial in Peoria, but it’s hardly worth a hill of beans when analyzing a country. Take Mexico, please. Mexico has enjoyed a great location, right on the U.S. border. It hasn’t moved. Yet America’s wealth and technology have not rubbed off much. Now look at prosperous Australia—a twelve-hour flight even after you change planes at LAX! And settled by criminals who sailed on leaky boats!

Economic textbooks spend a lot of time focusing on “factor endowments,” telling us that a country blessed with lots of minerals and natural resources has a big advantage. Really? Hong Kong is a pile of rocks. The Netherlands was a sinking Venice but without the charming bridges or the spumoni, and yet in the seventeenth century she leapfrogged her better endowed neighbors. And then there’s Israel today. She may be settled by God’s chosen people, but He chose not to give them a drop of oil, while gushers spout across Arabia. Read Mark Twain’s description of the arid and empty land. Israel’s terrain doesn’t naturally grow enough green for a sprig of parsley on your dinner plate, and yet there she blooms. In the race for economic development, would you rather bet on a country with a million tons of endowed zinc or one with a couple extra IQ points and a free flow of ideas?

A big endowment of riches may even be a curse. The earth under many parts of Africa bulges with metals. And yet the economies are retarded, as oligarchs hang on to power, preventing capital from diffusing through society. Think back to the schoolbook atlases that displayed the natural resources of each country. As a kid, I always thought it unfair that the evil Soviet Union seemed to have all the great stuff, even bauxite, which sounded like a mysterious, earthly version of krytonite, a bad thing in an enemy’s arsenal. But the Soviet system had a reverse Midas touch, too. It turned precious metals and rich soil into famine and poverty. Way back in 1500, when Yuan dynasty vases were being baked, the Chinese had all the technology they needed to beat England to the Industrial Revolution. But the mandarins of the time stomped on trade and financial flows. Because leftists refused to believe that “attitude beats latitude,” they felt sorry for and made excuses for the Soviet
Union’s seventy years of bad weather. As Ronald Reagan put it, there are just four things wrong with communist farming: “spring, summer, winter and fall.”

What counts most, then? Attitude, not latitude. And the best indication of a country’s attitude may be the wisdom it gleans from the great economists.

The history of economic thought teaches us that success often goes to the hungry, the humble, and the limber. And that is what you will learn in the pages ahead.

The 1990s gave us plenty of new opportunities to test the wisdom and assess the musings of the great economists. And now the twenty-first century is delivering its own challenges—and the ideas of the dead economists will be there to help.

San Diego, Calif. January 2007
Acknowledgments

This book explains modern economic theories by exploring the lives and ideas of the greatest economists. Because many of the economic problems of our day also challenged our forefathers, the echoes of Adam Smith and his descendants still speak to us today. To provide a better understanding of their theories, I have used contemporary examples that I hope the reader will find entertaining as well as illuminating.

As any economics student learns the first day, economics is about scarcity and choice. I have chosen to omit many brilliant economists and to focus on the Anglo-American tradition. Thus, Walras, Jevons, Menger, and others receive less attention than they would in a lengthier book. I can only hope that the reader is inspired to pursue these individuals in other texts. To paraphrase Bacon, I aim not to inform ad tedium, but to stimulate the mind briefly yet fruitfully.

I want to apologize to those economists mentioned in this book who are living today. The title, New Ideas from Dead Economists, is not meant to refer to them, their personalities, or their public speaking abilities—although I cannot be held responsible for resemblances. They should take comfort in the honor of being mentioned alongside Smith, Ricardo, Keynes, and others.

I would like to thank a number of individuals and institutions for stimulating my mind and energies. Martin Feldstein and Lawrence Lindsey encouraged this project and asked Harvard students to read a first draft. My students at Harvard listened to numerous digressions on the history of economic thought. Ronald Coase and Milton Friedman provided helpful comments on Alfred Marshall. Not only was Friedman one of the century’s greatest economists but he was extraordinarily generous with his time. Geoffrey Meeks of Cambridge University and Sir Harry Hinsley, past master of St. John’s College, Cambridge, allowed me to wander and ponder the same cloisters of Cambridge, frequented by so many of the heroes in this book. Before writing chapters on Malthus, Marshall, and Keynes, I searched among the medieval courts and halls for memories and mementos of these individuals, and their legacy spurred me onward. I also thank Michael Mookr and Douglas Sturm of Bucknell University, who sparked my interest in economic history and the history of intellectual thought.

Of course the views expressed in this book are my own and not those of any employer, past or present.

Finally, I thank my family, whose support and good humor gave me hope that I would find a few lessons and a few laughs among the “dismal” scientists. And perhaps the economists wouldn’t have been so dismal had they known my cheerful and loving wife, Debby, to whom I dedicate this book.
CHAPTER I

Introduction: The Plight of the Economist

It’s not easy being an economist. Corporate executives attack them for not calculating costs and benefits with enough precision. Altruists accuse them of being too fussy about costs and benefits. To politicians, economists are party poopers who won’t let them promise prosperity without sacrifice. Some of the Wittiest writers have taken time out to insult them, including George Bernard Shaw and Thomas Carlyle. Indeed, it’s been open season on economists ever since Carlyle called economics the “dismal science.”

Economists feel wrongly accused, however, for they are usually not the cause of bad news but simply the messengers. And the message is simple: Human beings must make difficult choices. We are no longer in Eden. The world does not flow with milk and honey. We have to choose among cleaner air and faster cars, bigger houses and bigger parks, more work and more play. Economists do not tell us that any of these is bad. They only tell us that we cannot necessarily have them all—all at once. Economics is the study of choice. It does not tell us what to choose. It only helps us understand the consequences of our choices.

The great economists, of course, were not content to be merely messengers. Though they have been ridiculed with irreverent epithets—Smith the bumbler, Mill the egghead, Keynes the bon vivant, and so on—they cannot be disparaged for their motives. It is ironic that economists themselves receive so much virulent criticism in our day, for as Keynes noted, most of the eminent practitioners started as do-gooders, searching for ways to improve the world. Alfred Marshall in particular saw economics as a profession that should blend shrewd science with a devotion to people. Whereas the medieval world saw three grand professions—medicine aimed at physical health, law aimed at political health, and theology aimed at spiritual health—Marshall hoped to make economics the fourth noble vocation, aimed at better material health not just for the rich but for all. Marshall tried valiantly to mediate between two powerful, regrettable strands: a trend toward arid mathematical economics without practical application and a trend toward sheer emotional radicalism without careful theoretical reflection. The curriculum he fought to establish at Cambridge drew together the most scientific minds with the most passionate. Keynes was, of course, the most stellar result.

The strongest link between economics and the real world has always been politics. Indeed, until this century economics was called “political economy.” Almost all of the stellar economists served at some level of government. Two of them, David Ricardo and John Stuart Mill, won election to the British Parliament. Among the greatest economists we consistently see not just a spark of scientific interest, but a surge of passion. Among the numerous symbols of calculus and statistics we see bold exclamation points.
Throughout the history of economic thought we see confrontations and sometimes cooperation between government and economists. Modern economics received its initial push when Adam Smith denounced the incestuous marriage between the monarchies and the merchants of Europe. One of the few things Adam Smith, Karl Marx, and Thorstein Veblen had in common was their realization that businessmen love to use politics in order to help themselves. In a famous statement, Smith warned that businessmen seldom meet without plotting against the consumer. You can be sure that even today, the orator at the local Chamber of Commerce meeting who exalts the free market would jump at the chance of securing a monopoly, an exclusive government contract, or a regulation that guarantees his profits. Thankfully politicians have not always been obliging. After World War II, Great Britain’s socialist leaders promised prosperity and near paradise through unionism and nationalization, but instead the British economy only got worse and worse. One of Winston Churchill’s biographers tells the story of Churchill meeting the leader of the Labour Party in the men’s room outside the House of Commons. The Labour leader entered first and took up a standing position. Churchill entered a moment later on the same mission and, seeing his opponent, stood all the way at the other end of the row. “Feeling standoffish today, are we, Winston?” the Labour leader asked. “That’s right,” barked Churchill. “Why, every time you see something big, you want to nationalize it!”

Most of our presidents have shown little grasp of economic principles. John F. Kennedy once admitted that the only way he could remember that the Federal Reserve Board controlled monetary policy, not fiscal policy, was that Chairman William McChesney Martin’s name began with the letter “M.” Apparently, Kennedy couldn’t have appointed a Volcker or Greenspan to the post.

Election campaigns are the most trying time for economists. Whenever a politician promises his or her constituents more margarine and more munitions, economists must warn of the calamitous consequences. Any progress that economists make in raising economic literacy can be wiped out in a second by the pie-in-the-sky ravings of a candidate. An election-year speech is the political equivalent of prime-time television. When a presidential candidate appears on television, he cannot allow himself to appear any more sophisticated than Jed Clampett of “The Beverly Hillbillies.” Of course, for some politicians, this is not a great challenge.

It is not hard to see why politicians misunderstand their economic advisers. Economists speak a different language to each other than they do to the public. They speak the language of models. In their attempt to explain a complex world, they must first simplify out those few factors at any given time that are most important, for every economic phenomenon may be affected by thousands of events. For example, the level of a consumer’s spending in the United States may depend on some of the following: weather, musical tastes, weight, income, inflation, political campaigns, and the performance of U.S. Olympic teams. To isolate and rank which are most important, economists must design
models that exempt some of the infinite number of possible causes. The best economists are those who design the most durable, robust models.

Of course, all scientists must construct models. For years physics rested on a Newtonian model of gravity. Astronomers still use a Copernican paradigm. Thomas Kuhn’s classic and controversial The Structure of Scientific Revolutions traces the development of these models. So why is economics more difficult than these “hard” sciences? An example may help here. Imagine a surgeon operating on a kidney. After inspecting an X-ray report, the surgeon knows that the patient’s right kidney lies one inch below the colon. Imagine, however, that as the surgeon makes an incision, the kidney changes position. In just this way, as an economist isolates causes and estimates their influence, the degree of influence changes. As human relationships and social institutions change, so does the subject of our scientific inquiry. Economics may not be a “hard” science. But that does not mean it is an easy science. Because it is so fluid, it is hard to hold in place and to study. No wonder Lord Keynes insisted that the master economist fulfill a set of attributes more extraordinary than those needed for knighthood or even sainthood:

He must be mathematician, historian, statesman, philosopher. . . . He must understand symbols and speak in words. He must contemplate the particular in terms of the general, and touch abstract and concrete in the same flight of thought. He must study the present in the light of the past for the purposes of the future. No part of man’s nature or his institutions must lie entirely outside his regard. He must be purposeful and disinterested in a simultaneous mood; as aloof and incorruptible as an artist, yet sometimes as near the earth as a politician.

**The Genesis of Economics**

Where shall we start in studying the history of economic thought? We could start with the Bible, which contains many statements on land, labor, and capital. But the Bible presents more commandments than careful analyses. Although Adam Smith got his name and his moral posture from the Bible, it provided little inspiration for his economic theorizing.

We could also explore Aristotle’s articulate remarks praising private property and denouncing the accumulation of wealth for wealth’s sake. But Aristotle knew just enough about economics to know that time was a scarce resource. Therefore, he devoted more of his time to philosophy and to educating Alexander the Great than he did to economic theory. It shows. Aristotle remains one of the giants of philosophy, but at the risk of insulting ardent fans of college courses on Western civilization, we must admit that Aristotle left few marks in the annals of economic discipline.

In the Middle Ages theologians debated economic issues. The Catholic Schoolmen struggled over questions of justice and morality in the marketplace. In particular, they
devised the doctrine of the “just price” and refined the Church view of usury. Whereas the Old Testament specifically forbade lending at interest to members of the same community, medieval theologians tried to separate the different components of interest such as risk, opportunity cost, inflation, and inconvenience in order to perforate the solid prohibition and permit loopholes. The theologians faced excruciating choices. If they continued to deliver orthodox Biblical interpretations that challenged commercial activities, the Schoolmen would lose their relevance, because many people were willing to take their chances with divine retribution. On the other hand, if the theologians simply condoned commercialism in all its forms, they would lose credibility as Church leaders. They devised most of their economic theories while straddling the secular and the sacred. This is neither a comfortable position nor one terribly conducive to studying economics. They spoke on economics because it was a duty to their flock. But the duty was to guide the flock to Heaven, not to a higher standard of living. When Protestants split the flock, the task grew even less manageable.6

We cannot sprint so swiftly past the mercantilists. Generally speaking, they were a group of writers and courtly advisers to European monarchs during the sixteenth through the eighteenth centuries. They did not share a common “good book,” and they certainly had different interests. As royal families of England, France, Spain, Portugal, and Holland consolidated their boundaries and battled for colonies across the seas, lawyers and merchants began advising kings and queens on how to manage their economies.

In retrospect, we can list several tenets often found in their recommendations: First, a nation should keep its house in order by awarding monopolies, patents, subsidies, and privileges to loyal subjects of the crown. Second, a nation should pursue colonies for the purpose of extracting precious metals and raw materials, which were good measures of national wealth, for they could pay for wars of conquest. Third, a nation should restrict its foreign trade so that it exported more finished goods than it imported. A consistently positive balance of trade would bring in gold (wealth) from debtor nations.

Thus under mercantilism, we see nations expanding their borders. At the same time, however, we see a tightened control over the internal economy, as guilds, monopolies, and tariffs distribute economic power to political favorites. In some nations the control extended further than in others. Finance Minister Jean-Baptiste Colbert thoroughly regulated the manufacture of many goods during the reign of Louis XIV and bestowed great authority to the guilds. In a stunning display of imperial power, he once announced that fabric from Dijon would contain 1,408 threads!

The mercantilists provided the perfect target for Adam Smith, with whom it seems reasonable to start our study of modern economic thought. He excoriated their theories on several levels. First, they measured wealth on the basis of coin and precious metals, while Smith believed that real wealth should be gauged by the standard of living of households. Bags of gold do not necessarily translate into bags of food. Second, he said that wealth must
be measured from the viewpoint of a nation’s consumers. Tactics that placed money in the 
hands of prime ministers or sycophantic merchants did not necessarily help the citizens of a 
nation. Third, Smith knew that individual motivation, invention, and innovation inspire an 
economy to greater prosperity. By bestowing gifts of monopoly and protection, mercantilist 
policies paralyzed the body politic. Thus began modern economics.

**Should We Ignore the Economist?**

Since the days of Adam Smith, we have produced few master economists. Mainstream 
economic theory does not explain everything. In particular, economists today have a 
difficult time explaining the labor market and the drop in productivity growth from the early 
1970s through the early 1990s. Yet economists agree on enough to say that countries and 
individuals take foolish risks in ignoring the basic tenets of economic theory. The nation that 
raises trade barriers in an atavistic yearning for stable, mercantile times hurts its own 
consumers. The nation that keeps farm prices high hurts its own consumers and finds itself 
with a surplus of grain rotting in silos. On these two points few economists would disagree. 
Yet too few politicians in the world will listen.

Even if governments do not always take the advice of economists, we can look to 
economists to tell us where our standard of living has been and where it may be going. Ever 
since the Industrial Revolution sparked England, Americans have always looked forward to 
getting bigger and better. We see the present as the minimum. Yet history provides no 
precedent for continual progress. Every year that the industrialized nations avoid a new dark 
age, we set a record for humankind. Listen to the words of Georges Duby as he describes 
Europe in the eleventh century. It is frightening to think that these horrible decades came 
after and not before the relative affluence of ancient Greece, Rome, Babylon, and Egypt:

... the Western world in the year 1000. A wild world, ringed round by hunger. Its meager 
population is in fact too large. The people struggle almost bare-handed, slaves to intractable 
nature and to a soil that is unproductive because it is poorly worked. No peasant, when he 
sows one grain of wheat, expects to harvest more than three—if it is not too bad a year; 
that means bread to eat until Easter time. Then he will have to manage on herbs, roots, the 
makeshift food that can be gleaned from forest and riverbank and, on an empty belly, he 
will do the heavy summer tasks and wither with fatigue while he awaits the harvest ... 
Sometimes, when too heavy rains have soaked into the ground and hampered the autumn 
ploughing, when storms have pummeled and spoiled the crops, the customary food 
shortage becomes a famine, a great death-dealing wave of starvation. The chroniclers of the 
times all described such famines, not without a certain satisfaction. “People pursued one 
another in order to eat each other up, and many cut the throats of their fellow men so as to 
feed on human flesh, just like wolves.”

Will the developed world ever know such horrors? Will it ever slip back into the 
frightening state of some of its Third World neighbors? Not even the master economist of
Keynes’ most fantastic dreams would know. We do know that the goal of the great economists was to teach us to avoid such a dark abyss.

It is striking that so many of the lessons of the great economists still speak to us. Each of their wisest theories has a practical point or analogy today. This book seeks their wisdom by looking at mainstream economics and asking, Who first had these insights and built these durable models? We can learn from the masters. Some of the contemporary examples in this book are meant to be humorous. David Ricardo did not have access to the cast of “Gilligan’s Island” to explain the Theory of Comparative Advantage. But to do so, I hope, does no disrespect and provides some help in understanding the difficult paradigm. Economics need not be dull. Why not have the last laugh on Carlyle by using the dead economists themselves to reverse their bad reputations and to teach the lessons they left to us? Better the ghosts of economists past roll over in their graves in laughter than toss and turn, disappointed that we forgot their work and fearful that we will drive ourselves back to the eleventh century.
CHAPTER II

The Second Coming of Adam Smith

When Ronald Reagan won the 1980 presidential election, conservative supporters in Washington rejoiced. At cocktail parties and meetings they congratulated one another and looked so forward to prosperity under “Reaganomics.” They also noticed that they were wearing the same neckties, which featured the profile of Adam Smith.

Why were politicians and activists who prided themselves on patriotism parading the profile of an eighteenth-century Scotsman? Why not Theodore Roosevelt, Thomas Jefferson, or even Barry Goldwater? Could Adam Smith really be more relevant to contemporary economic crises than the thousands of economists and political leaders who had followed?

Adam Smith believed that his ideas would be relevant forever. This was a common trait of intellectuals in the eighteenth century, a truly revolutionary age. Political ferment began to bubble in France and America. By the time Smith wrote his greatest work, The Wealth of Nations, merchants were trading within the British Isles and across the seven seas, population was expanding, merchants were organizing small factories, and banking systems were spreading throughout Britain and the Continent. But the most powerful and profound revolution of the Enlightenment was caused by thinkers probing for new explanations of the world around them. No wonder Smith once proclaimed in his lectures: “Man is an anxious animal.”

From the Middle Ages until roughly the time of Columbus, theologians had dominated European intellectual thought. Church elders interpreted natural phenomena in accordance with religious doctrine. But in the century leading to Smith’s birth, more and more people began following the bold paths of Francis Bacon and Nicolaus Copernicus in searching for rational explanations for natural events. Eventually, scientists emerged independent of ruling churches, applying the “scientific method” for laws of nature regardless of controversial conclusions.

Galileo Galilei attacked the religious cliché that God gave man only two books, the Bible and nature. Claiming that the language of the book of nature was mathematics, Galileo proved by mathematics and experiment, without the help of holy scriptures, his law of falling bodies. Galileo knew he was treading on treacherous ground and tried to avoid condemnation. Fearful when, in 1632, his telescope experiments confirmed Copernicus’ heresy that the earth revolved around the sun, he dedicated his findings to the pope. He was right about the earth. And he was right to fear the Church’s wrath, for a tribunal consequently condemned him.
Toward the end of his Discourse on Method (1637), René Descartes foreshadowed the explosion of thought in the eighteenth century by arguing that through practical science men can be the “masters and possessors of nature.”

The shining figure in the Enlightenment, though, was Isaac Newton. He pursued Galileo’s scientific quests, searching beyond religious texts for answers, which he revealed in his theory of gravity, laws of physical motion, and discovery of calculus. Newton seemed to portray God as a key player only at the beginning of time, as responsible for the world today as a pawnshop owner is after a pawned watch leaves the shop. The German philosopher Leibniz thought that Newton compounded the blasphemy by depicting God as a clumsy watch-maker.

Adam Smith was born into this movement. Like Galileo and Newton, Smith sought out cause-and-effect relationships. But instead of focusing his view on planets, he focused on people.

Born in 1723, Smith grew up with his mother in Kircaldy, a small port located across the Firth of Forth from Edinburgh. His father, a comptroller of customs, had died months before his birth. Smith himself never married.

Although it was not apparent from the Adam Smith neckties worn in Washington, Smith was an odd-looking Scotsman. He had a large nose, bulging eyes, a protruding lower lip, a nervous twitch, and a speech impediment. Smith once acknowledged his unusual features, saying: “I am a beau in nothing but my books.”

A good student, Smith entered the University of Glasgow at the age of fourteen and later accepted a scholarship to Balliol College, Oxford. Like most other college students of his day, Smith intended to study theology and enter the clergy. Like many college students of any day Smith complained about his teachers. He denounced the lecturers: “In the University of Oxford, the greater part of the public professors have, for these many years, given up altogether even the pretence of teaching.” More important, Smith lashed out at academic censorship and complained to friends that college officials had confiscated his copy of David Hume’s heralded Treatise on Human Nature. Although he was permitted to read all of the ancient Greek and Latin classics, Smith was forbidden from reading one of the most potent works of his own time.

Despite academic restrictions, Smith was so influenced by David Hume’s skepticism (A Theory of Human Nature is subtitled, “An Attempt to introduce the experimental method of Reasoning into moral subjects”) that he refused to continue preparing for the clergy. Instead, he returned to Kircaldy, where he later delivered popular public lectures on rhetoric and law.

In 1748, Smith returned to the University of Glasgow to teach logic. The next year he filled the chair in moral philosophy vacated by his former teacher Francis Hutcheson. A “campus
radical,” Hutcheson had stirred administrators by refusing to lecture in Latin. The Presbytery then prosecuted him for spreading the following “false and dangerous” doctrines:

1. The standard of moral good is promotion of happiness to others.

2. It is possible to know good and evil without knowing God.

As we will see, Smith had absorbed many of Hutcheson’s dangerous declarations. Hutcheson stood nobly for academic freedom in the face of ruling dogma. Unlike Galileo, Hutcheson did not try to avoid censure by dedicating his teachings to the pope, which, in any event, would not have done much good in Protestant Scotland.

It is interesting to note that Smith’s ideas are usually associated today with conservative politics, yet because his intellectual roots were rather radical, some contemporary conservatives feel a bit uneasy about Smith. Others, however, seek desperately to place his capitalist theories on the same altar as God, Mom, apple pie, and democracy.

Far from following the sleepy style of the Oxford dons he had assailed, Smith the professor quickly gained a reputation for lucid lectures and concern for his students. Though he lectured, tutored, and held informal discussions, Smith also found time to serve as the College Treasurer and later Dean of Faculty.

Smith never taught a course in economics. In fact, Smith never took a course in economics. Nobody did. Until the nineteenth century, academics considered economics a branch of philosophy. Not until 1903 did Cambridge University establish an economics program separate from the “moral sciences.” Nonetheless, Smith squeezed his preliminary thoughts on economics into lectures on jurisprudence. The following notes, taken by a student, point to the genesis of his key analysis of labor later elaborated in The Wealth of Nations:

“Division of labor is the great cause of the increase of public opulence, which is always proportioned to the industry of the people, and not to the quantity of gold and silver, as is foolishly imagined.”

So far we have discussed Smith’s education and his appearance but have avoided his personality quirks. It’s a touchy subject. Sigmund Freud observed that people have a tendency to puff up the status of their forefathers. He called this the “family romance.” Budding economists might be disappointed to discover that their forefather was not as intelligent as Newton, not as witty as Voltaire, and not as scandalous as Byron. In fact, despite the “family romance” tendency, economic historians admit that Smith was a bit of a bumbler.

Professional economists are now weary of the many stories of Smith acting absentmindedly. Nonetheless, these tales can still amuse the beginning scholar.
One day while the Rt. Honorable Charles Townshend was in Glasgow, Smith took him on a
tour of a tanning factory. While rhapsodizing on the merits of free trade, Smith walked right
into a huge, nauseous pool of goop. After workers dragged him out of the goop, stripped
him, and threw a blanket over him, Smith complained that he could never keep his life in
order.

On another day, Smith climbed out of bed and began to walk. And walk. And walk. Fifteen
miles later, the sound of church bells stirred him from sleep. The most famous economist of
his time was found running back to his house, nightgown flapping in the breeze.

Smith the Philosopher

Even before Smith wrote The Wealth of Nations, he gained fame in 1759 with his book on
ethical behavior, The Theory of Moral Sentiments. As sales burgeoned, he became known as
“Smith the philosopher.” A Theory of Moral Sentiments followed in the Enlightenment
tradition. Just as scientists searched for the origin of the solar system, Smith searched for
the origin of moral approval and disapproval.

How can a man who is interested chiefly in himself make moral judgments that satisfy
other people? After all, each person stands at the center of his own system, just as the sun
stands at the center of the planets. Does the sun care what the smaller planets think? Smith
struggled with this paradox, asking himself why, if people are selfish, each town does not
resemble the vicious state of nature the political theorist Thomas Hobbes portrayed in
Leviathan. Hobbes argued that man’s life is “solitary, poor, nasty, brutish, and short” until
governments emerge.

Finally, Smith concocted a clever answer. When people confront moral choices, he said,
they imagine an “impartial spectator” who carefully considers and advises them. Instead of
simply following their self-interest, they take the imaginary observer’s advice. In this way,
people decide on the basis of sympathy, not selfishness.

Many critics vilify modern economists for assuming only selfish motives, for caring only
about costs and benefits, and for ignoring man’s more noble side. The economist is, they
declare, a moral dwarf. The attack may apply to some—but not to Adam Smith. Not just
aware of sympathy and sentiment, he devoted the entire book to these emotions.
Furthermore, A Theory of Moral Sentiments pointed to many concepts developed by
Freudian psychoanalysis more than a century later. Freud’s concept of the “super-ego,” the
conscience that restrains humans from certain acts and makes them feel guilty when they
do not listen, is not so far removed from the adviser that Smith describes.

Smith’s reputation soared as his book spread throughout Britain and the Continent.
Wealthy students, whose parents heard of the Scotsman’s achievements, left their schools
in France, Switzerland, and Moscow to enroll at Glasgow. One imagines Smith in the
twentieth century, appearing on radio and television talk shows plugging his book. Given his chronic absentmindedness, he might have been an entertaining guest, especially appearing on late-night television in his nightgown. Smith certainly was not content to stay locked in an ivory tower. At Glasgow he mixed town and gown, meeting with bankers, merchants, and politicians. At the Political Economy Club he tried to figure out how businessmen really operated. As we will see, he learned not to trust the motives of merchants.

To France and Physiocrats

Soon, even cosmopolitan Glaswegian began to bore Smith, and he resigned his professorship in 1764 to become the tutor of the son of the late Duke of Buccleuch. The boy’s mother, Countess of Dalkeith, had just married Smith’s admirer Charles Townshend, who later emerged as Chancellor of the Exchequer and found his way into history books when his taxes sparked some colonists across the Atlantic to make a teapot of Boston harbor. This tutoring job involved touring Europe, helping the boy develop a proper polish, attending lavish balls, and accepting £300 per year plus expenses and a £300 per year pension (roughly twice his former income). Smith consulted his impartial adviser, who sympathetically approved. Forced by the offer to leave Glasgow in the middle of the term, Smith attempted to refund the fees he had collected from his devoted students. They refused.

The first and the most boring stop on the tour was Toulouse, France. Smith’s displeasure recalls the old vaudeville line about spending a week in Brooklyn one night. Smith would have been happier with one week in Brooklyn, for at least they speak a form of English there, whereas Smith could hardly speak French. Instead of a week they stayed a year and a half. Samuel Johnson once said that nothing concentrates a man’s mind so wonderfully than knowing he is to be hanged in a fortnight. Toulouse was not quite a scaffold, but it did inspire Smith to concentrate and write about economics. In a rather humble letter to Hume, he reported: “I have begun to write a book in order to pass away the time.”

After the south of France, the entourage moved on to Geneva, where Smith met Voltaire, and finally to Paris. Paris was bubbling with artistic and intellectual creativity. Smith enjoyed the theater, met exciting personalities, including Benjamin Franklin, and discovered a vibrant school of economics known as Physiocracy. Founded by François Quesnay, a court physician for Louis XV with friends in high places and a high opinion of himself, the Physiocrats presented some rather simple ideas in inscrutable language and a mysterious chart, called the Tableau économique. Quesnay gathered together obsequious disciples who called him master, father, “the Confucius of Europe,” and “the modern Socrates.” The Physiocrats vigorously advanced the Enlightenment quest for the laws of nature, but they did not believe that man could completely control nature—only that people could thrive if they understood its laws. In fact, Physiocracy means “rule of nature.”
The Tableau économique brilliantly illustrates Physiocratic thought. Just as medical doctors such as Claude Bernard began dissecting the human body and charting the path of blood, Quesnay charted the circulation of income in the economy. Instead of hands, feet, arms, and legs, Quesnay saw the body politic as three naturally interdependent classes: farmers, artisans, and proprietors (landlords and other sovereigns). Unfortunately, he so riddled the chart with zigzags that only he seemed to understand it. Quesnay admitted that even his chief disciple, Mirabeau the elder, was too “bogged down in the zigzag.”

Nonetheless, in sycophantic style Mirabeau praised the table as an invention as extraordinary as writing.

Physiocrats energetically argued two points: first, that wealth arose from production, not from acquisition of gold and silver, as mercantilists thought; second, that only agricultural enterprise produced wealth, whereas merchants, manufacturers, and other workers did not. On an economics exam they would score 50 percent correct. They rightly claimed that a nation that produces goods is wealthier than a nation that simply stockpiles precious metals, but they lose points by arguing that manufacturing, commerce, and service industries are “sterile,” unproductive, and mere shifters of wealth. Without zigging and zagging through the model, let us note that the Physiocrats advocated policies to make agriculture, the only productive sector, even more productive. For instance, they urged the government to release the economy from trade restrictions, which kept farm rents artificially low and discouraged investment in land. Further, they proposed taxes on landlords, not to punish them, but because only they could afford to pay, for only they owned a “productive” sector of the economy. In sum, the Physiocrats enthusiastically embraced the concept of private property and private gain, but saw concomitant responsibilities for owners. After all, their analysis insisted, it’s only “natural.”

Adam Smith listened attentively to the Frenchmen. Their analysis confirmed some of his ideas, but he did not accept their pronouncements on productive and sterile sectors. Nor did Hume, who asked a friend to “thunder them, and crush them, and pound them, and reduce them to dust and ashes.” Perhaps Smith’s impartial conscience restrained him from wishing pulverization. Physiocracy is, Smith admitted, “with all its imperfections,” perhaps “the nearest approximation to the truth that has yet been published upon the subject of political economy.” But, he added with some condescension, it is “a system, which never has done, and probably never will do any harm in any part of the world.” Thus, he gently patted the powdered wigs of the Physiocrats, who gave the world an innocuous doctrine.

In 1766, sorrow struck when the Duke’s ill younger brother died in Paris. Smith’s tour ended, and he returned to Kirkaldy via London. For the next ten years Smith worked on his book, traveled to the Literary Club in London to discuss ideas and hoist glasses with Edward Gibbon and Edmund Burke, and exchanged nasty vulgarities with Samuel Johnson and James Boswell. Despite Johnson’s vitriol, Smith received rave reviews from conversationalists whenever he visited Paris.
The Wealth of Nations

Finally, in March 1776, The Wealth of Nations, that book Smith wrote to pass away the time, was published. Smith’s hero Hume praised it loudly, but warned that popularity would come only slowly. For the first time Smith rejoiced in a Humean mistake. An instant success, the first edition sold out in six months.

But is it a good book? Not only is it a good book, it is a great one. With the hubris that goaded the gods into striking down Greek tragic heroes, Smith stared confidently at the world and delivered nine hundred pages of analysis, prophecy, fact, and fable—most of it clear, charming, and aimed at helping the reader to understand. The Wealth of Nations introduces readers to the world of philosophy, politics, and business, with the sharp, skeptical, yet ultimately optimistic Smith as a guide. Just when the Industrial Revolution explodes, Smith confidently points to every player, from farmer to friar to merchant to shipper, masterfully making sense of the social upheaval. Furthermore, Smith approaches economic policy without a biased brief for a particular party or class. No one could accuse him of sycophancy or insincerity. Though he finally endorses the rise of the bourgeoisie, he warns society not to naively succumb to bourgeois blandishments. In a way, the 1776 publication of The Wealth of Nations brought forth a declaration of independence for economists.

The full title reveals the key to Smith’s masterpiece: An Inquiry into the Nature and Causes of the Wealth of Nations. Notice that Smith focuses on a particular goal: to uncover causal laws that explain how to achieve wealth. The title alone places him in the Enlightenment tradition. The text confirms the suspicion by explaining the laws that guide “economic actors” and then drawing the implications of these behavioral laws for society. “Economic actors” may sound somewhat technical, but Smith simply means people, for everyone at some point in the day is an economic actor. And just as there could be no Hamlet without the Prince, Smith could construct no economics without understanding people. In this he follows the leads of Machiavelli and Hobbes, each of whom saw men as they were, not as they should be. Hobbes spoke of life as “but a motion of limb. . . . For what is the heart but a spring and the nerves but so many strings; and the joints but so many wheels giving motion to the whole body . . . ?” (original emphasis). Man is scrutable and peccable.

The important natural drives or “propensities” Smith discovers in human nature form the basis of his analysis and the foundation of classical economics. All humans want to live better than they do. Smith finds a “desire of bettering our condition, a desire which, though generally calm and dispassionate, comes with us from the womb, and never leaves us till we go to the grave.” Between the womb and the grave “there is scarce perhaps a single instant in which any man is so perfectly and completely satisfied with his situation, as to be without
any wish of alteration or improvement of any kind."¹⁰ Second, Smith points to "a certain propensity in human nature . . . to truck, barter, and exchange one thing for another . . . it is common to all men."¹¹

To increase the wealth of nations, Smith argues that society should exploit these natural drives. Government should not repress self-interested people, for self-interest is a rich natural resource. People would be fools and nations would be impoverished if they depended on charity and altruism. Smith states that man almost constantly needs help from others, but it is hoping in vain "to expect it from their benevolence only. He will be more likely to prevail if he can shew them that it is for their own advantage." In the most cited passage in the history of economic thought, Smith proclaims: "It is not from the benevolence of the butcher, the brewer, or the baker, that we expect our dinner, but from their regard to their own interest." ¹² Even those who enjoy slaughtering cattle, brewing beer, or baking cakes would not want to do it all day if they were not compensated. Smith never suggests that they are motivated only by self-interest; he simply states that self-interest motivates more powerfully and consistently than kindness, altruism, or martyrdom. Put succinctly: Society cannot rest its future on the noblest motives, but must use the strongest motives in the best possible way.

But if everyone charges ahead in his own direction, why does society not resemble anarchy, something like a complex highway intersection with broken traffic lights? Shouldn’t we hear a frightening crash when self-interests clash? If roads cannot be safe without a traffic authority designating who shall move, can a community survive without a central planning authority to decide who produces and what is produced?

Yes. Not only will it survive, but the community will thrive far more than any community with central planning. More surprising, it will surpass both in output and social harmony any economic system based on altruism. Smith had studied astronomy and embraced the idea of a natural harmony in the planets, even if each planet moved in its own orbit. People, he thought, could move in different paths yet harmonize and help each other—but not intentionally. In his classic statement, Smith announces that if all seek to promote their self-interest, the whole society prospers: “He . . . neither intends to promote the publick interest, nor knows how much he is promoting it . . . he intends only his own gain, and he is in this, as in many other cases, led by an invisible hand to promote an end which was no part of his intention.”¹³ That “invisible hand” becomes the transparent symbol of Adam Smith’s economics.

Yet Smith did not rest his argument on any apparition. The invisible hand merely symbolizes the true orchestrator of social harmony, the free market. Friedrich A. Hayek, one of the twentieth century’s most vigorous proponents of the free market, said that if the market system had not arisen naturally, it would have been proclaimed the greatest invention in human history. For market competition leads a self-interested person to wake up in the morning, look outside at the earth and produce from its raw materials, not what
he wants, but what others want. Not in the quantities he prefers, but in the quantities his neighbors prefer. Not at the price he dreams of charging, but at a price reflecting how much his neighbors value what he has done.

The Free Market at Work

Let us start with our self-interested neighbor John as an example. In contrast to Adam Smith, John wakes up in his own bed, rather than in the town square. While reading the newspaper, John admires the lovely wood sculpture of a vulture that hangs above his dining room table, as if ready to swoop down on table scraps. John really enjoyed carving the vulture. An idea strikes him: Why not sculpt more vultures and sell them? After all, the specially treated wood imported from Tasmania would only cost $50 per vulture, and he can sculpt one per week. He decides to sell the vultures for $200 each, since big profits could make him rich and bring him the things he dreams of, like big cars and riotous vacations in Acapulco. Most important, though, he loves sculpting.

He begins working and rents a shop, inviting neighbors and local art critics to a gala opening. They laugh. He cries. They think the vulture sculptures are hideous. He cries louder. No one buys. Finally, his mother offers $49 for one. He gives in—and goes out of business. The invisible hand gives a “thumbs up” approval. Why?

Instead of producing something his neighbors wanted, John produced what he wanted. Instead of charging a price they were willing to pay, John charged an exorbitant amount. But in John’s case, no one would pay him as much as it actually cost him to produce the vultures. Didn’t John have to charge more than his costs? No. The answer is not to charge more, but not to produce at all! Why should the invisible hand approve of John going out of business? To make the sculptures, John used up scarce resources. The earth only gives us so much to work with. If John used the valuable Tasmanian wood, no one else could. The invisible hand forces people to give up if they do not produce something more valuable than what they started with. John took $50 worth of wood, carved it up, and gave the world vultures worth less. Societies cannot afford to squander resources by subtracting from their value. People who take wood and produce Stradivarius violins or crutches for the disabled increase the value of those resources and enrich society. They deserve applause from the invisible hand. John deserved a punch.

Back to the drawing board for John. He pours a cup of tea, curses the vulture above his dining room table, and slams his fist down. Tea jumps out of the cup onto the table. Now he curses himself for spilling tea on the new table he made just a month ago. Inspiration strikes again. Why not, he asks, build tables and sell them? A bit wiser now, he finds a lumber mill that will supply wood to him at a cost of about $100 per table. Carving, planing, and fitting will take about two weeks per table. His time, he figures, is worth $200 per week, based on his previous job as a carpenter. Taking into account tools, rent, and other incidentals, he calculates the total cost per table at roughly $575. John window-shops for similar dining
room tables and discovers he could sell the tables for $585. Not only will he be able to pay himself $200 per week, but he will also earn a profit.

The invisible hand finally gives John a thumbs up. He’s taken scarce resources and brought forth something more valuable than what he started with—not according to his own tastes but according to society’s.

So far we have seen the invisible hand encourage and discourage production. But Adam Smith also shows us how the market regulates prices. Remember that Smith’s characters are self-interested. Why does John not raise his table prices above $585 to increase profits? He cannot. If John boosts his prices, profits will plunge, because people will simply bypass his shop and buy from competitors who charge less. Of course, all the furniture-makers could get together and agree to raise prices. But even if they were able to agree, other self-interested people would see the high profits in the furniture business and open shops. Such entrepreneurs could earn enormous profits by underselling and stealing business away from the cartel.

Prices and profits signal to entrepreneurs what to produce and what price to charge. High prices and high profits sound alarms in the ears of entrepreneurs, screaming at them to start producing a certain good. Low profits or losses grab the businessman by the shirt collar and shake him mercilessly until he stops producing.

Prices and profits are not simply abstractions, though. What does it really mean if profits are high? It means that people need or want a product. If consumers decide they like compact disc players more than record players, demand will rise for discs, and producers will be able to charge more. But record player manufacturers will respond to the signals by producing fewer record players and more disc players; workers will be shifted from one factory to another; and the price will return to normal. Over the past decade prices for personal computers and DVD players have dropped, not only because costs have dropped, but also because so many high-technology manufacturers have entered the competition for profits. In the long run no industry should earn more than a normal profit. The free market automatically induces self-interested Johns to satisfy strangers. No central planner need call, no taskmaster need coerce.

**Division of Labor**

Adam Smith delivered on his promise to show how the invisible hand regulates output, price, and profit. But the cheery Scotsman also promised to teach us what increases the wealth of nations. If he fails to answer that question, he scores no higher than the Physiocrats. Happily, he wins again with a neat three-word answer: division of labor. Smith argued his case logically and empirically. The empirics come to life as he describes a pin factory, again in one of the most famous passages in economic thought. Mark Twain said that classics are books everyone owns, but no one ever bothers to read. Even more sad,
classics often become rather boring clichés, and we can miss the force and drama they had when they originally appeared. Imagine the initial power of the following passage, for it appeared before factories were common and when groups of only three or four people produced most of the world’s goods:

A workman not educated to . . . the trade of the pin-maker . . . could scarce, perhaps, with his utmost industry, make one pin in a day, and certainly could not make twenty. But in the way which this business is now carried on, not only the whole work is a peculiar trade, but it is divided into a number of branches, of which the greater part are likewise peculiar trades. One man draws out the wire, another straightens it, a third cuts it, a fourth points it, a fifth grinds at the top for receiving the head; to make the head requires two or three distinct operations; to put it on, is a peculiar business, to whiten the pins is another; it is even a trade by itself to put them into the paper; and the important business of making a pin is, in this manner, divided into about eighteen distinct operations, which, in some manufactories, are all performed by distinct hands . . . I have seen a small manufactory of this kind where ten men only were employed, and where . . . each person . . . [averaged] four thousand eight hundred pins a day. But if they had all wrought separately and independently, and without any of them having been educated to this peculiar business, they certainly could not each of them make twenty, perhaps not one pin in a day.14

Just by specializing and dividing the tasks, one day’s output can explode by 400,000 percent! How can Smith possibly explain this? Are we about to be introduced to the invisible foot or another impartial ghost who actually works for us while we sleep? To be fair to Smith, he never promised a 400,000 percent leap in every situation. But he did proclaim three ways in which division of labor lifts output: First, each worker develops more skill and dexterity in her particular task. Second, workers waste less time changing from one task to another. This makes sense, especially if changing tasks forces one to change uniforms, tools, or location. Finally, specialized workers will more likely invent machinery to help with the particular task they focus on daily. Smith believed that workers, rather than engineers, often propel invention:

A great part of the machines made use of in those manufactures in which labour is most subdivided, were originally the inventions of common workmen, who, being each of them employed in some simple operation, naturally turned their thoughts toward finding out easier and readier methods of performing it. Whoever has been much accustomed to visit such manufactures, must frequently have been shewn very pretty machines, which were the inventions of such workmen.15

Notice that while Smith begins by praising division of labor for its heightened productivity, he ends up crediting division of labor for technological advancement.

From the mid-1970s until the late 1980s, when the Japanese stock market bubble burst, business consultants, economists, and business writers studied the Japanese factory in quest of the secret behind their successes. In some ways, Japanese workplaces appear less
divided and less Smithian, employing work circles rather than assembly lines. Yet Japanese businessmen claim that their workers invent and innovate much more than their American counterparts. The glorification of Japanese methods has inspired some emulation and a few fables, such as the tale of the Japanese, French, and American corporate executives, each sentenced to death. The executioner offers a final request. The Frenchman asks: “I’d like a bottle of cabernet sauvignon and a feast featuring escargot, pheasant, and crème brulée.” The Japanese responds: “I’d like to give a lecture on the merits of Japanese corporate management.” Finally, the American gives his last request: “Would you please kill me before the lecture on Japanese management?”

To spark efficiency, jobs should be divided by task, Smith submitted. But he warned that division of labor leads to a divergence in wage rates for different tasks. Smith’s complex hypotheses for wage rates preclude a neat and concise discussion. But he did give economic theorists cogent grounds for explaining why one group gets paid more than another:

1. A job may entail disagreeable conditions, and thus few accept employment unless wages compensate them (“compensating differentials”). A window washer at the top of the Empire State Building receives more than a woman who washes a Formica lunch counter. Of course, the window washer also gets a better view.

2. Some jobs require special training. Courtroom stenographers earn more than bailiffs.

3. An irregular or insecure job may pay more. Construction workers receive more per hour than other similarly trained laborers, because weather conditions prevent them from working as many hours.

4. When high degrees of trust are required, wages rise. Because lay persons cannot assess the value of a diamond, many people feel more comfortable buying from a pricey but trustworthy store like Tiffany’s than from a discounter.

5. When the probability of success is low, the payoff for success will be high. Lawyers in civil suits often accept cases on a contingency; that is, they get paid only if they win. But if they do win, they can earn even more than stenographers. Smith did not believe that all economic actors displayed perfect rationality. He suspected that people in risky professions overestimate their chances of success and, therefore, end up with lower incomes than they expect.

**Division of Labor Among Towns and Countries**

Smith never promised that division of labor alone brings wealth to a nation, of course. Free trade among manufacturers, suppliers, towns, and cities is also necessary. What good are 10,000 pins if they cannot be traded because of restrictions or high transportation costs? The manufacturer might as well make 20 or perhaps none. Furthermore, division of labor can take place among towns, not just among workers in a factory. Particular towns can
specialize, just as particular individuals can. Boise may produce wheat, while Boston produces computers. The point is, the wealth of a nation grows if markets expand; that is, if more and more areas are hooked up to trade routes.

Consider the United States in 1750. Trade routes along the Eastern seaboard delivered goods relatively smoothly from Baltimore to Boston, yet settlements west of Pennsylvania had to fend for themselves. A self-sufficient settlement is analogous to a pin worker who must cut, bend, attach, and deliver by himself. In the United States, as transportation routes over rivers and land developed and distribution costs shrunk, more and more towns could be brought into a common market, boosting the wealth of the individual communities and of the nation as a whole. In fact, as the maritime industry built safer ships and developed better navigational skills, it drove down shipping costs over the Atlantic, which invigorated the Colonies and Britain throughout the eighteenth century. Even the defeat of pirates contributed to the wealth of nations.

Emersonian self-reliance may be part of the American psyche, but the American pocketbook fatten ed in spite of it.

While pleading for free trade, Smith insisted that England would gain from trade if it could buy a good from another country for less than the cost of producing that good in England. The English might not like the French, but if a bottle of French white wine costs £1 and an English counterpart costs £2, England is foolish to produce wine. France has an “absolute advantage” in wine. Of course, if French wine costs twice as much as English wine, England is foolish to buy French wine. Smith’s point is well taken, for why should England waste scarce resources that could be used to produce wool at a lower cost than France, rather than grapes at a higher cost? According to Smith, nations should import only those products in which another country has an absolute advantage. (Keep Smith’s argument in mind, for David Ricardo shows true brilliance when he reform s it and persuades almost all economists thereafter that trade can enrich a nation, even when no other country produces more cheaply.)

Using his overcoat as an example, Adam Smith cited all of the varied and geographically divided laborers who together made it possible for him to stay warm: shepherds, wool-sorters, wool-combers, dyers, spinners, weavers, merchants, and sailors (presumably elements of his coat were imported). Most striking, none of these laborers had to know each other, know Smith, or know why Smith wanted a coat. All they needed to know was that the wage for shepherding or dyeing was high enough to make their labor worthwhile; that is, someone was willing to pay them for contributing to the final product. Hayek would take Smith’s argument further in an important article, pointing to the dispersion of information as one of the biggest obstacles for society. No central planner could possibly gather all of the information needed to decide whether society should produce a coat for Adam Smith; and even if he had all the information, it could change. But the market price
system tells individuals all they need to know. Hayek uses the example of tin in the following passage:

Assume that somewhere in the world a new opportunity for the use of... tin, has arisen, or that one of the sources of supply of tin has been eliminated. It does not matter for our purposes—and it is very significant that it does not matter—which of these two causes has made tin more scarce. All that the users of tin need to know is that some of the tin they used to consume is now more profitably employed elsewhere, and that in consequence they must economize tin. There is no need for the great majority of them even to know where the more urgent need has arisen. . . . If only some of them know directly of the new demand, and switch resources over to it, and if the people who are aware of the new gap thus created in turn fill it from still other sources, the effect will rapidly spread throughout the whole economic system and influence not only all the uses of tin, but also those of its substitutes and the substitutes of these substitutes, the supply of all the things made of tin, and their substitutes, and so on, and all this without the great majority of those instrumental in bringing about these substitutions knowing anything at all about the original cause of these changes.

A striking quotation from the philosopher Alfred North Whitehead emblazons that point: “It is a profoundly erroneous truism, repeated by all copy-books and by eminent people when they are making speeches, that we should cultivate the habit of thinking what we are doing. The precise opposite is the case. Civilization advances by extending the number of important operations which we can perform without thinking about them.”16 Through symbols and signals that we do not understand, we take advantage of the knowledge of others.

Hayek also applies his “ignorance” argument to attack the utopian hope of an economy based on complete altruism. An individual is the world’s foremost expert on what she wants. Nobody else knows better; nobody else can better judge the effects of alternative choices on her achieving what she wants. Therefore, people should look after their own interests. If all sought to do “the public good,” they would have to know as much about everyone else as themselves. Jill, a saintly woman, may love Jack, whom she has never met, but how does she know what he wants and how much he values what he wants? Suppose Jill and Jack are both altruists. Jill is selling her house. Since she loves Jack, she wants to sell the house to him for only $100,000. Since Jack loves Jill, he would not dare pay so little. He offers $200,000. She refuses and offers to accept $110,000. Insulted that she refuses his gift, Jack insists on $210,000. We do not know where this will end, which is precisely Hayek’s point. No market signals emerge, and society loses the ability to allocate scarce resources, because nobody admits how much they value the house. As Adam Smith put it: “By pursuing his own interest he frequently promotes that of the society more effectively than when he really intends to promote it. I have never known much good done by those affected to trade for the public good.”17
Hayek’s logic was influenced by his teacher Ludwig von Mises, who argued against socialism in 1920 on the grounds that no government could perform all the calculations needed to organize an efficient economy. Von Mises was the leader of the Austrian school of economics, which took a laissez-faire view and was very skeptical of mathematical models. Because von Mises believed that economic truths were self-evident and opposed models based on real data, his views fell out of favor until fairly recently. Today, neo-Austrians try to expand on his work and that of his Viennese teachers, Carl Menger and Eugen von Bohm-Bawerk.

Milton Friedman follows in the Smith/Hayek tradition. If you pick up a copy of his book Free to Choose, you will see a picture of Friedman on the front cover holding a pencil in his hand—not as a symbol of his writing labors, but as a symbol of Adam Smith’s economics. Friedman argues that no single person, not even a Nobel Prize winner, could make a pencil. With graphite from Sri Lanka, an eraser made from Indonesian rapeseed oil and sulfur chloride, wood from Oregon, and assembly in Wilkes-Barre, Pennsylvania, the pencil that costs only 10 cents is a product of the international market.

A Theme for the Common Man

Although Smith constantly praised free trade and the causes of merchants, he was not a hired gun of the bourgeoisie. The Wealth of Nations bristles with criticism of merchants. Nor is it a brief for the rich. Smith vigorously praised free trade and division of labor because he was convinced that they helped the common man even more than the prince:

[W]ithout the assistance and cooperation of many thousands, the very meanest person in a civilized country could not be provided. . . . Compared, indeed, with the more extravagant luxury of the great, his accommodation must no doubt appear extremely simple and easy; and yet it may be true, perhaps, that the accommodation of a European prince does not always so much exceed that of an industrious and frugal peasant, as the accommodation of the latter exceeds that of many an African king, the absolute master of the lives and liberties of ten thousand naked savages.18

As do his followers, Smith fondly suggests that under a market system, even the poor and the politically impotent can prosper. In contrast, under a centrally guided system, political power determines economic position: only the friends of the king and lords can grow rich. Again, Milton Friedman expanded on Smith’s point in his Capitalism and Freedom, arguing that the market system reduces effective racial or ethnic discrimination because consumers buy from whoever offers the best price, not from whoever offers the proper prayer or complexion; and on the other hand, he points out that under a socialist system, a member of a minority group must gain the political favor of a planner in order to advance.19

Friedman’s beliefs remain controversial, and critics have offered many counterexamples, suggesting for instance that corporate executives promote minority workers only if they score highly on such “soft” variables as “leadership ability” and “personality.” Furthermore,
critics insist that economic power can translate into political power through campaign contributions, leaving the economically poor without a political voice. Friedman accepts the latter point, but hurls it back at his critics by arguing for a smaller government that is barred from interfering in most economic events. The debates rage, and the literature expands.

Although Smith was confident that he had exposed the secrets to greater wealth, he was not driven to establish an infallible catechism. He readily admitted some faults in dividing labor, and again, he proved himself sensitive to more than costs and benefits. Recall that his first love was moral philosophy. A firm believer in the influence of physical conditions on the human mind, Smith feared that an assembly line could rob workers of their intelligence and spirit: “The man whose whole life is spent in performing a few simple operations, of which the effects too are perhaps, always the same . . . has no occasion to exert his understanding, or to exercise his invention in finding out expedients to removing difficulties. . . . He, naturally, therefore loses the habit of such exertion, and generally becomes as stupid and ignorant as it is possible for a human creature to become.” In one of his paternalistic moments, Smith recommended public education as a remedy for public dullness, because educated workers are more likely to invent and to exercise their minds while performing physical tasks. Said Smith: “For a very small expense the publick can facilitate, can encourage, and can even impose upon almost the whole body of the people, the necessity of acquiring those most essential parts of education.”

At this point, let’s summarize The Wealth of Nations. Adam Smith saw labor as the chief engine of economic growth, accelerating when: (1) labor supply increased, (2) labor subdivided, or (3) labor quality rose through new machines. As long as new ideas for profitable investment and invention continued to spring from imaginations and free exchange was permitted, economic growth would go forward. And most important, the general public could enjoy a higher standard of living. The Nobel Prize-winning economist Paul Samuelson, whose disagreements with Milton Friedman fill volumes, reexamined Adam Smith’s growth theories using modern mathematical techniques, finding that if “inventions keep recurring . . . profit rates and real wage rates average out above their subsistence levels.” Samuelson announced “the happy finding that Adam Smith comes through with flying colors from a modern post-mortem.”

Policies and Practice

Adam Smith was no ivory tower theorist. He wanted the world to follow his precepts, and he eagerly met with politicians and powerbrokers. He was thrilled when Prime Minister Pitt took his advice or Prime Minister Fox quoted him. He would have forgiven Fox for quoting famous passages without having read any of his works.

President Harry Truman once begged for a one-armed economist. Why? He was “damn tired” of economists who said “on the one hand, we could do . . . but on the other hand maybe.” Adam Smith had two hands, but he confidently pointed his finger at the best
policies for the polity to follow. He warned legislators that special interests would press hard against those measures that increase the wealth of nations. His warning should still resound in parliaments and congresses throughout the world. Smith’s free market approach to economics did not condemn him to the naive optimism of Voltaire’s Dr. Pangloss, who lives “in the best of all possible worlds” despite all the evidence surrounding him. On the other hand, he was not, as William Safire so alliteratively put it (through the lips of Spiro Agnew), a “nattering nabob of negativism.” Instead he recognized obstacles and showed how to avoid them. Let us look at several policy concerns.

Domestic Trade Restrictions. Recall the competitive market system described earlier, where entry into an industry forces prices and profits down to the cost of production plus a normal return on investment. Smith saw that sometimes merchants clearly took home exorbitant profits. Why did his model not work? Smith described two different scenarios that explain excess profits.

In the first case, entrepreneurs cannot enter the outrageously profitable industry simply because of natural phenomena. For example, only the land near Jerez, Spain, can grow the proper grapes for sherry. Enterprising Englishmen cannot grow grapevines for sherry around Buckingham Palace, even if the royal family volunteers to crush the grapes with their own royal feet. Thus, landowners in Jerez may enjoy high profits. Of course, entrepreneurs could try to persuade people to drink port instead, which would erase the exorbitant profits.

The second case Smith pointed to is more pernicious. Abnormal profits may persist when small groups of merchants join in pacts to keep prices high. “People of the same trade seldom meet together, even for merriment and diversion, but the conversation ends in a conspiracy against the public, or in some diversion to raise prices,” he wrote. According to Smith, devilish pacts among merchants are usually not strong enough by themselves. Therefore, the traders entice government to do the work of the devils. Conspiracies will usually not prevent market entry unless the government supports the cartel. Smith fired salvos at many contradictory restrictions that limited trade and the division of labor for the benefit of identifiable groups. Apprenticeship laws and guilds especially choked competition. Smith described one fatuous result: a coach-maker could not legally make wheels for his coaches, but a wheel-maker could make coaches to place on top of the four wheels he made! If wheel-makers could prohibit competition through law, they could charge high prices. Besides the Statute of Apprenticeship, Smith also disparaged the English Poor Law. To get relief, citizens had to fulfill residency requirements, which meant that they could not fluidly move from industry to industry or town to town as demand changed for different types of laborers. Smith viciously lashed out at monopolies granted by the government, which by “keeping the market constantly understocked, by never fully supplying the effectual demand, sell their commodities much above the natural price, and raise their . . . wages or profits.”
And how has Smith's fear of conspiracy been addressed on this side of the Atlantic? Since Theodore Roosevelt's trust-busting days, the United States has been more concerned with monopolies and oligopolies (a small group of firms that together dominate an industry) than with apprenticeship rules, which were never as common in America as in Europe. American economists and politicians feared that large corporations could protect themselves from competition and thereby rake in high profits. Thus, over the years the government dragged into court thousands of corporations, which kicked and screamed through their lawyers, and sued them for price-fixing and restraining competition under the Sherman Anti-Trust Act and the Clayton Act. Further, the Justice Department frequently tried to block corporate mergers. Throughout the 1970s, some economists and law professors, frequently the former students of University of Chicago dons Milton Friedman, George Stigler, and Richard Posner, contended that while price-fixing was evil, “bigness” through mergers may not be, for bigness does not necessarily prevent entry and may, in fact, foster efficiency.

Moreover, many contemporary scholars maintain that old-fashioned trustbusters look at the market too narrowly. Modern competition includes foreign corporations, not just domestic ones. As evidence, they can point to the failures of General Motors in the 1980s versus the victory of Hyundai, a Korean car that within months of landing on America's shores drove right through Detroit and left skid marks on GM's balance sheets. In the personal computer market, garage investors who formed corporations named after fruit challenged IBM and Honeywell behemoths. Ironically, Apple Computer began in Britain as a humble American import and grew into a powerful leader emulated by even humbler novices such as Apricot Computers.

In a remarkable commencement address at Stanford, Steve Jobs recalled dropping out of college on his way to challenging IBM: “I didn’t have a dorm room, so I slept on the floor in friends’ rooms. I returned Coke bottles for the five-cent deposits to buy food with, and I would walk the seven miles across town every Sunday night to get one good meal a week at the Hare Krishna temple. I loved it. And much of what I stumbled into by following my curiosity and intuition turned out to be priceless later on.”24 For more than thirty years, the Justice Department was attacking IBM. But it took a dropout like Steve Jobs, not starchy antitrust lawyers, to create more intense competition.

Under the influence of the “Chicago School” economists, the Reagan and Bush administrations obstructed far fewer mergers than its predecessors, for which it received much criticism. Instead, it attacked instances of price-fixing. Critics of the Chicago School claimed that price-fixing was merely a symptom of bigness, and that the mergers the Reagan administration permitted would soon generate cartels.

Few cartels have emerged, and in fact, the world economy is as ferociously competitive as ever. Some soft spots remain, though. In recent years, the hottest antitrust case was launched by the Justice Department against Microsoft. The government’s antitrust regulators argued that Microsoft’s monopoly on computer operating systems permitted it to
block competitors from getting their products in front of consumers. Many journalists analogize Microsoft founder Bill Gates to John D. Rockefeller, suggesting that by monopolizing the computer system, Gates can act as Standard Oil did by cornering the market in oil. Microsoft opponents cheered when one of the leading Chicago School thinkers, former judge and Yale professor Robert Bork, issued a brief attacking the monopolist. After dramatic video footage of Bill Gates, the world’s wealthiest man, fidgeting on the witness stand, Microsoft settled the case with the Department of Justice. Yet, to the regret of Microsoft’s opponents, the settlement did not force the company to rip out the guts of its software code, or prevent it from tying new programs to its Windows program. In fact, the settlement did little more than obligate Microsoft to “share” its interfaces with others. Quite often, while lawyers argue in court, new leaps in technology make courtroom solutions both obsolete and wasteful.

The greatest irony is already apparent, though. For a good part of the twentieth century many eminent economists such as Joan Robinson, Edward Chamberlin, and John Kenneth Galbraith pronounced that Adam Smith’s simple world of perfect competition grew less relevant as the years went by and corporations swelled. Yet many modern economists insist that because of international competition Adam Smith’s vision grows more radiant and relevant every day.26

International Trade Restrictions. “What is prudence in the conduct of every private family, can scarce be folly in that of a great kingdom,” Smith wrote.27 Having proved the theory of absolute advantage, he mercilessly blasted merchants who lobbied for, and governments that surrendered to, demands for protection from foreign producers. Through tariffs or quotas, the government forces consumers to subsidize merchants, because consumers pay higher prices than necessary. Without foreign competition, domestic merchants raise their prices and profits. The forces that fight free trade look “like an overgrown standing army . . . formidable to the government, and upon many occasions intimidate the legislature.” Smith lamented that officials who opposed free trade were rewarded with flattering publicity, while those who battled for the public interest received insults and infamous abuse.27

Contemporary analogies abound, but Ricardo’s improvement on Smith’s theory suggests that we postpone discussion. Still, even if we accept Smith’s basic theory, does he allow any exceptions to free trade? Yes, but not many. He pondered and rejected the “infant industry” argument, which asks for “temporary” tariffs just for the early years of development. Alexander Hamilton embraced the infant argument in the United States a few years later, and Japan would nurse an infant semiconductor industry two hundred years later. Smith doubted that government could ever gather the political will to remove the subsidies once the industry matured. The industry would learn to scream and cry like a baby despite its adult’s appetite. Or, in a new version of the argument, the industry will wheeze and drool as a senile corporate citizen demanding help against competition. The U.S. steel industry has clamored for protection on both grounds, first as a dotard and lately as a born-again infant.
But protection for steel can be particularly pernicious, because it drives up the prices of everything from dishwashers to dump trucks and impairs American exports of machinery.

In 2002, President Bush pulled the gates down in front of foreign steel exporters, slapping tariffs of 8 to 30 percent on their sales to the U.S. Auto and appliance makers quickly felt as if they were stuffed into a vise, as U.S. steel prices rocketed up by 30 to 50 percent, far beyond price levels in Japan and Europe. Cynics suggested that Bush enacted the tariffs to buy off steelworker voters in swing states like Ohio, West Virginia, and Pennsylvania. After the World Trade Organization ruled the tariffs illegal in 2003, Bush backtracked and scrapped the tariffs, but not before hurting the customers of American steelmakers and inciting the Europeans to threaten a boycott of Florida oranges.

Smith had little sympathy for tariffs as reprisals against another country’s protectionism, for a retaliatory tariff only erased more potential wealth from the world. Of course, a successful reprisal that persuades the original transgressor to roll back is tautologically good. But how does one know a priori whether or not the retaliatory tariff will incite a third tariff? The Great Depression of the 1930s surely deepened because nations erected high tariffs partly in retaliation for others. Smith snidely stated: “To judge whether such retaliations are likely to produce such an effect, does not, perhaps, belong so much to the science of a legislator . . . as to the skill of that insidious and crafty animal, vulgarly called a statesman or politician.”28 Although the United States clearly protects certain industries, politicians and economists often cite Japan as a flagrant violator of free trade.

Two reprisal techniques are worth mentioning. Since Japan allegedly protects through its inscrutable regulations, Harvard economist Henry Rosovsky has drolly suggested that Japanese imports enter the United States by way of customs agents in Boise, Idaho. Rosovsky would beef up the staff and extend their hours to nine to five, open every Monday, in months whose names end in “r.” In another case, John Connally, former governor of Texas, contended while campaigning for the Republican presidential nomination in 1980 that stronger measures were needed. He vulgarly suggested blocking Japanese imports into the United States, and telling them to “listen to their Sonys and sit in their Toyotas on the docks of Yokohama.” Connally, who spent millions on his campaign, received about the same number of votes in the United States as he would have in Yokohama.

Only occasionally Adam Smith’s free trade logic bowed to protectionist requests. For example, he allowed tariffs to counterbalance an internal tax on a domestic product. He also submitted to tariff pleas for national defense reasons by acknowledging that Britain’s safety demanded a healthy ship-building industry. Still, he maintained that such protection stunted “the growth of opulence.”

If government should not protect its industries, regulate labor, or distribute favors to merchants, what should it do? When would Smith release the manacles on the visible hand of government? Smith clearly defined the proper role for government: first, providing for
national defense; second, administering justice through a court system; third, maintaining public institutions and resources such as roads, canals, bridges, educational systems, and the dignity of the sovereign.

The Second Coming

The wearer of the Adam Smith necktie in 1980 generally believed in a limited national government, fewer social welfare programs, less government price regulation, and less federal intervention in and aid for local government affairs; the free market would provide most of what citizens require in life. When Ronald Reagan took office in 1981, his chief economic adviser reputedly joked: “Don’t just stand there. Deregulate something!” Though a trend toward deregulation began under the Carter Administration with the Airline Deregulation Act of 1978, Reagan accelerated the pace, leaving natural gas, oil, and airline prices to the direction of the invisible hand, while abandoning Carter’s wage and price guidelines.

Despite Reagan’s initial victories, the deregulatory effort faltered when mighty maritime, trucking, and construction interests began battling the administration. In 1983, the administration disbanded its Task Force on Regulatory Relief, chaired by then Vice President Bush. After the first Reagan term, deregulation forces found more to cheer about in Moscow than in Washington. The cable television industry, for example, found Congress regulating it, then deregulating it again, depending on how angry voters were with their cable rates. The banking industry, though, successfully fought for new freedoms to link up with securities firms, while the federal government stayed mostly on the sidelines as the private sector launched the revolutionary Internet. By throwing open so many sectors to cut-throat competition, the government forced U.S. firms to get lean and tough—characteristics that served them well in the global market. During the 1990s, European and Japanese firms were not prepared to face such awesome competitors, and so U.S. companies gained world market share.

Opponents of deregulation frequently point out that countries like Sweden and Canada are much more regulated than the United States, yet families there earn about the same amount of money and seem just as happy. Therefore, they argue, government regulations must not hinder economic growth. The “Buchholz critique” answers this point by arguing that a relatively unregulated economy like that of the United States produces more marketable innovations than other countries. As a result, even highly regulated nations benefit from the super-competitive U.S. market. For example, the Internet was largely developed here, but now consumers throughout the world get to log on. Students as far away as Tibet use the advanced microprocessors developed by Intel in Santa Clara, California. If U.S. firms were as tightly bound as Tibetan firms, there would probably not be an Internet or a super-fast microprocessor. Therefore, to simply compare economic levels
among countries ignores the spill-over effects, in which ideas and technologies slosh across borders, usually emanating from the freest economies.

Andy Warhol said that in the future everyone would be famous for fifteen minutes. Adam Smith has been famous for more than two centuries. How do we remember him? In the most revolutionary age of Western civilization, when the tumult of social rebellion, intellectual upheaval, and explosive economic growth baffled lesser men, Adam Smith gave the world order. He did not invent the market; nor did he invent economics. But he taught the world about the market and economics. For nearly seventy-five years, The Wealth of Nations supplied most of what economists knew.

Two hundred years after The Wealth of Nations, Smith’s ideas were resurrected and exalted. But what happened to Smith? He lived happily ever after. Truly. Ironically. Truly, because he socialized with the most famous men of his day, saw his book translated into almost every European language, earned honors throughout Britain and the Continent, and watched government officials assiduously take notes whenever he spoke. Ironically, because he spent the thirteen years before his death in 1790 working for the government as His Majesty’s Commissioner of Customs. He was lenient and thereby helped increase the wealth of nations.
CHAPTER III

Malthus: Prophet of Doom and Population Boom

Once upon a time, back in 1908, the Chicago Cubs faced the New York Giants in a decisive game for the National League pennant. During a dramatic play in the bottom of the ninth inning, the Giants’ substitute first baseman, a young, competent player, inadvertently failed to touch second base, which was duly protested and the game ordered replayed. The Cubs went on to win the ensuing one-game playoff for the pennant.

The young man’s name was Fred Merkle, but from that moment on until he died, he was haunted by a new name, “Bonehead” Merkle. Despite daring and noble efforts that followed, he never shed his epithet.

Almost everybody today seems to know of Sigmund Freud, Freudian slips, and sexual symbols. Any educated person who denies knowing about Freud must be repressing it.

Thomas Robert Malthus never played baseball and never saw a psychoanalyst. Yet his name became as famous as Freud’s and his infamy as undeserved as Bonehead Merkle’s. Byron, who probably needed a psychoanalyst more than Malthus did, composed poetry about him, and children sang rhymes mocking him. Decades after his death, Marx viciously attacked him. A century after his death, Keynes glorified Malthus and predicted that on the bicentenary of his death, “We shall commemorate him with undiminished regard.” But undiminished compared to what?

What dastardly crime did Malthus perpetrate that led even Romantic poets like Coleridge to lament: “Behold this mighty nation, its rulers and its wise men listening—to Malthus! It is mournful, mournful”?

In 1798 Malthus robbed romantic dreams from people who looked to the nineteenth century with utopian faith. He was tried in newspapers and found guilty of predicting that overpopulation would produce a future not of rapture but of social ruptures and decay. On the eve of a new century, Malthus was the ultimate “party pooper.” Or at least his theory was.

Born February 13, 1766, at the Rookery, the country seat of his eccentric father, Daniel, Malthus at the age of only three weeks met his two “fairy godmothers,” David Hume and Jean-Jacques Rousseau, whom Daniel Malthus worshipped. Robert, as the boy was called, flashed signs of high intelligence at an early age and soon received private tutoring. He grew to be tall and handsome, and in 1784 entered Jesus College, Cambridge, where, while studying for the clergy, he also read mathematics and philosophy. Like Adam Smith, Malthus was impressed by Newton and read carefully his Philosophias Naturalis Principia Mathematica. Despite his weighty intellectual interests and aspirations for holy orders, Malthus was a popular, witty Cambridge man, ready to put on a mocking comic expression
or voice. Malthus wore his fair hair in curly ringlets down to his neck, while most others wore pigtails. He might have been a trendsetter, for ten years later, almost all undergraduates wore their hair in ringlets. More shocking, while most students powdered their hair white, Malthus sometimes used pink. A punk before his time, perhaps.

Before graduating in 1788, the Master of Jesus College warned Malthus that a speech defect resulting from a cleft palate would hurt his chances of rising within the Church. This despite Malthus’ winning prizes for Greek, Latin, and English orations at Cambridge! Malthus discarded the advice, took holy orders anyway, and briefly practiced at a church in Okewood, returning to Jesus College as a Fellow in 1793. Although he never again committed himself full-time to the clergy, economists still refer to him as Parson Malthus, perhaps because the image of Puritanic pessimism fits his population theory better than that of a happy, humorous layman. Recall H. L. Mencken’s definition of a Puritan: one who has a haunting fear that someone, somewhere, at some time, may be having fun. Psychologically, perhaps we feel more comfortable dismissing Malthus and his warnings if we portray him as a Puritan.

**Bursting Utopian Bubbles**

The tides of revolution rolled high and rough when Malthus returned to Jesus College. In 1793, revolutionaries guillotined Louis XVI, and the French Republic declared war on England. Despite the harrowing times, some writers and preachers pronounced that high tides would eventually bring the calmest, most idyllic time man had known since Eden. Rousseau had earlier written utopian prose, suggesting that man was born happy and free, yet corrupted by society. Voltaire quipped that Rousseau’s hypernaturalism aroused a yearning to walk on all fours while reading his work. But Malthus resisted the vision of Utopia. In particular, he rebelled against William Godwin, a minister, pamphleteer, and author in 1793 of Enquiry Concerning the Principles of Political Justice, and Its Influence on General Virtue and Happiness. Godwin quite simply believed that “Man is perfectible, or in other words susceptible of perpetual improvement.” (His daughter, Mary Shelley, author of Frankenstein, might have disagreed!) And because “truth is omnipotent,” man could transform himself into a creature better suited for happiness and harmony with his neighbor: “Every man will seek, with affable ardour, the good for all.” Following Rousseau’s claim that the history of civil society was the history of human sickness, Godwin envisaged the abolition of government, courts, crime, war, melancholy, and anguish as man achieved perfection. Even death and sleep could be put to rest: “Generation will not succeed generation. . . . Before death can be banished, we must banish sleep, death’s image. Sleep is one of the most conspicuous infirmities of the human frame. It is . . . an irregular and distempered state of the faculty.” Similar visions of sugarplums danced in the head of M. Condorcet, a French philosopher and mathematician, whose Sketch for a Historical View of the Progress of the Human Mind was published in 1794. Condorcet showed striking optimism for a fugitive from Robespierre soon to be caught and put to sleep permanently.
Most annoying to Malthus, Godwin and the Archdeacon William Paley argued that an increasing population was a good sign, for it meant more total happiness. Paley proclaimed that a decay of population was the greatest evil a state could suffer. As the eighteenth century ended, some scholars equipped with bits of discredited data estimated that population had grown very slowly during the past one hundred years, while others even contended that the population had plummeted. Since a strong labor force supported economic growth, Prime Minister William Pitt introduced a bill that increased poor relief payments for couples with children, a precursor of modern-day Aid to Families with Dependent Children programs.

As expected, Daniel Malthus nodded in blissful agreement with the Godwin-Paley-posthumous-Rousseau coalition. But while father nodded, son shook his head. They talked and walked in the woods; each tried to persuade the other of the conclusion that reason required. Finally, Robert, frustrated with his misty-eyed, quixotic foe, dashed off in a fury An Essay on the Principle of Population as It Affects the Future Improvement of Society, with Remarks on the Speculations of M. Godwin, M. Condorcet, and Other Writers. Father, now misty-eyed at his son’s intellectual prowess, arranged for the essay’s anonymous publication.

The Frightening Theory

Few essays have ever been more shocking. Imagine the earth shrinking at a furious pace. Every twenty-five years it splits in half, one half remaining in orbit, the other spinning toward the sun, igniting, and exploding. People must scramble and trample toward the half that survives, carrying with them children, grandparents, and whatever sacred possessions they can carry. Even worse, they do not know which half of the earth will survive. Malthus’ prophecy is slightly different, yet only a bit less frightening. Instead of the globe cleaving and bursting, Malthus describes the population swelling and spreading at an explosive pace, while food supplies only inch along. Using data from the United States supplied by Benjamin Franklin, Malthus asserted that population tends to double every twenty-five years. Of course, it could double even faster. Actually, Malthus chose relatively conservative examples. Franklin reported that some villages double in only fifteen years! Though armed with no reliable data from Franklin on the food supply, Malthus concluded that output could never keep pace with population. Unchecked population grows at a geometric ratio, Malthus posited, whereas food increases at merely an arithmetic ratio.

What do these ratios mean? A geometric ratio (or exponential rate) means that a number continually multiplies itself by a constant, for example, a perpetual doubling. An arithmetic ratio simply adds a constant. Malthus provides a good example: If the present population is one billion, humans would increase by 1, 2, 4, 8, 16, 32, 64, 128, 256, while food would grow by 1, 2, 3, 4, 5, 6, 7, 8, 9. Whereas each person had one basket of food at the beginning, two
hundred years later, 256 people would have to share nine baskets. Only one hundred years after that, 4,096 people would have to share 13 baskets!

Geometric ratios can be extremely powerful, surprising, and misleading. A few examples might help. If Scott wants to borrow Dennis’s television to watch the Super Bowl football game on January 21 and promises to pay one penny on January 1 and double that each day until the game begins, Scott had better be very rich or Dennis had better be foolish enough to accept Monopoly game money. Scott would owe Dennis $10,485.76 at kickoff time! Compound interest rates at banks also illustrate geometric ratios.³ Recall the story of the Dutch who bought Manhattan island from the Indians for about $24. If the Indians had placed the money in a compound interest account, their heirs could afford to buy back the island today, including the Empire State Building, Lincoln Center, and all the “improvements” since the seventeenth century.

Compound interest can also mislead as we can see in a more recent example. In 1981, Congress passed a bill permitting Individual Retirement Accounts, essentially allowing people to put away up to $2,000 per year in a fund that would not be taxed until retirement. Advertisements immediately appeared in newspapers proclaiming that a twenty-five-year-old could easily retire with more than $1 million just by saving $2,000 a year. Graphs showed dollar bills soaring into the stratosphere, launched by the magic of compound interest. But the very small print told the real story. The banks assumed an interest rate of 12 percent over the next forty years, but did not tell the reader that if interest rates averaged 12 percent for forty years, inflation would likely rage for forty years, wiping out most of the gain. Imagine the frugal yuppie, slumped over his desk for forty years with little contact with the outside world. In the year 2021, he finally retires. With the yellowed 1981 advertisement in trembling hand, he telephones his banker to arrange for the armored car to pick up his treasure. The banker explains that nearly $10 million plus a blender await the yuppie. The yuppie weeps with joy, supporting himself on his pasta-maker. He hears a click. The operator interrupts: “Please deposit $400,000 for another minute.”

The conclusions of An Essay on Population were not entirely new either to Malthus or to others, since Franklin and Sir James Stewart each had previously published foreboding essays. Malthus himself had put forth his fears two years earlier in an essay that searched without success for a publisher: “I cannot agree with Archdeacon Paley, who says, that the quantity of happiness in any country is best measured by the number of people . . . the actual population may be only a sign of the happiness that is past.” Even if unoriginal, the Malthusian thesis, backed by pithy phrases and striking images, displayed a new virtuosity in the art of persuasion. Malthus captured the theory and with it the attention of Britain.

If the earth halved and halved again, we would see a frenzied rush. But what exactly happens when mouths exceed spoonfuls? Long before geometric growth soars off the graphs, two kinds of obstacles block the advance: “positive” checks and “preventative” checks. By “positive” Malthus clearly did not mean optimistic. He meant checks that raise
the death rate. What are the positive forces that can “save” us from geometric ratios? War, famine, and plagues. The black death lurks in every alley ready to rescue us. Infant mortality liberates us from overpopulation. And famine haunts us always:

Famine seems to be the last, the most dreadful resource of nature. The power of population is so superior to the power of the earth to produce subsistence for man, that premature death must in some shape or other visit the human race. The vices of mankind are active and able ministers of depopulation. They are the precursors in the great army of destruction; and they often finish the dreadful work themselves. But should they fail in this war of extermination, sickly seasons, epidemic, pestilence and plague, advance in terrific array, and sweep off their thousands and ten thousands. Should success be still incomplete; gigantic, inevitable famine stalks in the rear, and with one mighty blow, levels the population with the food of the world.4

Preventative checks, which lower the birthrate, seemed less severe, but also less likely. If only people would bridle their passion and delay marriage, they would be better off, Malthus suggested. After all, having children lowers a family’s standard of living. But Malthus saw little hope here, for he was preaching to the converted. The middle and upper classes who would read his essay would embrace his argument. But what chance did he have of persuading the lower classes, who always appear more fruitful and multiplicative, to forbear from marriage or childbirth, especially when the Poor Law encouraged couples to have children? Malthus portrayed a recurring cycle in which population growth controlled by grim natural checks would keep wages at only a bare subsistence level. If wages rose higher, workers would have more children, leading to food shortages and an inescapable decline in the standard of living.

In a splendid understatement, Malthus admits that his scenario has a “melancholy hue.” (Can one call black a hue?) Later, Malthus mourns that to “prevent the recurrence of misery, is, alas! beyond the power of men.” Nonetheless, he tries to sustain a smile and his homiletic humor. Life is “a blessing independent of a future state . . . and we have every reason to think, that there is no more evil in the world than what is absolutely necessary.”5 God, not Malthus, presents the Malthusian trap, hoping mankind will show sympathy and virtue.

The force of the anonymous pamphlet was a plague on the houses of Paley and Godwin, decimating their followers and leaving their theories to look as though intellectual famine had struck Utopia. Paley turned and followed his apostates. Godwin battled back, but on Malthus’ grounds, suspending his Utopian mirages and arguing that moral restraint could forestall disaster. The vital victory for Malthus, however, was winning over Prime Minister Pitt. Though in 1796 Pitt had eloquently advocated poor relief in Parliament, only four years later he adopted Malthus’ thesis and withdrew his support for a new bill. Pitt now argued Malthus’ position that since poor relief only encouraged the poor to have children, it brought closer the date for “positive checks” to ravage the populace. Erasing poor relief
from the public ledger would actually be a “palliative,” by increasing work incentives and decreasing claims on the food supply.

Malthus cannot be disparaged as a heartless hater of the poor. An Essay rings with sympathetic statements that the poor suffer most when positive checks rage. As Keynes later insisted, a love of truth and a discerning public spirit drove Malthus to his conclusions. But how strong Pitt’s throat muscles must have been to swallow his own words from 1796: “Let us make relief a matter of right and honour. . . . This will make a large family a blessing and not a curse; and this will draw a proper line of distinction between those who are to provide for themselves by their labour, and those who, after enriching their country with a number of children, have a claim upon its assistance for their support.”

Even with Pitt’s support, Malthus remained skeptical of the future. Beautiful women and wine irresistibly arouse men to venery. And as some preachers were well aware, words are often impotent when the listeners are not.

As the nation trumpeted his alarm, Malthus began to feel uneasy about the breezy scientific method he had used. After all, he had based his shattering, universal conclusions on scattered bits of information from a former colony. In addition, he felt uncomfortable with the nearly fatalistic pessimism of his books. A revised edition of An Essay seemed appropriate. Malthus began exhaustive research, traveling to Sweden, Norway, Finland, Russia, and even France and Switzerland during the 1802 peace with England. He studied civil records and laws, learning that Austria and Bavaria still upheld seventeenth- and eighteenth-century edicts prohibiting paupers from marrying. In 1801, Britain published its first comprehensive census, surprising Malthus, yet strengthening his argument. According to the study, during the late 1700s, population had advanced dramatically, whereas most had previously believed the growth was very slow. About a hundred years earlier, in 1696, the pioneer statistician Gregory King had wrongly predicted that population would not double for six hundred years.

In 1803, Malthus presented a new edition, complete with new title: An Essay on the Principle of Population or a View of its Past and Present Effects on Human Happiness, with an Inquiry into Our Prospects Respecting the Future Removal or Mitigation of the Evils Which It Occasions. Gone are Godwin and Condorcet from the marquee. Reduced are discussions of Utopian prophecy. Everything else in the book was expanded, if not in geometric ratio, at least in terms of length, depth, and weight. Malthus illustrated theoretical points with endless anecdotes and examples from Africa, Siberia, Turkey, Persia, Tibet, China, and again the United States, this time including American Indians. No one could attack him for not being empirical. In tone, the second edition sounds slightly less dire, offering hope that the working class might change their habits and show “moral restraint” before multiplying. Of course, altering attitudes takes time. The more temperate tone also affected discussion of the Poor Laws. Rather than scratching them forthwith, Malthus proposed “their gradual and very gradual abolition” so that no one presently alive
or born within two years is injured [original emphasis]. And relief would only be withdrawn from the able-bodied. To promote food supply, Malthus also urged restrictions on food imports and exports. Restrictions would boost the price in England and would therefore spur domestic production. Though generally a free-trader, Malthus proposed an exception for food. We will examine his trade arguments when we discuss David Ricardo.

With the new edition, reputable writers and politicians again admitted the force of Malthus’ logic. Reviews from leading journals and magazines praised Malthus (whose name now appeared on the previously anonymous work) for his insight and diligence, if not for his brevity. Less than two years later, the Monthly Magazine announced the preparation of a third edition, which appeared in 1806, followed by a fourth edition the next year. Of course, controversy erupted with each new edition. Intellectual enemies sniped even more wickedly and vulgarly at the second edition than at the first, since they now had a target (rather than an anonymous author) for their attacks. The poet Robert Southey wrote to a friend: “Malthus is as great a favourite with the British Critic as with the other voiders of menstrual pollution. I shall be very glad to lend a hand in some regular attack upon this mischievous booby . . . we may in a few evenings effectually demolish him.”8 Hardly a sonnet. Southey’s blank verse venom even exceeded Coleridge’s, whose motive for attacking Malthus stemmed from Jesus College, when Malthus voted to expel Coleridge for leaving to join the army without permission. Despite the vitriol, Malthus earned points with economists, soon emerging as a leader of the profession. James Mill, David Ricardo, and later John Stuart Mill and Alfred Marshall accepted An Essay, though sometimes ignored its implications in their own writings.

Soon after the second edition appeared, Malthus put aside moral restraint and at the age of thirty-eight married Harriet Eckersall. Since marriage violated the tenets of a Jesus College Fellowship, Malthus resigned and in 1805 accepted a post at Haileybury College, the training school for the East India Company, which administered India for the British government. Named Professor of General History, Politics, Commerce, and Finance, Malthus became the first professor of political economy in England. Thus, we may consider Malthus, despite his holy orders, the first professional economist. (Incidentally, disciples of Adam Smith assailed the East India Company as a pernicious monopoly, while followers of the utilitarian Jeremy Bentham defended the Company, arguing that new British entrants into the business of India would exploit the natives.)

At Haileybury, Malthus proved once again that the man who depicted miserable plagues and famines loved to have fun. A friend described his mood as habitually playful, as ready to engage in all innocent pursuits and pleasures of the young as to encourage them in their studies. Within three years Malthus had three young children of his own to play with. Critics loved to jeer at the multiplication of his own offspring, and although the Malthuses had only three, somehow the 1958 and 1967 Everyman’s Library editions of An Essay awarded him eight more—all girls!
A Good Soothsayer?

Malthus spawned thousands of disciples, many of whom burst forth in the 1960s and 1970s, pleading for the modern-day relevance of their master’s prophesies. Before examining the recent literature, let us with hindsight assess Malthus’ predictions. The plain fact is that they were bad. Population did not continue to expand geometrically. Food supplies did not creep along. Misery may have visited the poor, but not for Malthusian reasons. On the contrary, in Britain and on the Continent, where Malthus focused his attention, people ate better, lived longer, and exhibited more “restraint” than Malthus ever expected.

Malthus missed some of the most important trends in history, as well as some obvious statistical blips. On the trivial side, he forgot to ask Benjamin Franklin whether the rising population figures distinguished immigrants from natural-born Americans. In other words, by lumping Franklin’s data together Malthus in effect assumed that mothers of English descent in remote villages were giving birth to Dutch children arriving in New York by boat. Since he saw rising numbers, he declared the English mothers extremely fertile—certainly a painless childbirth system, even if a flawed statistical method. More crucial, Malthus missed the advances in medicine, an agricultural revolution, and the start of an industrial revolution, all of which would twist his projections like taffy into novel geometric shapes, not steady geometric trends.

While Daniel Malthus took walks in the woods with Jean-Jacques Rousseau and contemplated man’s perfection, eighteenth-century farmers were perfecting powerful methods to expand output. At the beginning of the eighteenth century, European agricultural productivity was no higher than twenty centuries earlier. But from 1700 to 1800, output per worker doubled in England. In France, despite the effects of revolution and war, output grew by roughly 25 percent between the time of Malthus’ birth and the first edition of An Essay. Several innovations accounted for the leap, including crop rotation, seed selection, better tools, and the use of horses instead of oxen, reducing plowing time by nearly 50 percent. By 1750, rapid progress allowed England not only to feed her citizens, but to export an additional 13 percent in cereals and flour. If a country advances in agriculture, more citizens can work in urban or nonagricultural areas. Whereas 75 percent of Englishmen worked in agriculture in 1690, by 1840 only 25 percent did.\(^9\) In the United States today, only a small percentage of the population is needed to feed all of America and export millions of tons of food abroad. Far from limiting population growth, expanding food supplies permitted more parenthood.

Remarkably, though, a higher standard of living did not lead to a Malthusian birth spiral. When looking at population statistics, Malthus did not see that an increase in population might stem from a decrease in the death rate. From 1740 onward, mortality rates declined in Europe as a result of the improved diet made possible by the agricultural revolution and better health and medical treatment. Until the eighteenth century, doctors probably killed
more than they cured; an operation on a voodoo doll by a witch doctor was likely to be more effective than surgery by a scalpel-wielding “leech” doctor. In the 1700s life expectancy at birth was approximately thirty years, rising to forty years in 1850, fifty years in 1900, and well over seventy years today. Because of the agricultural revolution, large fluctuations in harvests diminished, and except for Ireland in the 1840s, famines disappeared from western Europe. The last famine in Great Britain struck nearly a century before the appearance of An Essay.

But why did population not steadily soar? Economists point to four stages in the “demographic transition.” In preindustrial societies high death rates balance high birthrates, ensuring steady population. In the second stage, early industrial development, better health lowers death rates, so birthrates appear excessive, and population spurs upward. Since Malthus collected his data in this era, he did not and probably could not have seen what would come next. In the third stage, urbanization and education persuade many to have fewer children. Thus, the death rate continues falling but so does the birthrate, which flattens the population curve. Finally, in a mature society, with successful birth control and often both spouses working, couples seem to desire between one and three children, and the population stabilizes. Karl Marx once said that whenever the train of history goes around a bend, all the intellectuals fall off. Malthus did not foresee stages three and four. When the figures fell off his plotted chart, Malthus fell off the train.

Can we blame him? After all, he had few hard facts to work with. Indeed, the arguments he rebutted were so lofty and fanciful that his efforts appear painstakingly detailed in comparison. If we apply his own criteria, as later stated in his Principles of Political Economy, though, he is guilty: “The principal cause of error, and of differences which prevail at present among the scientific writers on political economy, appears to me to be, a precipitate attempt to simplify and generalize . . . [and not to] sufficiently try their theories by a reference to that enlarged and comprehensive experience, which, on so complicated a subject, can alone establish their truth and utility.” Given his oversight of an agricultural revolution and too cursory analysis of why population figures rise, he simplified and generalized too much to escape a verdict of guilty.

The most important moral of Malthus’ errors is this: never, ever, extrapolate from past data without boldface, underlined, capitalized disclaimers and due modesty. If Aeschylus lived in the modern world, he would write a tragedy about a noble researcher smote by the gods for immodest extrapolation. If Aeschylus wanted modern protagonists, he could look to disciples of Malthus who like Cassandra cried of doom to come (the difference being that Cassandra was right).

**Doomsday Postponed?**

Spurred by concerns about pollution, population, and rising energy prices, some groups in the 1970s tried to map the world’s future. Again, sad sooths were said: assuming current
trends, resources would dwindle; industry would befoul those natural resources that did not dwindle; output would collapse; and population would streak past food supplies. Who said these sooths? One of the most frightening studies was compiled by the Club of Rome, a group of European academics, and presented in a best-selling book, The Limits to Growth.\textsuperscript{12} Using advanced computer techniques, the Club of Rome extrapolated trends and predicted disaster within one hundred years unless preventative measures were more severe than Malthus suggested were taken. The preventative measures: immediately stop economic growth, stop population expansion, and recycle resources. So shocking were the predictions that the Club reevaluated them and shortly issued a much happier study. An economist described the Club as “the computer that cried wolf.” Nonetheless, the original report got the publicity. In 1973, Robert S. McNamara, then president of the World Bank, compared the “population explosion” to the threat of nuclear war. In 1974, Robert Heilbroner published An Inquiry into the Human Prospect, in which he displayed absolutely no hope for mankind in the modern world. Projecting industrial trends, he concluded that resources could not keep up with industrial demand. And even if they did, we would all burn up in a hotter atmosphere. Perhaps switching to a more monastic life-style would be prudent, he suggested. So far most people have responded to the suggestion with the advice of movie mogul Samuel Goldwyn: “Include me out.”

In 1980, in response to an earlier request from President Jimmy Carter, the State Department and the Council on Environmental Quality released Global 2000 Report. Though much more rosy and reasonable than the Club of Rome, the report proclaimed: “If present trends continue, the world in 2000 will be more crowded, more polluted, less stable ecologically, and more vulnerable to disruption than the world we live in now. . . . Barring revolutionary advances in technology, life for most people on earth will be more precarious in 2000 than it is now . . . unless the nations of the world act decisively to alter current trends.”\textsuperscript{13} The Washington Post approved, writing that “the report’s projections clearly err’d on the side of optimism.”

Still, most economists remain skeptical of these reports. Those who programmed the models installed the same kind of pessimistic and static assumptions that Malthus used. Some branded the models “PIPO”: pessimism in, pessimism out. One key assumption violated a central tenet of economics—namely, prices signal to economic agents when to conserve or economize. Recall our earlier discussion of Adam Smith and Hayek’s example of tin. If demand for tin grew, the price would rise, people would try to use less tin, and entrepreneurs would be spurred into looking for substitutes for tin or additional supplies of tin. Under the original Club report, if demand grew, nothing would happen except that the world would run out of tin. Yes, for some products there may be a fixed supply, no substitutes, and a rising demand unresponsive to higher prices. But these are surely exceptions. Nobel Laureate Wassily Leontief studied the question for the United Nations in 1977 and reported: “Known world resources of metallic minerals and fossil fuels are generally sufficient to supply world requirements through the remaining decades of this
century . . . to support world economic development at relatively high rates. But . . . these resources will most probably become more expensive.”

In retrospect, even Leontief was too pessimistic. Starting in the 1980s, energy prices began a slow slide that would last through the end of the century (aside from a brief jump in 1990 when Saddam Hussein’s Iraqi army invaded Kuwait). By the mid-1990s, oil prices were lower in inflation-adjusted terms than they had been in the early 1960s, long before the OPEC oil embargo of 1973. Even the price of gold, which had leapt to $400 an ounce in the 1970s, drifted down to just under $300 in 1998. In 1980 an optimistic economist named Julian Simon challenged a pessimistic biologist named Paul Ehrlich, who had written the books The Population Bomb and The End of Affluence. Simon dared Ehrlich to choose any commodities, wagering that the prices would fall over time, not rise (showing that there was no shortage). Ehrlich purchased $1,000 worth of five metals. In 1990, they would check the prices. If they had gone up, Simon would pay Ehrlich the increase. If they had fallen, Ehrlich would pay Simon the difference. Sure enough, Ehrlich had to pay up, for resource prices dropped, even though the world economy and the world’s population expanded. Simon received a check for $576. Why did Simon win? First of all, the “oil scare” model did not imagine that entrepreneurs would pump vast sums of oil from the North Sea or from Mexico. Second, they, like Malthus, missed an agricultural revolution that showed farmers how to grow more with less. In the 1950s, a plant geneticist and pathologist named Norman Borlaug helped launch the “Green Revolution” by figuring out how to mate a sturdy-stalked dwarf wheat with a heavy-headed strain. His results yielded bumper golden harvests that have fed millions in India, Mexico, and Africa. Third, they underestimated the incentive to invent substitutes for scarce goods. Right now, aluminum, steel, and plastics companies vigorously compete to fight their way into new automobiles. In the 1967 movie The Graduate a middle-aged character gives the young Dustin Hoffman a hot investment tip, “plastic.” It turned out to be a smarter idea than most of those dispensed by “professional” Chicken Littles. The Stone Age didn’t end because we couldn’t find any more rocks. We won’t stop using fossil fuels because we’ve used up the last drop.

The doomsday models assume that technology cannot outpace resource demand. While technology may not be the dependable deus ex machina of Greek theater or the cavalry of Hollywood westerns, we cannot be too disparaging either. For example, the models condemn automobiles for pollution and portend an end to fossil fuels such as oil. According to the models, oil and automobiles, though crucial to modern society, are destructive. But what did these replace during this century? The horse for transportation and wood for energy. Near Central Park in New York, only a few dozen horsedrawn carriages operate today. Yet the smell can be pungent. Imagine the stench and disease spread a century ago in cities where horses reigned supreme for transport! Wood may be more renewable than oil, but fossil fuels have proved cheaper. The switch was promoted by prices, not by a foreboding model. The point is that long-term forecasts regarding economic resources and technology require divine gifts, not degrees in economics.
Does this mean that economists must wear silly smiles and let the invisible hand take care of pollution and starvation in lesser developed nations? No. We will discuss pollution more fully later, but for now economists must admit that pollution often indicates a gap in the simple Adam Smith model. Think of pollution as a cost of doing business. But how does smoke differ from labor cost or machinery cost or rent? The corporation pays for these other costs. They are “internal” to its operation. But the corporation does not pay for the pollution. It is an “external” effect that society pays for by breathing dirty air. The result? The manufacturer produces more goods than it should, because the cost of producing seems cheaper than it really is. To get the ideal amount of production, the manufacturer should be forced to absorb the usual costs plus the cost of pollution to society. Taxes on pollution are frequently suggested by economists to achieve this.

The Malthusian trap seems more pertinent in lesser developed nations, where better health services reduce death rates, but birthrates continue at high levels. But despite pessimism, fertility figures in many poor countries have declined in the last twenty years as a result of educational campaigns, subsidized birth control, and the natural “demographic transition” that accompanies economic development. In Brazil some social scientists credit the middle class attitudes displayed on television for a stunning drop in the birthrate, which confounded forecasts of the 1970s. On the other hand, the effort to reduce birthrates is controversial in some societies. In China the government policy to reduce the birthrate appears to be extremely severe, and in other countries birth control policies defy tradition and religious precepts. Nonetheless, dramatic declines have been registered in Sri Lanka, China, Indonesia, and several Indian states. Singapore has seen the birthrate of Chinese ethnics plummet so fast that it worries about underpopulation. After twenty years of the slogan “Two Is Enough,” Singapore officials declared: “Have three—more, if you can afford it!”

At the same time, poor countries are boosting their agricultural output. China and India constitute more than 40 percent of the world’s population and most of its poor people. Yet over the last fifteen years, both of these countries have become nearly self-sufficient in agriculture. In 1978, China began to restructure the agricultural sector, shifting from centrally controlled production units to decentralized market forces. Finally permitted to float, prices became signals to China’s economic actors, and output leaped forward.

On the grim flip side, however, African states have found success elusive both in slowing population and in raising production. Although babies are born at a slower rate than in the 1950s, the overall population growth rate is higher because life expectancy has risen dramatically. The ghost of Malthus seems to frown upon countries such as Ethiopia, where drought and war act as positive checks. Nonetheless, such ravaged countries have the potential to feed their populations. Economists point to two primary problems. First, poor countries cannot afford to save and invest in new technology because incomes are low. And incomes are low because production techniques are inefficient. Thus they are caught in a vicious cycle, which foreign aid attempts to break. Second and much more important, many
governments with unstable political roots placate urban consumers by keeping food prices low. But artificially low prices decrease investment by farmers and stunt further output. As a result, consumers happily see low price tags, but sadly look up to see empty shelves.

Third World countries often compound the problem by propping up their currencies, which encourages imports and discourages their exports. Over the last decade, many scholars have reexamined the basic question of whether population growth hurts Third World countries and concluded that for some countries, especially those with plenty of arable land, rapid population growth may not be destructive. A denser population may lower the costs of transporting goods to customers and stimulate domestic demand for goods. The World Bank suggests that most developing countries can absorb up to 2 percent growth without a decline in the standard of living. While African countries average annual increases of 3 percent, Asian and Latin American countries average about 2 percent. Certainly, there is reason for hope. But hope rests to a large extent on whether governments will enact productive economic policies that encourage trade among adults and education among children.

Since the first edition of this book in 1989, some African nations have actually tossed aside the rigid, wrong-headed policies that condemned their populations to continuous famines. Ethiopia, once the poster country for drought and agricultural desperation, has made a remarkable turnaround in past years, doubling its grain output in the 1990s. While the Marxist dictator Mengistu had forced farmers into cooperatives, and then paid them low prices, his successors since 1991 have permitted farmers to charge market prices, encouraging them to produce more grain and to take better care of their fields. Fortunately, Ethiopia is not alone, as Ghana and Uganda have also declared war on starvation, rather than war on farmers. Alas, Zimbabwe’s Robert Mugabe has not joined in.

**Malthus and the Immigrants**

While Malthus warned that the whole planet would get too crowded, modern protesters worry that their native countries are overflowing—with too many immigrants. In France and Germany, new political parties promise to throw out the foreigners. In the post-World War II era, Germany opened its doors for 7 million foreigners, many of them Turkish and Arab guestworkers. But lately they are treated less like guests and more like unwanted squatters. Even in Australia, anglos are protesting the influx of Asians. This in a country once populated by British prisoners!

In America—a nation of immigrants—we sometimes hear people denounce newcomers, especially during periods of slower economic growth, when the jobless rate rises. Few “nativists” (not to be confused with Native Americans) worry à la Malthus that the immigrants will eat all of their food. Instead, they claim that immigrants drive down the standard of living by taking jobs from those born in this country, while undermining the “cultural integrity” of the United States. Of course, these arguments are not new. Irish
Americans bitterly tell of their grandfathers reading help-wanted ads that included the tag line, “no Irish need apply.” As a character in the 1991 film The Commitments announces, “The Irish are the blacks of Europe. So say it loud—I’m black and I’m proud!” Yet through the eyes of today’s Mexican immigrant, Irish Americans look like they sailed over with Miles Standish on the Mayflower. A book called How the Irish Became White shows how the derided Irish claimed their place in America.¹² The careers of outstanding, patriotic sons like George M. Cohan undoubtedly helped the immigrant cause.

But “this time it’s different,” nativists argue. First of all, immigrants in the past few decades have not assimilated as quickly as the millions who arrived in the great waves of European refugees at the turn of the twentieth century. Why not? The earlier waves fled from a polyglot of European countries and spoke over a dozen different languages. From 1915 to 1965, Europeans composed about 75 percent of 11 million newcomers. In contrast, about half the recent immigrants come from Latin America, mostly from Mexico (only about 15 percent come from Europe). Because there is strength in numbers, many families can live and work speaking in Spanish. Spanish-speaking cable/satellite television has been sweeping Florida and California. Modern technology helps, since newcomers can easily telephone, fax, e-mail or even fly to their relatives back home. Long distance telephone rates have plummeted to well under 10 cents per minute, giving even minimum wage workers the “luxury” of phoning home. In contrast, in 1912 the Hamburg Shipping Line carried mail-bags from Germany, the only way for a fraulein to communicate with her frau back home. The “melting pot” metaphor has been locked in the cupboard, replaced by the “salad bowl,” suggesting that each ethnic group should maintain its identity and resist assimilation. While peer pressure used to prod immigrant children into learning English, even Chinese youths are quick to mock each other as “bananas” (yellow on the outside; white on the inside) if they take up American habits too quickly.

Economists care much more about a second issue. Are immigrant incomes catching up to natives, as the Irish, German, Italians, Poles and Jews eventually did, or are they slipping behind and leaning too much on public assistance programs? While most economists start out very sympathetic to lenient immigration rules, the latest data troubles them. Here’s the problem: the economy has grown so technologically advanced that unskilled laborers have little hope of jumping into the mainstream. In the 1880s, Isaac and Joseph Breakstone could start by selling dairy goods from a pushcart and eventually build a successful business. But pushcart capitalism does not stand much of a chance today. Sure, some skilled Chinese immigrants have earned fortunes selling and designing computer equipment, but these stories are certainly rare among the Mexican-born gardeners of southern California. Recent migrants start off earning about 30 percent less than natives, and they do not make much progress from there. Guatemalans who arrived before 1980 were making 28 percent less by the 1990s. While Chinese had on average fully caught up, Laotians stayed 22 percent behind.¹⁸ Furthermore, when unskilled immigrants come ashore they may push down wages
for unskilled natives, particularly urban blacks, by 2.5 percent to 5 percent, according to some researchers.

Of course, the data could change (and a revolution in our school systems would help!). Even so, because the data is aggregated, it tells us little about individual contributions by immigrants. What if Albert Einstein had stayed in Germany and been forced to help the Third Reich? Certainly his genius offset all the German immigrant rabble that angered anglos in the 1930s. And in any case, the Statue of Liberty was not placed in New York harbor as an economic symbol. Despite occasional backlashes, the U.S. has welcomed the huddled masses, who have longed to breathe free, and have made us all richer in the process.

One more reason keeps economists hopeful. Namely, when millions of baby boomers retire over the next two decades, the U.S. will need more workers to support the pensioners. It will be a new opportunity for new members of the workforce. We will see whether they take advantage of it.

**Global Warming: Malthus’ Revenge?**

Mother Nature is fickle. The seas in which we now sail, swim, and jet-ski once boiled. Dinosaur fossils lie buried near traces of tropical ferns in Montana. In a real Jurassic Park, tropical ferns left coal deposits near the South Pole. Millions of years later, the Vikings hunted in a truly green Greenland and Englishmen drank English wine amid flourishing vineyards in the midlands. Later, in the time of the Renaissance, a “Little Ice Age” took hold. Bitter winters inspired the Flemish painter Pieter Bruegel the Elder to create his seminal work, Hunters in the Snow, while Dutchmen enjoyed skating on canals, a rare treat today.19 Shortly before the Carter administration released Global Report 2000, which forecast environmental disaster and soaring energy prices, Congress held hearings on the climate. In particular, the 1960s and 1970s had been a chilly decade marked with blizzards, and some scientists warned of a new ice age, since temperatures had peaked in the 1940s. Computer models warned that the earth might have jumped onto a long-term track toward global cooling. After all, the last ice age had temperatures just 10°F cooler than ours. Small shifts could lead glaciers to spread from the poles, covering New York in hundreds of feet of bluish ice, as it had been millions of years ago.

Almost immediately after these warnings, the weather turned warm again. By 1990 international scientists gathered under the United Nations’ auspices and predicted that the earth was warming dangerously fast and could send the thermometer up perhaps by 9°F higher by the year 2100. Not only would more people sweat, but global warming would incite terrible floods, as well as devastating droughts that would threaten food and water supplies. What would cause this calamity? Following the work of a Swedish scientist, Svante Arrhenius, the Intergovernmental Panel on Climate Change (IPCC) theorized that fossil fuels build up carbon dioxide, creating an insulating layer that permitted the sun’s hot rays to penetrate, but did not let warmth escape. Over a hundred-year period, as the number of
automobiles throughout the world multiplies, so will CO₂ levels. Already, shrinking glaciers of northern Europe are revealing bones and fossils that date prior to the last ice age. A hotter climate would lift sea levels, disintegrate glaciers and polar ice sheets, and intensify storms. Many places would turn wetter, inciting tropical diseases such as malaria, and devastating world agriculture. All in all, a bleak, Malthusian story of population growth destroying the ability of the world to sustain human life.

Could it be true? Perhaps. Skeptics cite a number of arguments against the doomsday scenario. For example, the earth’s temperature has budged only about 1°F in the last century, and the data is awfully fuzzy (satellite readings show a smaller rise). Some scientists believe that the sun could have brightened up enough to explain that small rise. They also argue that the formation of clouds is still too tricky a process for computers to model. In addition, some glaciers around the world have actually started spreading rather than shrinking. Finally, skeptics argue that, even if the climate perks up 4.5°F (the IPCC’s mid-range forecast), many parts of the world would benefit from a longer growing season and less brutal winters. A group of optimistic economists have dubbed their analysis the “Ricardian” approach, named after the hero of our next chapter. In the Ricardian analysis, farmers would take advantage of global warming by switching to warmer-weather crops; they would replace wheat fields with cotton, for example. Already, a wine-growing culture has sprung up in the English countryside, where it had died out seven hundred years ago. Of course, countries that are already terribly hot and wet would have few new choices. What’s good for the farmer in Kansas may be terrible for the man who tends the rice paddies in Vietnam when the monsoons hit. Global warming, by itself, would not prove Malthus right. The real test would come if mankind has to respond to a warmer, more threatening climate. Will he keep pumping CO₂ into the atmosphere until he either asphyxiates or destroys the vegetation? Or will he find the technological tools to let his species survive? Our great-grandchildren might learn the answer.

**His Last Days**

Malthus would be surprised to learn that the world is in good enough shape to dispute his thesis over 150 years after his demise.

Malthus spent the last thirty years of his life at Haileybury and London hobnobbing with the greats and near greats. In Samuel Johnson’s term, he was “clubbable” and became a member of the King of Clubs and the Political Economy Club. He prepared several books and pamphlets, most notably his Principles of Political Economy. More important, in friendly yet forceful tones he debated David Ricardo on trade policy and the question of economic depressions, which we will discuss later.

Even until his death in 1834, Malthus felt obliged to deny that he was an enemy of mankind. Lecturers and authors still portray him at best as a dour parson and at worst as a goblin well suited for Halloween. Yet his critics, he thought, donned the merry masks that
marred their vision—preventing them from seeing that the light at the end of the tunnel was a train coming at them.
CHAPTER IV

David Ricardo and the Cry for Free Trade

David Ricardo never attended college. But he delved into economic theory with more competence than any academic. He never formally studied financial markets. Yet he made millions of pounds in the stock market. His powerful mind and practical knowledge so dominated intellectual foes that he could win fiery debates and then dismiss the rival argument, saying that only a university professor would be silly enough to believe it.

One university professor was “silly” enough to disagree with Ricardo. His name was Thomas Robert Malthus. But critics had so viciously slandered Malthus that he actually enjoyed Ricardo’s thoughtful attacks. After Shelley and Coleridge, Ricardo’s snipes must have seemed more like a serenade. And at least Ricardo agreed with his population principle.

The relationship between Ricardo and Malthus began in the press, when each published essays on currency and trade issues criticizing the other. Malthus finally sent a letter to Ricardo in 1811, suggesting that since “we are mainly on the same side of the question, we might supersede the necessity of a long controversy in print . . . by an amicable discussion in private.” At almost the same time Ricardo was composing nearly the same note. They met a few days later and it was the beginning of a lifelong friendship. Before Ricardo’s death in 1823, he wrote to Malthus, stating that despite numerous disputes, “I should not like you more than I do if you agreed in opinion with me.” Only three people shared in Ricardo’s will, and Malthus was one. Later Malthus announced, “I never loved anybody out of my own family so much.”

Malthus never knew anybody who was so outside his “family” as Ricardo. Whereas Malthus came from an old English family and took holy orders in the Anglican Church, Ricardo was born the son of a Jewish immigrant in 1772. Abraham Ricardo was one of the twelve “Jew Brokers” permitted to practice as a stockbroker in London. While Malthus received careful tutoring and schooling at Cambridge, Ricardo went to work with his father at fourteen and began to learn intricate financial systems and strategies on the job, so to speak. And he learned well. By his mid-twenties the man with the Midas touch had established his own business and amassed a fortune through stocks, bonds, and real estate investments. The only investment money Malthus ever earned, Ricardo made for him. A primary example of their contrasting acumen occurred during Napoleon’s reign. Ricardo had bought some British government stock for himself and Malthus, but after the proclamation of a new French constitution, Malthus grew nervous, fearing that a good turn of events for the French leader would hurt the stock. In tones so timid that they show Malthus better suited for a Church bingo game than the stock market, he requested Ricardo to sell the shares, unless “it is either wrong, or inconvenient to you, and whatever may occur . . . I shall
always be sensible of your kindness, and not disposed to repine.” Ricardo sold Malthus’ shares but held on to his own a bit longer, earning almost double Malthus’ premium.1

Although wealth surrounded Ricardo, he did not read The Wealth of Nations until he was twenty-seven and only then by “accident.” During a boring vacation in the English resort of Bath, the future leader of classical economics tripped upon the founder’s greatest work. Recall that Adam Smith began The Wealth of Nations during a dull stay in France. Since economics seems to owe more to boredom than any other discipline, perhaps students should not complain if their professors occasionally repay the favor or commemorate the founding.

In 1809, Ricardo debuted as an economics writer—with newspaper articles and pamphlets on currency and inflation—to rave reviews. At the urging of James Mill, a political economist and father of philosopher John Stuart Mill, Ricardo entered London’s intellectual society, later becoming a member of Malthus’ Political Economy Club and of the King of Clubs (a social club). A splendid raconteur and host, Ricardo especially impressed the novelist Maria Edgeworth, who reported having had “a delightful conversation, both on deep and shallow subjects. Mr. Ricardo, with a very composed manner, has a continual life of mind, and starts perpetually a new game in conversation. I never argued or discussed a question with any person who argues more fairly or less for victory and more for truth.”2

The son of an immigrant soon became the model English gentleman, wise to the industrial revolution and smart in the drawing room. At the bullying of James Mill, in 1817 Ricardo finally wrote a treatise, On The Principles of Political Economy and Taxation, providing a full commentary on Adam Smith as well as contemporary issues. Two years later, and again at Mill’s urging, Ricardo won a seat in the House of Commons, where his high-pitched voice rang out for political freedoms and free trade.

A Tricky but Brilliant Theory

We do not know how many members of Parliament actually understood Ricardo, especially his views on trade. This was not because his views were cloudy or he was inarticulate, but because Ricardo tried to argue perhaps the most complex and counterintuitive principle of economics. Once President Gerald Ford gave a televised speech on the federal budget deficit using a calendar as a visual aid, all carefully rehearsed so that he would not make any embarrassing hand gestures. No modern president would attempt to do what Ricardo tried to do. Unfortunately, the perplexing principle is the key to modern economic understanding. An insolent natural scientist once asked a famous economist to name one economic rule that is not either obvious or unimportant. Ricardo’s Law of Comparative Advantage was the immediate response. Regrettably, few politicians then or now can follow the analysis. As a result, quotas, tariffs, and trade wars mar the world’s economic history.
Before examining the principle, let us see why Ricardo bothered to explain it. As in Adam Smith’s vision, businessmen love to shout about free enterprise at Rotary Club meetings, yet whisper requests for favors into the ears of politicians on Capitol Hill. During Ricardo’s time, landowners whispered and waved their wealth at Parliament, securing protection from the import of grain after the Napoleonic Wars. The price of grain had soared during the Wars, partly as a result of Napoleon’s embargo, and landowners feared a sudden drop at the onset of peace. On the other side of the aisle sat the rising bourgeoisie, the new businessmen of the Industrial Revolution. Since the bourgeoisie employed laborers, they preferred to see lower prices for food, so they wouldn’t be forced to pay higher wages. The landowners won the battle of influence, and in 1815 Parliament passed an act that prohibited imports of grain below a certain price, virtually granting farmers a monopoly. British dictionaries define “corn” as grain such as oats, rye, wheat, and barley. Thus, the acts were called “Corn Laws.”

Ricardo saw two futures for Britain: First, as an insular, protectionist island barricaded against foreign goods. Second, as an extroverted trader, acting as the “world’s workshop.” The choice was critical. For if Britain chose the former, the self-reliant economy would soon become decrepit. We will first learn why Ricardo preferred the open-door policy and then examine the tricky question of Ricardo’s “stationary state.”

Recall Adam Smith’s absolute advantage trade model. Imagine him espousing his theory and insulting the French by saying, “We don’t like them. They eat frogs. And I had a tedious time in Toulouse. But if they can make wine cheaper than we can, we should toast them and drink their wine. If they cannot make wine more cheaply, let’s just snicker at them across the English Channel.” A logical, intuitively correct statement.

To understand Ricardo’s response, imagine the old television series “Gilligan’s Island.” Hapless, hopelessly clumsy Gilligan is washed ashore along with the competent, self-assured skipper. Two tasks must be done—fishing and building shelter. Assume that the skipper can catch a fish dinner in 10 hours and build a thatched hut in 20, and that Gilligan usually hooks himself and takes 15 hours to catch fish and 45 hours to build a hut. By Adam Smith’s logic, the skipper should move as far away from Gilligan as possible, building and fishing on his own, since he outperforms Gilligan in everything. But economists still shudder with reverence when Ricardo shows that the skipper should split the chores with Gilligan!

Let’s first calculate how many fish dinners and huts they could build on their own, spending half their time fishing, the other half building. Assume that during a year, the skipper will work a total of 2,000 hours, and his younger first mate Gilligan is ordered to work 3,600. If the skipper spends 1,000 hours on fishing, he will garner 100 fish dinners; and 1,000 hours of hut building by him will produce 50 huts. Gilligan’s 1,800 hours of fishing will bring 120 dinners; and 1,800 hours of hut building will make 40 huts. So the total number of dinners on the island is 220, eaten in the comfort of 90 huts.

What happens if they specialize? If the skipper spends all his time on huts, he will construct 100; if Gilligan concentrates on fish, he will return with 240 fish dinners. Thus, the
island has increased output dramatically just by specializing, even though Gilligan was far less competent at both tasks!

Imagine Ricardo responding to Smith’s hypothetical insult of the French by saying “I dislike the French as much as Adam Smith did. But I do not snicker at them just because they cannot do anything as cheaply as we can. I would trade with them despite their inferiority.”

The next key question is: how do we know what to specialize in? Let us return to the island. Since it takes the skipper twice as long to erect a hut as it does to catch dinner, he gives up two dinners every time he builds a hut. But Gilligan, who takes three times longer to build a hut than to catch dinner, gives up three dinners every time he builds a hut. Since building huts is a smaller sacrifice for the skipper, he should build huts. Ricardo showed that people and countries should specialize in whatever leads them to give up the least. This is their “comparative advantage.” And the sacrifice they make by not producing a good is their “opportunity cost.” Thus, specialization is determined by whoever has the lower opportunity cost.¹

The point of Ricardo’s analysis: free trade makes it possible for households to consume more goods regardless of whether trading partners are more or less economically advanced. The point of Ricardo’s Corn Laws position: If French farmers are willing to feed us for less than it would “cost” us to feed ourselves, let us eat French food and spend our time doing something else.

**The Battle Against Protectionists**

If Santa Claus begins airlifting cakes, cookies, and clothing by reindeer, should we shoot Rudolph out of the sky because we bake and sew ourselves? The problem confronting Ricardo and all “free traders” is that bakers and tailors would prefer that the government intercept and destroy Rudolph. They would claim that jobs depend on baking for ourselves. But they forget the benefits to consumers throughout the country, especially to the lower classes, for whom cheaper food means a substantially better life. At the time Ricardo wrote and argued before Parliament, workers spent nearly half their wages on breads made from grain. To block cheap grain imports adversely affected workers and their employers. Further, protectionists forget that jobs are created by selling goods and services to other countries. No wonder Ricardo became an enemy of the upper class by declaring that the “interest of the landlords is always opposed to the interest of every other class in the community.”

Despite the force of his intellect and argument, Ricardo could not persuade Parliament to relent. The Corn Laws persisted until 1846. Ricardo did, however, persuade subsequent generations of economists that protection is almost always bad for an economy as a whole, though good for a particular group. People sometimes insult economists for frequently disagreeing about policy prescriptions. George Bernard Shaw predicted, “If all economists
were laid end to end, they wouldn’t reach a conclusion.” Yet several times during the twentieth century, thousands of economists signed petitions begging the U.S. government not to block imports. Every time the domestic economy appears stagnant, some politicians try to placate voters by threatening foreign economies. The United States imposed its highest tariffs of this century when it and the world needed free trade the most, during the Great Depression. When economies turn inward, they almost always turn downward. There is no such thing as an inward and upward spiral in economics.

During the 1980s Japanese automakers began “voluntarily” restricting exports to the United States to avoid even harsher measures from Congress. Because the supply of Japanese cars was limited, their prices rose, and American manufacturers were able to charge more for their own cars. Economists estimated that American consumers lost $350 million as a result in the first year, and car prices rose nearly $3,000 in the first three years of the restraints. Even if, at most, 10,000 jobs were “saved,” the American economy could have paid each worker $35,000 a year just to sit at home. Instead, fewer consumers could afford cars and those who bought had fewer dollars left to purchase other goods, reducing jobs in other sectors. “Domestic car makers could and probably should cut prices, but the government handed the American consumer to them on a platter, and they couldn’t resist carving them up,” charged Robert Crandall of the Brookings Institution.4

During 1989, automotive lobbyists beseeched the Treasury Department to classify imported minivans and sport/utility vehicles as trucks. If the Treasury had given in to the pressure, tariffs on such vehicles would have increased tenfold. The British government especially protested the proposal on behalf of Rover. Their embassy in Washington, D.C., informed the White House that the Queen herself drives a Range Rover, and that the Queen would never drive a truck.

Abraham Lincoln put one protectionist argument pithily: “I don’t know much about the tariff, but I do know if I buy a coat in America, I have a coat and America has the money—if I buy a coat in England, I have the coat and England has the money.” He was right—he did not know much about the tariff. Like the mercantilists, Lincoln did not understand that a country is wealthy if it consumes lots of goods and services, not if it stockpiles metals or paper currency with portraits of presidents on them. If Lincoln buys the London coat he prefers, he cashes in some dollars for British pounds. So someone in London now has dollars. Londoners do not give up pounds just to wallpaper their flats with greenbacks. The Londoner will either (1) buy an American product or (2) trade in the dollars for pounds. If she buys an American product, Lincoln is happy because he preferred the London coat, and the Londoner is happy because she liked the American good. If she dumps her dollars, she will dump them on someone else who wants to buy American goods.5

What if we could just stuff a million rowboats full of American money in exchange for the Queen Mary 2 filled with British goods? Then the Treasury could print billions of five-dollar bills. According to Lincoln’s logic, we would get beautiful sweaters, teapots, and tweed suits,
while the British would get paper! Although Lincoln did not realize it, this would be a 

wonderful deal! But the joke’s on us. Lincoln did not understand that the British accept 
dollars because they can buy American goods and financial assets with them. Money may 

not make the world go around, but money certainly goes around the world. To stop it 

prevents goods from traveling from where they are produced most inexpensively to where 

they are desired most deeply.

The issue is not whether coats will be produced in the United States or not. It is whether 

we will use our valuable resources to produce goods with a higher or a lower opportunity 
cost. By allowing trade, nations coerce their citizens to shift resources away from low 
productivity industries and toward high productivity industries. If nations shift, households 
can enjoy more goods with less sacrifice.

Shifts do cause pain, however, to workers and owners in low productivity industries. But 

protection often costs consumers so much, the government would do better to directly 
compensate the displaced workers and pay to retrain them. Protecting one steelworker’s 
job cost over $100,000, while “saving” a shoemaker’s job costs $77,000 in the early 1980s. More recently, from 2002 to 2006, punitive duties on Canadian lumber drove up the cost of 
a new American house by about $1,000. Further, the logic of protection points toward 
economic stagnation. Most industries and inventions that have raised our standard of living 
have forced others out of their jobs. A few years ago, Xerox produced a television 
advertisement depicting a monk working as a scribe at a monastery, carefully copying over 
pages of documents and prayers. One day his superior gives him a thick scroll to transcribe. 
The harried monk then briskly struts around the corner to a new copier machine, which 
does the job in seconds. Staring blissfully toward Heaven, he proclaims “a miracle.” Can you 
imagine how a well-organized political action committee of monks might demand 
protection? Picture thousands of monks marching on Washington. How many monks could 
be displaced by electronic copiers?

The free market is not a pain-free market. The invisible hand does not protect us the way 
a mother protects her child. If people prefer more stability, perhaps they should opt for 
protection. But the benefits of economic growth and progress do not usually come to those 
who huddle in the corner while their government protects the harbors from Greeks bearing 
gifts and goods.

The world does not admire economists for their sense of humor. But the highlight of 
social science satire came from French economic pamphleteer Frédéric Bastiat during the 
1840s, when France augmented import duties:

From the Manufacturers of Candles, Tapers, Lanterns, Candlesticks, Street Lamps, Snuffers, 
and Extinguishers, and from the Producers of Oil, Tallow, Resin, Alcohol, and Generally of 
Everything Connected with Lighting To the Honorable Members of the Chamber of Deputies.

Gentlemen:
... We are suffering from the ruinous competition of a foreign rival who apparently works under conditions so far superior to our own for the production of light, that he is flooding the domestic market with it at an incredibly low price. ... This rival ... is none other than the sun. ... 

We ask you to be so good as to pass a law requiring the closing of all windows, dormers, skylights, inside and outside shutters, curtains, casements, bull’s-eyes, deadlights and blinds; in short, all openings, holes, chinks, and fissures. ... 

If you shut off as much as possible all access to natural light and thereby create a need for artificial light, what industry in France will not ultimately be encouraged? ... 

If France consumes more tallow, there will have to be more cattle and sheep. ... 

The same holds true for shipping.  

More seriously for our time, Ricardo’s analysis implies that protectionism by wealthy nations condemns lesser developed countries to stagnation. It seems contradictory to offer millions of dollars in foreign aid and loans, while at the same time planting hurdles in front of the recipients. For example, the U.S. Congress, under pressure from domestic sugar producers, has thwarted the development programs of many Caribbean nations. Import quotas tightened from about 6 million tons of sugar in 1977 to just 1.2 million tons in 1998. Should we be surprised that many farmers south of the border found coca a more attractive crop and the underground American drug industry a more willing trading partner? 

Sometimes it helps to imagine protectionist arguments on a small scale. Would a wealthy man be hurt by trading with a poor man? Should J. Paul Getty have made his own shoes rather than buying them? If not, why would the United States be hurt by buying shoes from Malaysia? Would the nation be richer if all people were self-sufficient? If all neighborhoods were self-sufficient? Should individual counties erect trade boundaries? Few would answer “yes,” and of course the Constitution would prevent it. But why should a nation be enriched by turning away goods produced more cheaply abroad? 

After World War II, many nations entered into the General Agreement on Tariffs and Trade (GATT), an organization designed to promote free trade and the forerunner of today’s World Trade Organization (WTO). Later multinational trade negotiations took place, reducing world tariff barriers. Yet the threat of severe isolationist efforts survives, and the next few years appear precarious in this regard. 

Ricardo’s account and our discussion do not prove that tariffs are always wrong. They simply show that tariffs tend to constrict economic growth and that, therefore, most pleas for protection couched in terms of helping the consumer, increasing the number of jobs, or boosting the economy are suspect. Still, a country might prudently use a protectionist policy for national defense purposes or to ensure political stability in a time of acute uncertainty.
A Fork in the Future

Earlier we noted that Ricardo saw two futures for Britain: a bright future as an extroverted trader and a gloomy one as an isolationist. Through comparative advantage, Ricardo foresaw England emerging as the workshop of the world. And he cheerfully declared before Parliament that “this would be the happiest country in the world, and its progress in prosperity would be beyond the powers of imagination to conceive, if we got rid of two great evils—the national debt and the corn laws.” Far from predicting doom, Ricardo directed his audience toward national progress: “Man from youth grows to manhood, then decays, and dies; but this is not the progress of nations. When arrived to a state of the greatest vigour, their further advance may indeed be arrested, but their natural tendency is to continue for ages, to sustain undiminished their wealth, and their population.”

Despite such raptures about trade, some authors persistently portray Ricardo as a pessimistic analyst, just as gloomy but more clever than that other goblin, Malthus. In fact, Ricardo did spend much time analyzing a depressing isolationist future. But we cannot forget that this future was used as a foil for the first path in order to frighten politicians into more laissez-faire policies.

What was the second path? Let us start with the sequence of steps before turning to an analysis. Accepting Malthus’ population principles, Ricardo saw that (1) increasing population leads to higher demand for food, (2) which leads to extending farming to less fertile lands, (3) which leads to higher costs in farming, (4) which leads to higher prices for food, (5) which leads to paying workers more, (6) which leads to lower profits for entrepreneurs, (7) which leads to higher payments to those who own the best lands.

To understand Ricardo’s game plan, we must open the program and identify the players. First and most plentiful are workers. In accord with Malthusian principles, they multiply when wages rise, which in turn reduces their wages. Thus, over the course of a long game, payments will stay at a level high enough to sustain them, according to the customs and expectations of the day. Ricardo does not condemn them to bare biological subsistence, scrounging for scraps and tottering in rags:

"It is not to be understood that the natural price of labour, estimated even in food and necessaries, is absolutely fixed and constant. It varies at different times in the same country, and very materially differs in different countries. It essentially depends on the habits and customs of the people. An English labourer would consider his wages under their natural rate, and too scanty to support a family, if they enable him to purchase no other food than potatoes, and to live in no better habitation than a mud cabin."

Second, we have tenant farmers. But note that they do not own the land they cultivate. Ricardo depicts them as capitalists who rent the land, hire workers, and earn profits. Instead of owning tools in a factory, the farmer owns plows. Ricardo agrees with Adam Smith that capitalists/farmers have a “restless desire” to follow market signals and shift resources and
investments to the most profitable projects. Thus, they perform very important tasks for society, but not necessarily because they like society.

Third, and most powerful, Ricardo describes the wealthy landowners, who rent the land to the farmer. They live a leisurely life, yet ultimately realize more wealth than the other players.

Ricardo revamped economic conventions and the definition of “rent.” Recall the Corn Laws debate. Some claimed that corn cost more because landlords were charging farmers more in rent. Ricardo disagreed, arguing that the price rose because of wartime shortages, which lured entrepreneurs into the farming industry. As they entered, landlords found more capitalists knocking at their doors and bidding up the rental price of land. Thus, land rents were high because the price of corn was high, not vice versa. When blockades tumbled, so would the price of corn, and landlords would have to charge lower rents. In modern economic terms, the desire for renting land is a “derived demand,” determined by the supply and demand for corn.

Ricardo next argued that landlords can charge rents only if there is a demand for their property. Some landowners’ property will be more fertile than others, and rent levels will be established on the basis of this difference in fertility. If Al owns a plot of land that yields 1,000 tons of grain, and Joan owns a plot nearby that yields only 500 tons, Al will be able to charge a higher rate to a capitalist farmer.

Rents arise because all land is not created equal:

When in the progress of society, land of the second degree of fertility is taken into cultivation, rent immediately commences on that of the first quality, and the amount of that rent will depend on the difference in the quality of these two portions of land. When land of the third quality is taken into cultivation, rent immediately rises on the second, and is regulated as before by the differences in their productive powers. At the same time, the rest of the first quality will rise.11

If Ricardo is right, rents emerge as populations grow. When few people need food, they can raise enough by farming only the best land. As mouths multiply, farmers begin cultivating the second-best land. Because the second-quality land produces less, the owner of the better land can now charge rent. Wages and a normal profit on the second land will determine the price of grain. And since costs are lower on better land, a surplus exists. The landlord takes the surplus.

Why did Ricardo’s vision incite frowns and fright? According to it, the path of economic growth ended at a ditch, literally and figuratively. For a while capitalists could expand industrial production and even pay workers higher wages. But soon the happy workers would breed more workers, bidding down wages. How would England feed the hungry crowds? By farming more land. But remember, the additional lands would be less
productive and most costly to cultivate, since farmers began by exploiting the richest land first.

The price of grain would rise. But the capitalist would not profit, because he must pay the workers more so that they can survive. If resources are “to be divided between the farmer and the labourer, the larger the proportion to the latter, the less will remain for the former.”\textsuperscript{12} Furthermore, the landlords who own the best lands collect higher rents when farmers begin tilling inferior land. Who wins? The landlords. Who loses? The capitalists. Who stays the same? The workers, although ultimately starvation could strike when farmers exhaust the lands. Ricardo calls the somber plight the “stationary state.” Literally, hunger forces society to cultivate even ditches. Figuratively, the capitalists and workers are left waving their arms and shouting for help from within a ditch.

Why does Ricardo diverge so strongly from Adam Smith’s merry dream? Smith generally assumes that agriculture will not decay into low productivity and that industry will continually grow more productive. In modern terms, Smith sees constant returns to agriculture and increasing returns to industry, which allows all parties to prosper. Ricardo depicts constant returns to industry and decreasing returns to agriculture. Of course, Ricardo does hold some hope that technology will periodically rescue the economy. The tendency for profits to fall “is happily checked at repeated intervals by the improvements in machinery, connected with the production of necessaries, as well as by the discoveries in the science of agriculture which enable us to relinquish a portion of labour before required, and, therefore, to lower the price of the prime necessity of the labourer.”\textsuperscript{13} Still, we cannot confidently depend on technology always to save us.

But remember Dickens’ A Christmas Carol. The ghost tells the tale of the gruesome future Christmas, defiled by hunger, dread, and despair. Scrooge timorously asks, Is this the way Christmas must be? With the ugly clang of chains and a haunting, raspy wheeze, the ghost leaves tomorrow to Scrooge.

Ricardo is not the goblin some depict, but more like the ghost from A Christmas Carol, warning England that insular, greedy policies will bring harder and greedier times, while an open, extroverted trading position can promise happier days. “I contend for free trade in corn, on the ground that while trade is free, and corn cheap, profits will not fall however great be the accumulation of capital,” he wrote. Economic growth confronts no ditches. And although obstacles arise from “the scarcity, and consequent high value of food and other raw produce . . . let these be supplied from abroad in exchange for manufactured goods, and it is difficult to say where the limit is at which you would cease to accumulate wealth.”\textsuperscript{14}

Ricardo’s analyses proved fertile for criticism and extension. Like Malthus he underestimated the “restraint” of workers. They did not propagate as quickly as he feared. Milton Friedman, as noted previously, holds a pencil as his emblem of economic freedom. Sometimes the classical economists sound as if they should be holding rabbits’ feet—not for luck, but to symbolize their perception of man’s breeding propensity. Like Malthus, Ricardo
bitterly opposed the Poor Laws, because they ultimately brought hunger, insisting that “every friend to the poor must ardently wish for their abolition.”

Ricardo’s blasts at landlords and depiction of rents came to the United States in earthy and fervent language through Henry George’s Progress and Poverty in 1879. George, a journalist with messianic visions, led disciples in the “single-tax movement.” Incensed by undeserved gain, George condemned landowners who simply collect rents while others struggle to generate wealth. Proposing a massive tax on land to absorb rents, George divined with more verve than any Old Testament prophet that it would abolish poverty; tame the ruthless passions of greed; dry up the springs of vice and misery; light in dark places the lamp of knowledge; give new vigor to invention and a fresh impulse to discovery; substitute political strength for political weakness; and make tyranny and anarchy impossible.15

There are several problems with the proposal. First, economists distinguish between “economic rent,” which Ricardo discussed, and the simple rent tenants pay landlords. According to Ricardo, economic rent is a payment beyond what is necessary to keep land or labor or capital in its present use. Since land can only be used for grain in Ricardo’s analysis, nothing has to be paid to keep it as farmland. Owners have no choice but to use it for grain. Therefore any payment to landlords is economic rent. Baseball great Willie Mays used to say that he would play for free. If he would, any payment he received would be economic rent, because it was beyond what was necessary to get him to play.

Movie stars receive economic rents also. Let us say that Sylvester Stallone constantly makes the choice between acting and working as a professional seamster. If he received less than $30,000 per movie for acting, he would switch to sewing hems and cuffs. Thus if a new movie, Rocky Meets Rambo II in 3D, paid him $5 million, we would say that $30,000 was “transfer earnings” and $4,970,000 was economic rent. Maybe Henry George would have been brave enough to take away all the rent.

The point is that part of a payment which keeps land, labor, or capital in a particular use is not economic rent, but transfer earnings. Any payment above that is economic rent. Therefore, if a property owner would convert his land into a carnival tenting ground if he did not receive $1,000 per month from tenants, the first $1,000 he receives is not economic rent. Beware of the ambiguity of the language. What apartment tenants usually call rent is not economic rent unless it exceeds the necessary payment. But how would Henry George know which part of the total payment is economic rent to be taxed? Here he would need even more heavenly help than he has revealed.

The single tax on land movement also faces moral hurdles to either leap or transcend. If fairness demands taxing economic rents, fairness requires taxing economic rents from land, labor, and capital. How would George distinguish between Stallone’s transfer earnings and economic rents? What about salaries of senators and famous economists? Not everyone is as honest as Willie Mays.
Although George never accomplished his mission, he became famous throughout the United States and England, where devotees set up single tax societies to spread the good word. And the good book, Progress and Poverty, spread more quickly than laborers multiply. Despite the movement’s ultimate decline, George fans can proudly point to property taxes as a source of state and local finance. But they cannot point as confidently as they could sixty years ago. George overestimated the future importance of rents and rental income. Governments at every level have grown tremendously in the last century. Even if governments could take all rents without rebellion or severe recession, rents would not come close to covering expenses. In 1929, property rents accounted for about 6 percent of national income. The percentage has steadily dropped to well under one percent today. Whereas property taxes once provided 65 percent of state and local budgets, they now supply about 17 percent.

If George caught a Ricardian pitch and ran amok, Ricardo’s contemporary Malthus tried to bat it back. On the Corn Laws question, Malthus accepted much of Ricardo’s analysis regarding rent and diminishing returns from farming. But he posited a four-part rebuttal. First, he maintained that the Corn Laws actually induced more domestic grain output because they boosted grain prices. Second, Malthus thought grain was too important a commodity to be left to foreign producers. Third, he concluded that higher grain prices actually increased wages to workers, since workers are paid according to the price of grain. Malthus thus claimed that higher wages would more than compensate for higher food prices. Ricardo disagreed. In modern terms, he thought that higher “nominal” wages would not be higher “real” wages; that is, they would not allow laborers to buy any more than they could before. To Ricardo, Malthus’ argument sounded like the dictator who, smiling and winking at the masses, promises a doubling of salaries. The crowd cheers. They salute the five-story posters of the despot and rejoice. The next day they go to the stores and find that the employees of the stores spent the whole night marking up the prices by 100 percent.

Fourth, Malthus rather feebly defended the landlord by complimenting Ricardo, who had Flattery now become, by his talents and industry, a considerable landlord; and a more honourable and excellent man, a man who for the qualities of his head and heart more entirely deserves what he has earned . . . I could not point out in the whole circle of landlords.16

got Malthus nowhere, except perhaps an invitation to Ricardo’s country retreat. For Ricardo never said that landlords intentionally suck the lifeblood from a nation. Like the vampire, they are compelled by forces outside their power. Ironically, Ricardo the lavish landlord angered the landlords, while Malthus the modest teacher infuriated the humble folk.
Ricardo vs. Malthus on Gluts and Method

The Ricardo-Malthus show featured more than landlord debates, however. The two economists also disagreed about economic depressions. Malthus believed in “general gluts,” an ugly phrase meaning that business sometimes supplies more goods and services than people want to buy. Ricardo would have sooner believed in a Godwinian Utopia than in general gluts. Ricardo embraced “Say’s Law,” named for the Frenchman J. B. Say, who proved logically that general gluts were fantasies. (Scientists love to discover laws and graphical curves, perhaps because custom lets the laws and curves be named for the discoverer. In economics, we also have Lorenz curves, Okun’s Law, and Harberger triangles.)

What is Say’s Law? Workers and owners of land and capital are paid wages, rents, and interest that add up to the sale price of the product. Every cost in manufacturing becomes someone’s income. Therefore, consumers, who are simply laborers, capitalists, and landlords after they get home from work, can afford to buy all that has been produced. Say’s Law is generally known by the slogan: “supply creates its own demand.”

Say never forbade “partial gluts,” which occur when consumers decide to purchase less of a particular product. Eventually, the seller will erase the partial glut by lowering the price. But to Say, Smith, Hume, and Ricardo a general glut remains impossible, because the consumers must do something with their money, and people have infinite desires for more material goods.

Malthus cried nay. First of all, he noticed that in the post-Napoleonic Wars depression of 1818, unemployment seemed very high. But how could he invade the tight circle that Say drew and Ricardo emboldened? He began by tracing the circle and agreeing that consumers could buy all the goods offered, but what if they did not feel like spending all of their money? What if they preferred to save or hoard? Would this not leak out of Say’s circle of buying and leave the merchants sitting on top of unsold merchandise?

Ricardo swiftly struck back. If consumers save, they keep their money in banks, which then lend to those who do want to spend money on consumer goods or investment goods. Either way, someone is spending. Even Adam Smith knew that: “What is annually saved is as regularly consumed as what is annually spent, and nearly in the same time too; but . . . by a different set of people.”17 Ricardo then scolded his friend “Mr. Malthus,” who “never appears to remember” this simple point.

Though he convinced few economists, Malthus still sensed a gap between savings and investment. To cure a general glut, he proposed “the employment of the poor in roads and public works, and a tendency among landlords and persons in property to build . . . and to employ workmen and menial servants” as “the means most within our power and most directly calculated to remedy the evils.”18
But Ricardo responded that Malthus’ Principles present “hardly a page” without “some fallacy.”

Even if Ricardo won the day, a century later, J. Maynard Keynes resurrected the loser. In a resplendent paean, Keynes paid tribute to the “first of the Cambridge economists” for his theory on depressions and at the same time denounced Ricardo. “If only Malthus, instead of Ricardo, had been the parent stem from which nineteenth century economics proceeded what a much wiser and richer place the world would be today!” Keynes surely exaggerates here both in the extent of Ricardo’s dominance (he “conquered England as completely as the Holy Inquisition conquered Spain”) and the similarity between his own analysis and Malthus’. Though Keynes and Malthus both rejected Say’s Law, Malthus made little headway relating saving to investment and urged public works to slow investment, not to stimulate sales of goods, as Keynes did. Nonetheless, if Keynes says Malthus inspired him, who are we to disagree?

The real difference between Malthus and Ricardo did not revolve around gluts, rents, or protection but rather method. Both lived in an age of scientific discovery. Both searched for cause-and-effect links. Both predicted what would occur because of these links. But Ricardo focused more intensely on the intricate sequence of steps along the way. Malthus seemed content to find a general principle and then apply it to the world. Recall Ricardo’s careful seven-step path to the stationary state. Neither Smith nor Malthus constructed such rigorous models. Under the guidance of James Mill, Ricardo attempted long deductive chains of reasoning. He wanted to derive propositions as certain as Euclidean geometry or Newtonian mechanics. Sometimes his assumptions or first premises were simply wrong. But given those premises, his theory was impregnable. Impregnable, yes; useful, perhaps not. Keynes and Joseph Schumpeter both accused Ricardo of choosing assumptions or examples that ensured the result he desired. Schumpeter called this the “Ricardian Vice.” And whom else did Schumpeter accuse of suffering from the Ricardian Vice? Keynes.

Ricardo discussed his methodological differences amiably: “Our difference may in some respect, I think, be ascribed to your considering my book as more practical than I intended it to be. My object was to elucidate principles, and to do this I imagined strong cases.” Ricardo also preferred long-run analysis to short-run descriptions, telling Malthus that “you have always in your mind the immediate and temporary effects of particular changes—whereas I put these . . . aside, and fix my whole attention on the permanent state of things which will result from them.” No wonder correspondence shows that Ricardo refused to grant Malthus’ empirical observations. They either did not fit into Ricardo’s strong case or appeared to be fleeting. But because Malthus never constructed sophisticated analytical models, he gained the reputation for fickleness. His contemporary, Robert Torrens, wrote that “in the leading questions of economical science, Mr. Malthus scarcely ever embraced a principle which he did not subsequently abandon.” Later, Keynes earned the same reputation, permitting his most acerbic critics to praise his eclecticism—in choosing the worst from the best.
Despite the attacks by Keynes and Schumpeter, exalted economists including Marx, Walras, Marshall, and Wicksell have declared Ricardo’s preeminence. One prominent student of economic method recently proclaimed that “if economics is essentially an engine of analysis, a method of thinking rather than a body of substantial results, Ricardo literally invented the technique of economics.”22

One gets the impression that when Malthus died, some came to the funeral to mourn, others to make sure he really was dead. Ricardo attracted more admirers for his intellect, for his kindness, and for his character. Here was a wealthy man who could have spent his life luxuriating in the country and traveling throughout the world. Instead he used his leisure to study perplexing questions and derive abstract, abstruse, and, he thought, correct solutions. Upon teaching himself about the world, he taught others by book, by newspaper, and by Parliamentary speech. His law of comparative advantage and theory of economic rent still appear in textbooks, as persuasive and important as ever.

Although Ricardo’s theories are taught throughout the world, it is the European nations that may best test Ricardo’s legacy. They have fulfilled their 1992 pledge to dismantle all remaining trade barriers among themselves, giving Ricardo a partial victory. For a complete victory, the European Union countries must also keep their second pledge—not to erect fortresses on their shores that would prevent countries such as the United States and Japan from participating in their dynamic program for prosperity. So far, the results are mixed. Though U.S. financial firms have made strong inroads (often by merging with European entities), somehow French farmers continue to win special favors to the annoyance of American and Australian agriculture. Despite heaping praise and saintly adjectives on Nelson Mandela, the Dutch are blocking South Africa’s cut flowers; German potato farmers are protesting their spuds; and French winegrowers are keeping out South African chardonnays. The most divisive issue might be bananas! Europe continues to protect its former colonies in Africa from the banana growers of the Caribbean and Latin America. So far bananas have been a strong weapon against free trade. Ricardo would be disappointed, but hopeful.
CHAPTER V
The Stormy Mind of John Stuart Mill

Almost all renowned British economists since Adam Smith have been linked through close friendships. Remember that Smith’s good friend David Hume was a “godfather” to Thomas Malthus, who was an intimate friend of David Ricardo, whose comrade James Mill encouraged his economics. James begot John Stuart Mill. A slight break occurs since Mill did not befriend his successor Alfred Marshall. But Marshall learned from Mill’s works (and from the economist F. Y. Edgeworth, nephew of Ricardo’s friend Maria Edgeworth) and then taught Keynes, who dominated British economics until World War II and produced numerous prominent disciples.

The life of John Stuart Mill presents a fascinating personal history shaped by the force of ideas. Through him we see the philosophical conflicts underlying classical economics. Although economists sometimes debate the originality of his contributions to economic theory, all admit that Mill asks troubling questions about the ethical foundations of economics and capitalism.

One of comedian Jimmy Durante’s most famous lines was: “Everybody wants to get into the act.” Nearly every intellectual after Isaac Newton wanted to get into the scientific act and discover precise answers to their questions. Smith, Ricardo, and Malthus wanted to be the Isaac Newtons of economics, by discovering laws of nature. The law of comparative advantage, Say’s Law, and the law of population all arose in this period. Around the same time, Jeremy Bentham sought to be the Newton of the moral universe, a moral scientist. James Mill fell under the spell of the potions brewed by moral scientists, as well as by economic scientists. In love with the taste of Bentham’s ideas, James Mill forced his son to drink.

Born in London in 1806, John Stuart still had the taste for mother’s milk when his rigorous education began. James taught him Greek at the age of three. By eight, the boy had read Plato, Xenophon, and Diogenes in Greek and begun learning Latin. His mother was not a warm person. With baby John Stuart’s premature knowledge of the classics and her frigidity, he might have mistaken her for the Venus de Milo. Between the ages of eight and twelve, Mill exhausted well-stocked libraries, reading Aristotle and Aristophanes and mastering calculus and geometry. During his spare time he was forced to teach Latin to his brothers and sisters. Any hobbies? He read histories. Any friends? Not a one.

At fourteen, his father began strolling with John Stuart through the woods while delivering lectures on Ricardo’s economics: “He expounded each day a portion of the subject, and I gave him next day a written account of it, which he made me rewrite over and over again until it was clear, precise, and tolerably complete.”1 Imagine the poor boy trying
to scribble notes on Ricardo’s complex theories while his father leads him down wooded paths.

Because of such rigors, which turned Mill into an intellectual thoroughbred and an emotional hobbyhorse, he remained humble, denying that he had an unusually quick mind, accurate memory, or energetic character. In “all these natural gifts I am rather below than above par; what I could do, could assuredly be done by any boy or girl of average capacity.” Nor was Mill sure he knew any more than other children until his father took him for a walk through Hyde Park and assured him so. But do not feel proud, James warned: Anybody could have done it—given a father like me. John Stuart was both the beneficiary and the victim of such a father, who gave his son “an advantage of a quarter century” over his contemporaries.²

But this advantage robbed from his heart what it had added to his brain. What could be more pathetic than his remark, “I was never a boy”?³ He socialized with his father’s friends, none of whom played tag or other children’s games, and appeared as solemn as a loser on election day. As the spring of 1822 turned the thoughts of other boys his age to young lasses in meadows, it excited only Mill’s intellect, for it was then that he discovered Jeremy Bentham’s utilitarianism in the three-volume Treatise on Legislation.

When I laid down the last volume . . . I had become a different being. The “principle of utility” understood as Bentham understood it, and applied in the manner in which he applied it . . . fell exactly into place as the keystone which held together the detached and fragmentary component parts of my knowledge and beliefs. It gave unity to my conception of things. I now had opinions; a creed, a doctrine, a philosophy; in one among the best senses of the word, a religion; the inculcation and diffusion of which could be made the principal outward purpose of a life. And I had a grand conception laid before me of changes to be effected in the condition of mankind through that doctrine.⁴

For the next few years Mill joined his boyhood friends James Mill and David Ricardo in preaching the Benthamite gospel through the Westminster Review. The Review made considerable noise in the world, and gave a recognized status, in the arena of opinion and discussion, to the Benthamite type of Radicalism, out of all proportion to the number of adherents. . . . The air of strong conviction with which they wrote, when scarcely anyone else seemed to have an equally strong faith in as definite a creed . . . made the so-called Bentham school in philosophy and politics fill a greater place in the public mind than it had held before.”⁵

Jeremy Bentham: Pleasure, Pain, and Arithmetic

What was this Benthamite gospel that attracted such a persuaded and persuasive flock? Just as nature placed the earth under the force of gravity, he said, nature “has placed
mankind under the governance of two masters, pain and pleasure.6 From these laws Bentham discovered both a descriptive and a prescriptive religion. Since all human beings like pleasure and hate pain (masochists notwithstanding, although they prefer pain only because it gives them pleasure), they choose to do that which gives them pleasure. In its prescriptive chapters, the doctrine implores human beings to choose the path of pleasure. So far this sounds like fun, like the hedonism of the ancient Greek Aristippus. But Bentham adds one ethical caveat: when choices affect others, individuals should choose the alternative that maximizes the total pleasure of all. “Greatest happiness for the greatest number” is the cry of the utilitarian movement. And responsible government should engrave this in legislators’ minds.

In words that made democrats misty-eyed, Bentham argued that all people count equally when determining happiness. If the king stubs one toe, this counts half as much as his serving wench Jane stubbing two. If giving Jane a bandage helps her more than it hurts the king, she gets the bandage. No wonder aristocrats prayed for Bentham to stub his tongue before he could spread this gospel.

Still, this formulation was not mathematically precise enough for the Newton of the moral universe. Bentham devised a method of quantifying the amount of pleasure and pain, called the felicific calculus. As we all know, some experiences are more pleasurable or painful than others. Why? Any single experience can be measured by four factors: (1) intensity, (2) duration, (3) certainty, and (4) propinquity. People prefer long, certain vacations to the mere possibility of a weekend off. Hilarious comedians bring more pleasure than mildly amusing ones.

Bentham apparently gave himself so much pleasure devising this calculus that he prolonged it by adding three more factors: fecundity, impurity, and the effect on others. Some pleasures lead to more pleasures. If by attending a summer frolic, Mark increases the chances of making new friends, the frolic shows the fifth felicific factor, fecundity. If the frolic might bring pain, because Mark befriends the football player’s wife, the frolic shows the sixth factor, impurity (the chance it has of producing opposite sensations). Finally, if many people will laugh when the football player rearranges Mark’s face, we must consider their pleasure.

With these tools Bentham added complex instructions. At first glance they remind one of the assembly directions that accompany certain Japanese appliances, which might as well be written in the original language, because indecipherable Japanese is at least prettier than unintelligible English. A closer look, though, reveals that Bentham actually made sense:

Begin with any one person . . . and take an account,

1. Of the value of each distinguishable pleasure which appears to be produced by it in the first instance.

2. Of the value of each pain which appears to be produced by it in the first instance.
3. Of the value of each pleasure which appears to be produced by it after the first. This constitutes the fecundity of the first pleasure and the impurity of the first pain.

4. Of the value of each pain which appears to be produced by it after the first. This constitutes the fecundity of the first pain and the impurity of the first pleasure.

5. Sum up all the values of all the pleasures on one side, and those of all the pains on the other. The balance, if it be on the side of pleasure, will give the good tendency of the act upon the whole, with respect to the interests of that individual person; if on the side of pain, the bad tendency of it upon the whole.

6. Take an account of the number of persons whose interests appear to be concerned; and repeat the above process with respect to each. Sum up the numbers expressive of degrees of good tendency . . . do this again with respect to each individual, in regard to whom the tendency of it is bad . . . Take the balance; which, if on the side of pleasure, will give the general good tendency of the act . . . if on the side of pain, the general evil tendency with respect to the same community.7

Bentham must have taken step 3, long-term pleasures, quite seriously. He bequeathed his body to the University of London, to be wheeled out for major administrative meetings. His body, post-taxidermy, still resides there. Unfortunately, some sporting, pleasure-seeking students stole his head—which just shows how difficult it is to measure fecundity and purity.

Reading Bentham satisfied John Stuart Mill’s cravings for scientific precision and gave him a new way of looking at social intercourse. He quickly joined the fight for Bentham and his Philosophical Radicals, who included some prominent Parliament members as well as writers. Ironically, these champions of pleasure were about as joyful as Kafka.

In politics, Bentham’s Radicals battled bravely for democracy and free speech. From free speech comes truth, they declared. They fought the Stamp Act, which taxed periodicals, and opposed various restrictions on assembly. (Later in his life John Stuart Mill would raise the banner of women’s suffrage.) On Ricardian grounds they attacked the Corn Laws. Jeremy Bentham denounced the barbaric English prison system, arguing that punishment should only be used instrumentally, to deter, not to wreak vengeance masquerading as justice. After all, a criminal is just a person who decides that crime pays, Bentham submitted. The real answer is to adjust the costs. Although Bentham once proposed that the motto of the government be “Be Quiet,” the Radicals were ready to abandon laissez-faire whenever the benefits outweighed the costs: “I have not, I never had, nor ever shall have, any horror sentimental or anarchial, of the hand of government. I leave it to Adam Smith . . . to talk of invasions of natural liberty.”8 Their god was utility, not an invisible hand, even if their god usually worked through the invisible hand.
Incidentally, their god certainly was not the one associated with churches, synagogues, and mosques. James Mill simply could not reconcile an evil world with a good maker. John Stuart Mill vividly recalled his father’s atheistic rantings.

I have a hundred times heard him say, that all ages and nations have represented their gods as wicked, in a constantly increasing progression, that mankind have gone on adding trait after trait till they reached the most perfect conception of wickedness which the human mind can devise, and have called this God, and prostrated themselves before it.9

During the 1820s and 1830s, the Radicals won many political wars and skirmishes, far beyond anyone’s expectations, including John Stuart Mill’s. To support himself, Mill joined his father in the East India Company in 1823. Like Malthus and Keynes, who would later work for the government’s India Office, Mill never made it to India. During the same year he joined the company, Mill founded the Utilitarian Society, where other young Benthamites and he would debate and study regularly for long periods of time with intensity and in propinquity. Their chief opponents were romantics, utopians, and socialists, who all seemed too high in the clouds of Coleridge’s poetry to win earthly debates.

The Thinking Machine Conks Out

During this period Mill may have taken Benthamite precision too far and completely forgotten the ultimate goal, happiness: “The description so often given of a Benthamite, as a mere reasoning machine, though extremely inapplicable to most . . . was . . . not altogether untrue of me.”10

He had his mid-life crisis at the age of twenty. The reasoning machine broke, and springs, gaskets, and wires flew about. For years he had “what might truly be called an object in life; to be a reformer.” Yet one winter day in 1826, he was “in a dull state of nerves . . . one of those moods when what is pleasure at other times, becomes insipid or indifferent.” He asked himself a fateful question and received a devastating answer:

Suppose that all your objects in life were realized; that all the changes in institutions and opinions which you are looking forward to, could be completely effected at this very instant: would this be a great joy and happiness to you? And an irrepressible self-consciousness distinctly answered, “No!” At this my heart sank within me: the whole foundation on which my life was constructed fell down. All my happiness was to have been found in the continual pursuit of this end. The end had ceased to charm, and how could there ever again be any interest in the means? I seemed to have nothing left to live for.11

For six months he despaired, often contemplating suicide. He simply had never developed any human feelings. He only saw the veins in flowers. While romantics wore roseate glasses, his eyes stripped the world of all tints and hues, like turpentine. Years later Nietzsche would announce that “God is dead.” For Mill, robbed of love by a frigid father and left with nothing
but reason, man was dead. About his father Mill wrote: “For passionate emotions of all sorts, and for everything which has been said or written in exaltation of them, he professed the greatest contempt. He regarded them as a form of madness.”

In an age of reason, Mill longed for passion. Mill was the dupe not so much of rationalist philosophers, but the victim of their incompetent, zealous disciples. Hume, for one, insisted that reason always be the “slave of the passions.” Indeed, even Bentham introduced reason only as a method of comparing passions, not replacing them.

Psychoanalysts have quite a case before them. Perhaps Mill was tortured by guilt springing from a repressed death wish directed against his tyrannical, inescapable father. But Mill was worse off than the Greek hero. At least Oedipus had a loving mother. In his three-hundred-page autobiography, Mill does not even mention his mother! An early draft suggests why:

A really warm hearted mother would in the first place have made my father a totally different being and in the second would have made the children growing up loving and being loved. But my mother with the very best intentions only knew how to pass her life in drudging for them. . . . I thus grew up in the absence of love and in the presence of fear.

His mother did not leave an autobiography. Who knows whether marriage to James Mill depleted her ability to love? Suffice it to say that the Mill home was not a place to drop by for hot chicken soup and warm company.

**Rebirth as Romantic**

Just as Mill floundered in the intellectual tide called rationalism, he was saved by an undertow called romanticism. In his Birth of Tragedy, Nietzsche depicted two powerful forces clashing in the human psyche: Apollonian and Dionysian. Apollo is the spirit of reason, order, and Mozart symphonies. Dionysius is the spirit of caprice, emotion, and Puccini operas. When eighteenth-century rationalism drove Mill to despair, he turned to the poetry of Wordsworth and even Coleridge. Wordsworth’s lush portraits of natural beauty finally inspired feelings of joy and the discovery of imagination. The world finally seemed sensuous. By embracing beauty, Mill could battle to drive outward the narrow borders of his mind and the imperial reign of his father.

Like Coleridge’s ancient mariner, Mill embarked on an intellectual odyssey, visiting Carlyle and the French philosopher Auguste Comte, whose empirical emphasis influenced Mill. Sometimes the mariner seemed to go overboard in praising his new godfathers and rejecting the old ones. After befriending Mill, an arrogant Comte demanded financial support. Mill acquiesced and even asked friends to give money to Comte. After about a year, the charity stopped. Instead of thanking his benefactors, Comte mailed a nasty letter to Mill lecturing him on the duty to support penniless pundits. Although Mill was sometimes
known as the “Saint of Rationalism,” this episode in his life must be headed “The Saint as Sap.”

After Mill’s father died in 1836, John Stuart began publishing articles that showed how far he had sailed from the Philosophical Radicals. His 1838 essay “Bentham” savaged Benthamism for impoverishing the spirit. Spiritual perfection should be a personal goal in its own right, regardless of pain and pleasure. Bentham was better when he stuck to legislative questions, rather than personal morality, Mill added condescendingly. Two years later, Mill glorified Coleridge beyond reason.

His father’s death was probably both liberating and troubling for Mill. Gertrude Himmelfarb reports that on James’s death, John Stuart suffered a “brain fever,” leaving him with a twitching eye. Placing the son on the psychoanalyst’s couch again, could the twitch have resulted from attempts to repress relief at his master’s passing?

The odyssey was not just intellectual and aesthetic. For the first time John Stuart Mill fell in love, balding head over tattered heels in love. Unfortunately, Harriet Taylor was married with children. But this did not stop Mill, who was still Bentamite enough to pursue pleasure. Their “affair” took the form of a nonsexual ménage à trois. Harriet lived with her husband, but Mill visited when John Taylor was out, and Harriet spent many summer weekends with Mill. This arrangement lasted from 1830 until 1851, when Mill and Harriet married. John Taylor had died two years before, but Mill thought a long engagement would sanitize a scandalous liaison. Mill attributed almost all of his famous works to Harriet’s wisdom. She was a goddess to him. All the warmth and strength he had longed for in his marble mother, he found in a loving wife:

[H]er mind was the same perfect instrument, piercing to the very heart and marrow of the matter; always seizing the essential idea or principle. The same exactness and rapidity of operation, pervading as it did her sensitive as well as her mental faculties, would, with her gifts of feeling and imagination, have fitted her to be a consummate artist, as her fiery and tender soul and her vigorous eloquence would certainly have made her a great orator, and her profound knowledge of human nature and discernment and sagacity in practical life, would, in the times in which such a carriere was open to women, have made her eminent among the rulers of mankind. Her intellectual gifts did but minister to a moral character at once the noblest and the best balanced which I have ever met with in life.

Many of Mill’s friends thought he was hallucinating. Historians still argue among themselves in assessing Harriet’s contributions. One thing is certain: Mill felt privileged that such a beauty would choose to love him, and she ended up influencing him immeasurably.

With Harriet in hand and romance spinning in his head, we might expect Mill to have lived out his life composing odes to Grecian urns. But having traveled the world metaphorically and literally, our romantic hero returns home—more of a man than before. Home was Benthamism. But Mill would alter and improve it. The rest of his writings and political career
would reflect an enlightened utilitarianism. Mill insisted that the greatest happiness depends upon more than mere pleasure. The joy of sensing a Beethoven symphony or Michelangelo masterpiece is more than just pleasure. Great works and deeds bring joy by lifting the spirit. Bentham had suggested that poker is as good as poetry, if the pleasure given is equal. Mill disagreed. Switching metaphors, Mill countered that he would rather be a discontented Socrates than a well-fed pig. Mill enhances utilitarianism by invoking Platonic virtues of honor, dignity, and self-development. For this reason, Mill became an ardent advocate of public education. To him, statecraft must be soulcraft.

In 1848, Mill published his chief work on economics, Principles of Political Economy. For decades it dominated the book market like the monopolies Mill discussed within its pages. Oxford relied on the Principles until 1919, probably because its successor was written by Marshall, a Cambridge man. Indeed, the works of all the great economists illuminate long paths. From 1776 to 1976 just five books reigned over economics in nearly unbroken succession: Smith’s Wealth of Nations, Ricardo’s Principles, Mill’s Principles, Marshall’s Principles, and Samuelson’s Economics. What they lack in imaginative titles, they make up in endurance.

**Mill’s Method**

Mill’s struggle with rationalism and romanticism finds its way into his Principles when he discusses economic methods. James Mill, following Hobbes, thought of social science with the same precision with which one performs geometric proofs. From general premises James Mill deduced specific conclusions and policies. The general premises usually centered on “laws” of human nature such as self-interest. There could be no doubt about the inferences, any more than one could deny that a triangle has three angles and three sides. From his father, Mill learned economics as syllogistic sequences, or rationalism.

During his crisis and reeducation years, Mill learned a less precise method, induction. In many cases, social scientists can only spy on their subjects and hypothesize patterns or trends, rather than proclaim incontrovertible laws. Induction has two humble goals: discover behavior patterns and make predictions based on those empirical patterns. That induction is less precise does not mean that it is necessarily inferior to deduction. Some subjects do not lend themselves to deduction. Social sciences cannot be deductive and precise, because people do not always behave rigidly and consistently. Deduction may be more appropriate for predicting the behavior of corpses. In a veiled jab at his deceased father, Mill warned that a “wise practitioner” would not “deduce the line of conduct proper to particular cases, from supposed universal practical maxims; overlooking the necessity of constantly referring back to the principles of the speculative science.”

In accepting induction as a proper scientific tool, Mill did not discard deduction. With seemingly Solomonic wisdom, Mill sliced out a role for each. Each method could balance the other. If some economists deduced from flawed a priori principles, empiricists could throw
observed counterexamples in their faces. For example, Malthus’ law of population was first presented as a deductive truth. We can disprove Malthus’ law by observing well-stocked supermarket shelves. On the other hand, deductive theoreticians can check the work of empiricists for logical consistency. For instance, a soft-headed empiricist could argue that because the migration of storks is highly correlated with the human birthrate in New York (it is), a good policy for controlling the human population would be to shoot down storks. Through logic a rationalist could show that the flawed observations do not make sense. (Of course, a hard-hearted empiricist would discover the independence of the events for himself once he started shooting storks and counting babies.)

Mill did not always blend the two methods. In fact, the Principles proposes a schizoid approach to production and distribution. Fixed, universal laws control production: “There is nothing optional, or arbitrary in them.” Therefore, deduction applies. But “it is not so with the Distribution of Wealth. That is a matter of human institution solely. The things once there, mankind, individually or collectively, can do with them as they like.”19

Whereas Ricardo based both his production and his distribution analyses on carefully identified roles played by landlords, workers, and capitalists, Mill rejected such eternal divisions in the distributive process. Yes, the landlord would receive rents under the Ricardian analysis. But society may decide not to let him, Mill insists.

For two reasons Mill’s bifurcated scheme seems mistaken. First, production laws may not be fixed. For example, technological advance cannot be predicted or assured. Mill does hint at this objection. Second, distribution cannot be neatly separated from production.

One does not have to be a tax-slashing fanatic to suspect that confiscatory tax rates might change an individual’s activity. Boris Becker was a wealthy German tennis player. Germany taxed wealthy people heavily. How much tax did Becker pay to Bonn from his million-dollar purses? None. He moved to Monaco. He shifted his production because of distributional measures. Of course, taxes do not explain everything. Only a fool would conclude from the Becker story that Mikhail Baryshnikov left the Soviet Union because of tax rates. In 2006, Irish rock star Bono and his U2 bandmates quietly moved their business office from Dublin to the Netherlands in order to avoid higher Irish taxes. Some of Bono’s fans were disappointed since, at Dublin concerts, Bono had scolded the Irish prime minister for not spending more tax money on Third World poverty relief.

In subsequent chapters and editions of Principles Mill would relent on his claim of a clear methodological distinction between production and distribution.

To summarize all of the important models presented in Principles might take more space than the original work, because Mill attempted a comprehensive review of economic doctrine, adding numerous improvements. He wrote convincingly about the management of the firm; supply and demand as an equation rather than a ratio; Say’s Law; and demand as a major factor in Ricardo’s law of comparative advantage. As Nobel laureate George Stigler
observed, Mill’s advancements form a very peculiar list: they are only vaguely related to each other. Rather than building a new foundation, Mill replaced many weak stones at many different levels.

Because Alfred Marshall performs similar repairs on Mill’s work, we might better spend this chapter examining Mill and the economics of social policy. Except for Marx, Mill may have been the last of the “political economists,” as famous for his political tracts On Liberty and Utilitarianism as for his economics. By the end of the nineteenth century, economics as a science grew so specialized that few could master both it and philosophy. By the mid-twentieth century, few could master more than a couple of topics in economics alone. Today we have a choice, states Nobel laureate Robert Solow, between saying more and more about less and less, or less and less about more and more.

In Mill’s earlier book On Logic, he posited a crucial distinction between positive and normative works. Positive economics describes and predicts what actually takes place in the world. Normative economics advocates what should take place based on one’s moral philosophy. Mill as reformer is a normative role. Of the five books of the Principles, the first three tend to be descriptive, while the latter two show Mill in his normative role, fervently devoted to enhancing the human condition through greater wealth equality, women’s rights, and education.

Anyone can carry placards and shout slogans demanding equality, happiness, or the presence of an NFL team in Baltimore. But results do not come from banners alone any more than good weather comes to Siberian towns that rename themselves “Paradise.” The majesty of Mill is that he tied his normative goals to realistic analyses.

**Taxation and Education**

Mill delicately balanced the positive and normative in his chapters on taxation. In fact, his position on income tax reflects the spirit of the 1986 U.S. Tax Reform Act, which attempted to “flatten” the progressive income tax. Like Adam Smith, Mill called for a proportional income tax. This takes the same percentage of income from earners regardless of their income level. Contrast this with a progressive income tax, which takes an increasing percentage as income rises. Mill’s analysis here actually mirrors our earlier Boris Becker example, for Mill fears that a progressive tax might discourage work:

To tax the larger incomes at a higher percentage than the smaller, is to lay a tax on industry and economy; to impose a penalty on people for having worked harder and saved more than their neighbors.

Although the proportional tax would apply to most of the population, Mill would exempt the poor from paying taxes.
For most of this century, the United States rejected Mill’s advice and accepted a progressive income tax. Taxpayers could fall into one of fourteen brackets, ranging from 11 to 50 percent. If a person received a raise, she likely moved to a higher bracket. But Congress finally took Mill’s advice and passed the 1986 Tax Reform Act. The Act set up only two basic brackets, 15 and 28 percent. Although not a “flat” tax system, the Act appeared as two plateaus, rather than as an increasingly steep mountain. Also in line with Mill, the Act exempted more poor people from paying any income taxes. Though Congress amended the 1986 Act a number of times, and has created several more “plateaus,” the basic logic continues, that is, fewer loopholes and lower rates than in the 1960s and 1970s.

Why did Congress finally honor Mill, even if partially and inadvertently? A variety of good and bad reasons explains any committee act. As someone once said, chaos in the world proves conclusively that God is a committee. Proportional tax advocates argue that progressive taxes distort the incentive to augment income. Moreover, a progressive code encourages people to evade taxes as their income rises. They may do this legally, through tax shelters and creative accountancy, or illegally. Even if the published tax code is progressive, if people evade well enough, the results may not be. In fact, prior to the 1986 Act, the actual tax returns filed with the Internal Revenue Service illustrated a relatively proportional tax. People used loopholes to thwart and transform the progressive system. The 1986 Act, supported by Democrats and Republicans, eliminated many loopholes and made evasion less attractive. Some quirky loopholes somehow found their way into this tougher bill, however, including one that induced Eskimos to sell their business losses to corporations, which could then deduct the Eskimos’ losses on their tax forms.

Critics who reject these arguments against progressivity insist that proportional taxes are simply not as fair as progressive taxes. Despite this attack, it appears the ghost of Mill has won, for at least the next few years.

If Mill let the rich off easy on income tax, he tightened the screws on inheritance taxes. In his philosophical and economic works, Mill urged “equal opportunity” rather than “equality of results.” If some children inherit huge sums from their parents, they possess an unfair advantage over others. And those with silver spoons may coast along on their parents’ wealth rather than create more. Why is Mill cautious on income taxes, but confiscatory on inheritance taxes? His penetrating insight here is that high inheritance taxes do not discourage work, as progressive income taxes do. “It is not the fortunes which are earned, but those which are unearned, that it is for the public good to place under limitation,” he wrote.22

His analysis is not irrefutable, though. In practice, even inheritance taxes grow messy, for parents can simply transfer wealth before they die. Thus, gift taxes become necessary, along with gift inspectors. Moreover, high inheritance taxes could discourage older people from working or encourage them to spend their wealth on extravagances rather than save or invest in productive ventures. In sum, even inheritance taxes are not foolproof.
President George W. Bush disagrees with Mill on inheritance taxes. In 2001, Bush convinced Congress to chop the estate tax down to zero in 2010. However, the legislation then expires on December 31. Thus, on January 1, 2011, the top tax rate bounces back to its old 55 percent level. Some have called this the “Throw Momma from the Train Act.”

Mill’s scrutiny of the rich did not end with inheritance taxes. Despite his love affair and Benthamite breeding, Mill was Victorian enough to oppose sheer sybaritism by the rich. He eagerly proposed taxing riotous parties and luxuries flaunted for status. Long before Thorstein Veblen, Mill declared that an item “on which money is spent . . . from regard to opinion” is “a most desirable subject of taxation.” Sometimes Mill sounded as if he would receive as much pleasure from taxing the rich as the rich received from being rich. Given some of the affluent people Mill knew and the poor people he cared for, we cannot blame him. Mill always appreciated how social circumstances helped to mold opinions.

Mill also wondered how society could give relief to the poor without dissuading them from getting jobs. No clear answer appeared. Mill distinguished the able-bodied from the disabled, elderly, and very young. Certainly, Mill reasoned, society should not worry about dissuading the disabled and should not cut their relief. Mill accepted the findings of the Royal Commission on Poor Law Reform and opposed the elimination of aid to the handicapped. Yet he felt less lenient toward the physically fit. He proposed that recipients exchange labor for welfare payments. After ignoring Mill’s call for decades, in 1988 the federal government and several states adopted “workfare” programs in which healthy welfare recipients must accept employment or job training. The father of the federal legislation, Senator Daniel Patrick Moynihan, had labored for many years to redefine welfare as a transition to eventual employment. While the 1988 program had plenty of loopholes, it spurred a heated national debate on the subject. Americans had grown used to conservatives excoriating the welfare state, as President Reagan did by campaigning against welfare “queens” who drove Cadillacs to the bank to cash their government checks. A controversial 1985 book, Losing Ground, earned applause and denunciations for arguing that welfare payments actually tore apart black families. The “conservative” workfare argument got its biggest boost, though, in 1992 when Governor Bill Clinton of Arkansas announced that he would reform welfare “as we know it,” if he were elected president. Suddenly, liberal politicians could jump on the anti-welfare bandwagon without embarrassment. After a few years of bickering with Congress, in 1996 President Clinton signed the Personal Responsibility and Work Opportunity Reconciliation Act, which put a time limit on public assistance and paid bonuses to states that successfully moved welfare recipients into jobs. While Republicans lauded the law they helped write, some White House advisers quit in protest, believing the bill too tough on recipients. Combined with a stunningly healthy job market that brought the jobless rate down to thirty-year lows (hitting 3.9 percent in April 2000), the new workfare system surpassed expectations, cutting the welfare rolls by several million. Of course, such a strong job market would have induced
some people to get off the dole anyway; but there is little doubt that the new law gave them an extra push.

The State of Wisconsin’s heralded model had preceded the federal law by several years. The State counsels former claimants through a transition period, giving them “trial jobs,” childcare and medical services, if necessary. New York City has emulated the Wisconsin model, enjoying a 34 percent drop in the welfare rolls since 1993. From 1960 until 1993, New York welfare rolls had surged from 250,000 to 1.2 million. New Jersey’s new welfare program does not give any additional money to a welfare mother even if she gives birth to another child. Researchers at Rutgers and Princeton universities found that this strict rule persuaded more poor women to use birth control, thereby curbing their birthrate. Reforming welfare is as much a cultural revolution as an economic one. The Massachusetts Department of Public Welfare has changed its door plate to the Department of Transitional Assistance. Florida calls its program the Work and Gain Economic Self-Sufficiency Program. To critics, this smacks of George Orwell. To supporters, it puts the jobless in a proper frame of mind to fight back for their self-respect.

Mill’s plan was more severe, however, for he thought that the jobs should necessarily be as arduous as those held by the least fortunate independent workers. Modern versions correctly find no reason to prevent recipients from training for more worthwhile jobs. Nonetheless, Mill shows remarkable prescience again.

Mill feared that if welfare was too easily doled out, generations of poor people would be born into families weaned of a work ethic. Even more pernicious, he thought that higher welfare payments would only promote higher birthrates. Thus, Mill rejected socialist and romantic proposals for raising relief benefits or wages. Such normative efforts ignored positive information about human tendencies. Mill needed to ground his normative policies in mature, reasoned models.

Falling back on his early memories, Mill recalled the power of education. He backed public education for paupers. But education would not consist simply of the three R’s. Mill saw nothing wrong in inculcating a taste for capitalist values. Capitalist societies have a duty to teach all of their citizens how to succeed in a commercial community. What Max Weber later called the “Protestant work ethic” is not a biological trait. To assume that it is deprives poor people of their only hope for rising out of poor-houses: “It appears to me impossible but that the increase of intelligence, of education, and of love of independence among the working classes, must be attended with the corresponding growth of the good sense which manifests itself in provident habits of conduct.”24 Mill wanted to combine moral education with economic incentives, proposing, for instance, that the government provide to the poor what we now call home improvement loans.

Volumes could be written on Mill’s attitude toward laissez-faire policies versus government intervention. In brief, he stayed in the middle of the road and usually did not get run over. Rejecting a doctrinaire laissez-faire position, he embraced only a presumption
of laissez-faire. That is, the burden is on the proponent of government to show that the greater happiness requires intervention: “every departure from [laissez-faire], unless required by some great good, is a certain evil.”25 Obviously the state should tax, coin money, defend against enemies, establish courts, and so forth. But “optional” functions such as consumer protection, education, and business regulation should be approached on a case-by-case method. For example, Mill preferred private charity to state welfare, but he knew that charity might only be partly successful. The poor would happily accept any money, but the rich wouldn’t give (partly because of “free-rider” effects—people assume that others will bear the burden). Thus, the state should use its taxing power to maintain the poor.

Mill’s approach again appears very modern. He would have approved, and indeed anticipated, many of today’s governmental institutions. Nonetheless, he made sure that all proposals passed the crucial presumption test, for “impatient reformers, thinking it easier and shorter to get possession of the government than of the intellects and dispositions of the public, are under a constant temptation to stretch the province of the government beyond due bounds.”26 His reading of Alexis de Tocqueville’s classic Democracy in America taught him the virtue of local rather than centralized plans.

In many ways Mill’s positions reflected his government’s at the time. England moved toward free market economics in many significant ways, but set up safeguards against exploitation. William Gladstone led Parliament to finally abandon the Corn Laws in 1846 and to reduce income taxes. Even as the alarum of free trade finally shook Europe, Parliament restricted in 1802, 1819, and 1833 the hiring of children through the Factory Acts, providing landmark shields. Mill would approve of both, not out of a knee-jerk ideology, but from careful reasoning.

Looking Forward

Most economists cannot resist predicting the long-term future. Like Smith, Malthus, Ricardo, Marx, and Keynes, Mill painted an impressionistic vision of the future, blending tones from Ricardo and Saint-Simonian socialism, a utopian movement that glorified industrial workers. From Ricardo, Mill sketched the possibility of a stationary state. From Saint-Simon, Mill brushed on cheerful colors. The stationary state would be happy. Whereas Ricardo constructed a theoretical model to track the results of diminishing returns, closed markets, and falling profits, Mill portrayed a nearly theological model of heaven on earth. In some distant time the scramble for money would stop, and the human race would exalt itself instead of wealth. Keynes would present a similar vision during the Great Depression.

Recall that Mill’s enlightened utilitarianism had a place for Platonic ideals in its calculus. Mill yearned for a time when human beings would care more about dignity, integrity, and justice than overtime and overdrafts:
I cannot . . . regard the stationary state of capital and wealth with the unaffected aversion so generally manifested towards it by political economists of the old school. I am inclined to believe that it would be, on the whole, a very considerable improvement on our present condition. I confess that I am not charmed with the ideal of life held out by those who think that the normal state of human beings is that of struggling to get on; that the trampling, crushing, elbowing, and treading on each other’s heels, which form the existing type of social life, are the most desirable lot of human kind, or anything but the disagreeable symptoms of one of the phases of industrial progress.27

Like Marx, Mill thought that humans would eventually surpass the “realm of necessity” and arrive at a time when they could choose not to struggle for subsistence, but to strive to enhance their humanity. Only the “backward countries of the world” truly need more economic growth, Mill thought. The advanced countries only need a better distribution or at least a better ethos. He decried the United States, where he thought poverty was eliminated but “the life of one sex is devoted to dollar hunting, and of the other to breeding dollar hunters.”28 One wonders whether Mill would prefer our new world, in which all are equally free to hunt.

What are we to make of Mill’s portrait? It is too impressionistic to deduce or even induce any firm conclusions. As new editions of Principles arrived, they sounded somewhat more sympathetic to socialism. Yet Mill never sounded empathetic. He could feel for the utopians, but never sign the petitions or march beside them. As Lord Byron said, “I stood among them, but not of them.” Mill never abandoned his faith in competition and Tocquevillian fear of centralized power: “I utterly dissent from the most conspicuous and vehement part of [socialist] teaching, their declamations against competition. . . . They forget that wherever competition is not, monopoly is.”29

Few of us ever give up our longings for paradise. The rich can look for it on some tropical isle. Religious men and women can rely on a hereafter. Optimists can rely on tomorrow. John Stuart Mill fought for today and hoped for some idyllic day after tomorrow.

Mill fought for his principles in his Principles and in Parliament during the 1860s. A consistent voice for human rights, Mill championed women’s suffrage, voting rights for the poor, and the North in the American Civil War. According to Lord Balfour, “Mill possessed an authority in the English Universities . . . comparable to that wielded . . . in the Middle Ages by Aristotle.”30

His Autobiography depicts a far from conventional politician. When first asked to run for office, he “was convinced” that hardly anyone “really wished to be represented by a person of my opinions.” He openly refused to campaign or spend money. He did make one promise: if elected, he would not devote any time to local interests. One famous writer declared at the time that “the Almighty himself would have no chance of being elected on such a program.” Toward the end of the “campaign,” Mill attended a public meeting of workers. An opponent flashed a placard that quoted Mill bluntly describing the English working class as
“liars.” However, they are better than the foreign working classes, the quotation continued, because they feel guilty. Almost any other politician would have been tarred and feathered at this point. Mill recalls, “I was asked whether I had written and published it. I at once answered ‘I did.’” His supporters panicked, fearing for their lives. “Scarcely were these two words out of my mouth, when vehement applause resounded through the whole meeting.” The workers had finally found someone they could trust.31

Mill died in 1873. Though he fought in no wars and seldom raised his voice or threw down a gauntlet, he lived a life of struggle. He battled bigots, elitists, rationalists, and socialists. He challenged the ethos etched in his brain at a tender age. Edmund Burke once lamented that “the age of chivalry is gone. That of sophists, economists, and calculators has succeeded, and the glory of Europe is extinguished forever.”32 Chivalry still inspired Mill. And his most gallant duels and conquests were over the windmills of his mind.
CHAPTER VI

The Angry Oracle Called Karl Marx

When he was a child, Adam Smith was once kidnapped by some shrewd gypsies. After a few hours of holding the boy captive, the gypsies left him on a roadside, and he was returned to his family. A biographer remarked that the naive, absentminded economist would not have made a good gypsy. One might also say that it’s a good thing Karl Marx was never kidnapped by capitalists. He would not have made a good capitalist. Nor was he a good consumer. Marx was always in debt.

In powerful words and an incendiary manner, Marx foretold the collapse of capitalism. But not before he performed a penetrating inquiry into the laws of capitalism and the hidden code that rules the development of civilization.

Marx’s place in the history of economic thought is difficult to locate. In many ways, mainstream economists today banish Marx to bourgeois cocktail conversation. Yet a billion people have struggled to survive under regimes that have claimed to be Marxist. Along with Freud and Darwin, Marx had a tremendous impact on the twentieth-century mind. But during his own lifetime, Marx found little fame and little following. John Stuart Mill, the most erudite man of Marx’s era, never heard of him.

Marx the man enjoyed a bourgeois beginning in the German town of Trier in the Rhineland. Born in 1818, he mixed with the upper and middle classes of Trier. Marx later expressed pride that his father, Heinrich, a distinguished lawyer, also owned a vineyard. Marx’s childhood friend and future wife, Jenny, lived nearby. Her father, the Baron von Westphalen, became like an uncle to young Marx.

After his older brother died at the age of four, Marx inherited the role of eldest son and began terrorizing his younger and less brilliant sisters. A favorite game included “driving” his sisters like horses through the streets of Trier at full speed. In addition to equestrian events, Marx also forced his sisters to enter cake-tasting tournaments, in which they would eat cakes he would bake with dirty dough and unwashed hands. Nonetheless, the Marx sisters admired Karl for his intelligence and entertaining stories. Marx’s schoolmates also loved and feared the boy, who brought smiles with pranks and shudders with sarcastic verse.

All his life Marx had a facility and proclivity for biting criticism and ad hominem abuse. He saved some of his most vicious attacks for Jews. Both of Marx’s parents were descended from eminent lines of rabbis; his uncle served as chief rabbi of Trier. Yet anti-Semitic laws persuaded Marx’s father to convert to Christianity, even if he spoke of Jews as his “fellow believers.” His son, however, rejected his Jewish ancestors with almost perverse pleasure. Scholars may debate whether he was really anti-Semitic. But undoubtedly Karl Marx uttered numerous venomous insults.1
Like John Stuart Mill, Marx imbibed both rationalist and romantic potions. His father provided eighteenth-century French rationalism mellowed by British empiricism, advising his son to “submit” to “the faith of Newton, Locke, and Leibnitz.” Meanwhile, the highly cultured Baron von Westphalen enchanted young Marx by strolling through idyllic woods and telling stories of Shakespeare, Homer, and the romantics. Ironically, it was the aristocratic baron who first introduced Marx to classless, utopian socialism. Without the influence of his father’s sharp, discerning mind, Marx might have believed the fuzzy, wistful notions of the utopians. But where they would see bliss, he would see struggle.

At the University of Bonn, the biggest struggle Marx faced was against his eagerness to drink and to spend his father’s money. He lost the struggle, and Heinrich lost a lot of money. Marx studied law and gained some practical legal experience when he was imprisoned for drunkenness. Since the university had its own drunk tank, imprisonment wasn’t severe—visitors could play cards and continue drinking with the condemned man. The escapade proved useful. Marx’s first political victory left him president of the Trier Tavern Society.

After a year of Bonn parties, Heinrich transferred his son to the University of Berlin, a more sober place, he hoped. Heinrich lost hope rather quickly: “As though we were made of gold my gentleman-son disposes of almost 700 thalers in a single year, in contravention of every agreement and every usage, whereas the richest spend no more than 500.” Creditors sued Karl several times, forcing him to move at least ten times during his five years at Berlin.

Heinrich complained of more than profligacy: Karl was a slob, a patron saint of unwashed, unkempt college students. His swarthy complexion earned him the nickname “The Moor,” later used affectionately by his children and friends. With dark skin and long, matted hair, he appeared a shaggy excuse for a student.

Heinrich also objected to Kark’s academic meanderings through philosophy and law. If Karl wandered, he certainly did it outside of the classroom. During his last few years he took only a few courses and became a “bohemian student, who merely regard[ed] the university as his camping ground.” Nonetheless, Marx learned philosophy on his own and joined the Young Hegelians, radical critics of religion and eclectic followers of G.W.F. Hegel, the Berlin philosopher who died only a few years before Marx’s university career began. Marx would ingeniously adopt the Hegelian method and prove to the world that skipping classes sometimes pays (though not financially).

Unfortunately, Marx would never prove this to his father, who died in 1838. Marx retained strong affections for his father, always carrying with him a photograph. Incidentally, Marx never showed such affection for his mother, seeing her merely as a stingy source of funds. He neither attended her funeral nor shed a tear when she died.

After his father’s death, Marx thought it prudent to finish his studies. Suddenly eager to leave academia, he refused to submit his thesis on Greek philosophy to the rigorous Berlin procedures. Instead he sent it to the University of Jena, a noted diploma mill. A six-week
correspondence course would have taken longer. In just a few days Jena took out its well-worn rubber stamp and awarded a doctorate.

**Young Man as a Journalist**

With diploma in hand, Marx meandered into journalism, writing and then editing the Rheinische Zeitung, a liberal middle-class newspaper. Ironically, he bridled in its more radical writers, who tended toward communism. The repressive Prussian government eagerly censored criticism, and Marx often dealt with nearly moronic officials. One censor forbade an advertisement for a translation of Dante’s Divine Comedy. Why? In Prussia, thou shalt not mock divine subjects through comedy.

An observer of Marx’s tenure at the newspaper left a striking portrait of the young editor: Karl Marx from Trier was a powerful man of 24 whose thick black hair sprung from his cheeks, arms, nose and ears. He was domineering, impetuous, passionate, full of boundless self-confidence, but at the same time deeply earnest and learned, a restless dialectician who with his restless Jewish penetration pushed every proposition of Young Hegelian doctrine to its final conclusion and was already, then, by his concentrated study of economics, preparing his conversion to communism. Under Marx’s leadership the young newspaper soon began to speak very recklessly.³

The government responded to Marx’s brashness by presenting a choice: either the newspaper shuts its doors, or Marx walks out of them. Marx resigned.

He had lost a job, but in the meantime he had gained a wife, Jenny von Westphalen. Her relatives thought that the nobleman’s daughter had married beneath her, but they had no idea how far down she would descend.

In 1843 the Marxs moved to Paris, where Marx edited a new political review, began to flirt with communism, and mingled with other young, arrogant radicals whom Heinrich Heine described as a “crowd of godless, self-appointed gods.”² The journal published only one issue, after which Marx and his new communist friends broke with the co-editor Arnold Ruge. Ruge also learned to despise the godless crowd: “They wish to liberate people . . . but for the moment they attach the utmost importance to property and in particular to money. . . . To free the proletariat intellectually and physically from the weight of its misery, they dream of an organization that would generalise this misery and make all men bear its weight.”²

Also part of the crowd, Friedrich Engels would become a critical part of Marx’s life and livelihood. The son of a wealthy factory owner, Engels led a double life. By day he worked in his father’s business and earned a substantial salary as a capitalist. By night he read Hegel and communist literature. Although a German, Engels lived in England for several years, running the family textile business. After some time in Manchester, he wrote a scathing
expose of British poverty, The Conditions of the Working Class in England in 1844. Not that Engels volunteered his capitalist earnings to the poor or renounced his bourgeois habits. In fact, he seems not to have been psychologically torn by his double life. He felt rather comfortable fox hunting, sipping sherry, and fencing. He could raise a glass of the finest champagne and elegantly toast the proletariat. When he wasn’t chasing foxes, he chased women, declaring: “If I had an income of 5,000 fr. I would do nothing but work and amuse myself with women until I went to pieces. If there were no Frenchwomen, life wouldn’t be worth living.” 8 Quite a leap from Socrates’ “the unexamined life is not worth living.”

In the 1840s Marx began to mold the doctrines that would change the world. Not everyone approved, of course. The Prussian government registered its opinion of Marx’s writings by declaring him guilty of treason. When France deported him a year later, he fled to Brussels.

What were these perfidious writings that forced Marx and his family to move from one European country to another? In the 1840s Marx built the historical and philosophical foundations for a study of capitalism. What did these theories prove? That the foundations of capitalism were quickly crumbling, and that the masses would soon erupt in revolution and shake the owners until they tumbled from their pedestals.

**Materialist Historian**

Marx’s philosophy and history used Hegel’s terms, but he was no parrot. Marx may have used the same words, but he changed the order. In order to understand how he did so, let us first examine a major precept of his mentor.

Hegel taught that philosophy aims at knowledge of the unfolding of ideas. The human spirit and ideas guide history. The material world, the stuff we see and touch, and the institutions in society follow the path of ideas. The German sociologist Max Weber would also employ this thesis in his famous work, The Protestant Work Ethic and the Spirit of Capitalism. Quite simply, Weber alleged that the rise of Protestantism led to capitalism; that is, a belief about God transformed economic institutions.

According to Hegel, we can trace the path of history by dominant nationalisms: the Age of Egypt, Greece, Rome, and so on. A patriot, Hegel thought Prussia was the leader of its age.

Marx rejected Hegel’s idealism. Following the German philosopher Ludwig Feuerbach, Marx looked to materialist forces in history. God, according to Feuerbach’s The Essence of Christianity, is simply a projection of human desires, needs, and attributes. Man created God; God did not create man. The real stuff, man, led to the idea of God. (Feuerbach’s writings led Marx to later denounce religion as the “opium of the people.” 9 As long as people could project their longings onto God and a hereafter, they would passively accept material conditions and injustices in the real world.)
So far Marx sounds more like a dropout from the Hegelian school of thought than a Young Hegelian. But Marx retains the key to the Hegelian method, the dialectic. Hegel insisted that history, like reality, does not follow a smooth, gradual pattern. Nor does it consist of a series of independent accidents. History consists of struggle between opposing forces. Every idea includes its opposite. Philosophers often summarize Hegel’s dialectic by stating that every thesis or idea is confronted by its antithesis. The battle between these ideas produces a synthesis, a new thesis. The new thesis then faces its antithesis. The world is ever changing. History never repeats itself—although windy historians may repeat themselves.

Compare the dialectic method to the Newtonian approach to economics, which sees unchanging cause-and-effect relations. The only thing immutable in Hegel’s vision is the presence of change.

Marx fuses the dialectic method with materialism. Engels later termed the alliance dialectical materialism or historical materialism. If Hegel’s head was in the clouds, Marx wants to rub our noses in the ground. History takes place on earth, he said. Forget about studying religion, ethics, or nationalism. Simply look out the window and see how man grapples for the bare necessities of life. There is no history without men. And there are no men without food. Thus, “the first historical act is . . . the production of the means to satisfy these needs.”10 Idealist historians might as well write the history of Oz.

Marx plots the course of history from slavery to feudalism to capitalism to socialism. The path lies not in the stars or the laws but in production—and more specifically, in the relationship of people to production. Each system of production creates ruling and ruled classes. Each epoch is marked by a particular way of extracting income for the rulers. In Roman times, whoever owned a slave owned a claim on his output. In feudal times, lords owned a claim on the output of serfs. Under capitalism, owners of factories and land owned a claim on the output of their wage-laborers. The survival of the master class rests on the work of the serving class. Does this give the workers great bargaining power? No. The workers must cooperate with the ruling class, for the rulers control the means of production. The workers cannot just “take their marbles and go home.” They don’t own the marbles.

Thus, a mutual dependency exists. Nonetheless, the rulers strive to appear as if they do not need the workers as much as the workers need them. If successful, they extend their dominance.

How do they try to ensure their status? Here’s where Hegel’s concern for ethics, nationalism, and ideas enters. The ruling class develops the beliefs, laws, culture, religion, morality, and patriotism that support the production process. A patriotic worker whistles while he works and doesn’t cheat the owner by taking too many coffee breaks. Today, car manufacturers and breweries love to link America with a “good, honest day’s work.” The American dream burst forth in a jingle as “baseball and hot dogs, apple pie and Chevrolet.”
Chevrolet actually displaced Mom. (Would the American oedipal dream include lust for Dad’s car?)

Our ethical and legal system teaches us to feel guilty if we shirk our work. Why are owners entitled to profits derived through our sweat? Because they own the property, we respond. But why should we accept the legal system? Marx asks.

According to Marx, rulers who have a stake in the private property system hypnotize the masses. The power of suggestion and persuasion leads Americans to dream of stocks, bonds, and BMW’s. Of course, the individual thinks the dreams are his own and internalizes the suggestions. Marx calls the supportive ideas, laws, and ethos the superstructure.

Marx’s classic statement appears in the preface to his Contribution to the Critique of Political Economy: “The mode of production of material life conditions the social, political and intellectual life. . . . It is not the consciousness of men that determines their being, but, on the contrary, their social being that determines their consciousness.”

The serf bows and shows fealty to the lord. The journeyman serves the master craftsman with pride. The wage-laborer strives for promotion by working harder. They all toil and seek a better life within the reigning system.

Marx did not argue that the ruling class knowingly conspires to construct the superstructure. Owners may truly believe in their religion and not view it instrumentally. The superstructure emerges because the productive process skews and frames the perception of people. To Marx, “Men make their own history, but they do not make it just as they please; they do not make it under circumstances chosen by themselves, but under circumstances directly encountered, given and transmitted from the past. The tradition of all the dead generations weighs like a nightmare on the brain of the living.” (Incidentally, Engels later admitted that Marx and he sometimes overstressed the causation from production to superstructure. Ideas occasionally had real consequences.)

If an ethos and culture automatically arise to buttress the class system, why does Marx announce in the opening thrust of The Communist Manifesto that the “history of all hitherto existing societies is the history of class struggle”? Why should anyone struggle? How does anyone know to struggle in the first place? The owners simply squeeze the workers and the workers accept the squeeze as contentedly as a mesmerized Moonie giving away daisies at an airport. As long as the Moonie/worker gets token benefits, the economy rolls on, and the profits roll into the bank accounts of owners.

The rebellion takes place when technology of the productive process changes. A new technology or method alters the quantity or quality of land, labor, and capital. Through discovery, invention, education, and population growth, the material forces of production are dynamic. With a new mix of material forces, the old productive process becomes obsolete. For example, slavery might have produced profits when the ratio of land to worker
was high. But if tractors and reapers work more efficiently than slaves, or if the population of workers rises, slavery may be less profitable. The future lies in the new process.

Do not forget, though, that a whole political, ethical, and legal system rested on the old method. Ministers preached that serfdom led to God’s kingdom. This was an eternal truth etched in the mind and on the stones of the medieval cathedral. Thus, the superstructure appears static.

The struggle occurs when the old ruling class barricades itself from the dynamic course of history by clutching the old ideas and blocking new economic developments. Marx writes that the hand mill begets the feudal lord, while the steam mill announces the industrial capitalist. But the feudal lord battles his successor, the industrialist. Later the guild master brawls with the factory owner. Forget tales of Sir Lancelot and Gala-had. The real jousting with the sharpest lances took place not between knights but between lords and commercial forces.

The ruling class always faces a threat when land, labor, capital, or technology shifts. They may tumble down from the penthouse of the house of cards, while screaming the “eternal truths” of their philosophy. History reshuffles the deck, and he who held the king may be beheaded.

A story might help here. Once upon a time, swift sentries warned a devout feudal lord of a flood. The lord rushed to his cathedral and prayed to God for salvation. As the water reached the steps of the holy building, a serf in a small boat rowed to the steps and asked the lord to come aboard. “No, thanks. I believe in God, and I believe in justice. God will save me.” As the water rose, the lord walked up to the pulpit. This time a motorboat rushed toward him. As the water sloshed against the pew, the driver yelled, “I’ll save you. Jump on!” Again the noble lord replied, “Do not worry. I believe in God. He will save me. I don’t need noisy machines.” Finally, the water engulfed the cathedral. As the lord clutched the very top of the highest spire, his body thrashed by waves, a helicopter flew overhead. The pilot screamed, “Please, my lord. Take hold of this ladder.” Again the lord replied, “Do not worry. I believe in God. He will save me.” Moments later, the water rose higher and the lord drowned.

In Heaven (he was, after all, a good lord), he confronted God. “God,” he said, “I believed in You all my life. I followed every parable my priest ever told me. When others doubted and turned to machines, I believed You would save me. But you let me drown—”

“Schmuck!” God interrupted, “Who do you think sent the rowboat, the motorboat, and the helicopter!”

He who doesn’t go with the flow of historical materialism, drowns in it. Marx depicted the flow:
At a certain stage of their development, the material forces of production in society come in conflict with the existing relations . . . these relations turn into their fetters. Then comes the period of social revolution. With the change of the economic foundation the entire immense superstructure is more or less rapidly transformed. In considering such transformations the distinctions should always be made between the material transformation of the economic conditions of production which can be determined with the precision of natural science, and the legal, political, religious, aesthetic or philosophic—in short, ideological forms in which men become conscious of this conflict and fight it out.  

Because capitalism rested on a class system, revolution and victory for the workers was inevitable. Marx’s masterpiece Capital portrayed “tendencies working with iron necessity towards inevitable results.” 15 Only a classless society could avoid revolution. And in Marx’s vision, a classless society would eventually arrive. Rotten capitalists would finally be annihilated. After centuries of theft, workers would finally be free.

If capitalism must with “iron necessity” collapse into socialism, didn’t feudalism have to collapse into capitalism? Wasn’t capitalism a necessary stop on the way to communism? If so, it was not a gratuitous slaughter, or a stroke of very bad luck for mankind, as many utopian socialists saw it. Marx was repulsed by unscientific romantics who depicted capitalism as a wicked accident contrived by evil men. In fact, Marx composed some of the most eloquent paens to the capitalist, since his view was that capitalism liberated man from even worse conditions. Marx’s Communist Manifesto had no time for fuzzy-headed nostalgia mongers:

The bourgeoisie, by the rapid improvement of all instruments of production, by the immensely facilitated means of communication, draws all nations, even the most barbarian, into civilization. The cheap prices of its commodities are the heavy artillery with which it batters down all Chinese walls, with which it forces the barbarians’ intensely obstinate hatred of foreigners to capitulate. . . . The bourgeoisie, during its rule of scarce one hundred years, has created more massive and more colossal productive forces than have all preceding generations together. 16

Marx may have criticized the bourgeoisie, but he saved his most poisonous attacks for fellow socialists who veered from his vision. No coalition builder, at his friendliest he was a coiled python. Marx would have hated the Green party and dreamed of its members choking on their Grape Nuts. Capitalism, he wrote, “rescued a considerable part of the population from the idiocy of rural life.” 17 He would have sent “back to nature” advocates back to their history books to learn how terrible preindustrial life was. Marx acidly responded to Pierre Proudhon’s The Philosophy of Poverty with The Poverty of Philosophy. Intelligent people do not try to erase or “recall” stages of history and send them back to God’s little factory for repair.

Capitalism is a necessary precondition for socialism. Because capitalism produces so much, it permits a less driven system, socialism, to follow. Precapitalist nations have no
business hoping for communist revolutions to overthrow feudal lords or czars. Marx did not look to Russia. He did not expect communism to come soon even in Germany, since only 4 percent of the male labor force worked in factories at the time. The shackles would burst open first in England and France, strongholds of advanced capitalism. France would signal when Germany was ripe for communism: “When all internal conditions are fulfilled, the day of German resurrection will be heralded by the crowing of the Gallic cock.”

**Capital and the Collapse of Capitalism**

Marx did not just arrogantly wait for the cock to crow. Instead he arrogantly wrote his definitive dissection of capitalism, *Capital*. In the 1850s, Marx buried himself in piles of economics texts in the British Museum in London. His family starved while he analyzed the abstract suffering of the proletariat. The Marxs lived in a sleazy apartment in one of the poorest parts of London. A police spy investigating Marx provided an extraordinarily vivid portrait of the squalor his family endured:

> When one enters Marx’s room, the eyes get so dimmed by coal smoke and tobacco fumes that for the first moments one gropes as if in a cave. . . . Everything is dirty, everything full of dust, sitting down becomes a truly dangerous business. Here stands a chair with only three legs, there the children play and prepare food on another chair which happens to be still whole.

As for Marx himself, “he is a highly disorderly, cynical person, a poor host; he leads a real gypsy existence. Washing, grooming, and changing underwear are rarities with him; he gets drunk readily. Often he loafes all day long, but if he has work to do, he works day and night tirelessly.” Jenny, though raised on aristocratic fare, “feels quite at home in this misery.”

The Marxs lost three children to pneumonia, bronchitis, and tuberculosis in five wretched years in London. Most horrifying, undertakers would not extend credit. Jenny, driven to depression, once had to beg for the £2 for a child’s coffin. Although Marx was often nasty to outsiders, his children had brought out the humane side of his personality. He too was broken when they died:

Bacon says that really important people have so many relationships to nature and the world, so many objects of interest, that they easily get over any loss. I do not belong to these important people. The death of my child has deeply shattered my heart and brain, and I feel the loss as freshly as on the first day.

Marx, of course, blamed his plight on the bourgeoisie and promised to make them pay for his family’s calamities and for his own ailments, including carbuncles.

Marx seldom blamed himself. He should have. Marx had an infantile sense of home economics. Someone once described an infant as a canal with a loud voice at one end and no responsibility at the other. If one counts gifts from Jenny’s family and from Engels, and
payments for articles in the New York Daily Tribune, the Marxs “earned” an adequate sum of money for a lower-middle-class family. In their poorest years, they enjoyed roughly three times the income of an unskilled worker. A radical German poet, also banished from his home-land, reported that an income similar to Marx’s always bought him “the luscious beef-steak of exile.”

But instead of regularly feeding his family, Marx invested money in political journals and in piano, music, and dancing lessons for his children! Although the wife of a revolutionary, Jenny continued to print posh stationery calling herself “Baroness von Westphalen.”

To compound his problems, Marx impregnated the maid (she was a gift from the von Westphalens). Again Marx denied responsibility. He told Jenny that Engels was the father. The maid left for a while, then returned with a rather swarthy, hairy child who was subsequently given away to foster parents.

It comes as no surprise, given such a home life, that during 1850 and 1851 Marx spent more time at the British Museum than at home. He read almost everything available on economics. He spent months filling notebooks with lengthy passages from about eighty writers. Engels tried to hurry him along, but Marx kept to a painfully slow, pedantic pace. Marx also had a tough time finding a publisher willing to accommodate his proposed format for Capital. Engels admonished the stubborn communist: “Show a little commercial sense this time.”

By the time Marx finished his research, writing, and editing, and recovered from several illnesses, the calendar read 1867. Volume I finally came out. An additional three volumes would appear posthumously.

To describe Capital, one might as well choose a page from Roget’s Thesaurus and read random adjectives aloud. It includes 2,500 pages with citations to more than 1,500 works. Some pages are literary masterpieces. Some gleam with lucid logic. And some are so technical, picayune, and boring they recall Truman Capote’s swipe at writer Jack Kerouac: “This isn’t writing. It’s just typing.”

Let us take Capital in three steps. First, we will discover the key to capitalism, Marx’s idea of labor exploitation. Second, we will look at the laws of capitalist motion, which inevitably lead to its downfall. Third, we will look at the psychological costs of capitalism.

Marx does not take the easy route. He does not simply point to domineering businesses and proclaim that the era of entrepreneurs and perfect, Smithian competition is over. Remember, he is a Hegelian; he wants to show that even the ideal form of capitalism must fail on its own. He starts with classical tools.

Like Smith and especially Ricardo, Marx “proves” that the value of a product is determined by the amount of labor needed to produce it. Machines are just past labor
stored up in metallic form. A stereo that takes ten hours to make is twice as valuable as one that takes five hours.

If this is true, there can be no profits unless labor is exploited. The following simple syllogism would be sound:

1. The value of a product (price) is determined by the amount of labor.
2. Workers receive the full value of what they contribute to the product.
3. Therefore, the value of a product equals the amount workers receive.

But the selling price of a product is not just split among the workers. The owner seizes a share, his profits. Forget the invisible hand. The intrusive, visible hand of the capitalist grabs a piece of the action. Where does the profit come from? Premise 2 must be wrong. The workers must not receive the full value of their contribution. They must be exploited. (Critics of Marx, of course, argue that premise 1 is flawed.)

How do capitalists cheat the workers? Instead of paying them the amount by which they enhance the value of the capitalist’s business, the capitalist pays them only a subsistence, what it takes to keep them alive and working. The capitalist buys labor power as if it is any other commodity. Then he puts it to work X hours per day.

Let’s use Marx’s terms. Marx portrays capitalists providing factories and equipment, called constant capital. They also pay for labor, called variable capital. When production takes place, the capitalist must ensure that the value of the final product surpasses the sum of constant plus variable capital. The extra value (profit) comes from paying workers less than the value they produce. In other words, the value that workers add to the product exceeds the variable capital they get paid. Marx calls this loot robbed from the laborer surplus value.

For example, Jasmine works as a seamstress for the Radio City Music Hall stage show. Audiences generally don’t like torn costumes. So her sewing boosts the value of a performance by $10.00. But she only gets paid $6.00. The bosses squeeze a $4.00 surplus from Jasmine for each daily performance. The ratio of surplus value to wage (4/6) is the ratio of exploitation.

Why doesn’t Jasmine charge $10.00 and get her full value? Capitalism leads to unemployment and a reserve army ready to take Jasmine’s place if she demands more money. She does not own the sewing machine, the costumes, or the stage. The bosses do. By controlling the means of production, they dominate the labor market.

How do the bosses set Jasmine’s $6.00 wage? Bosses need only pay workers enough for them to survive. Jasmine gets $6.00 because $6.00 will keep her alive. She receives a subsistence wage. If she got $1.00 per hour, six hours of work would provide a subsistence. But the bosses do not let her stop at six. They force her to work a longer day, mending more
torn costumes. They spread her $6.00 wage over ten hours, for example. The result: She works six hours for herself and an extra four hours for the bosses. The four-hour surplus goes right into the boss’s pockets. They need not lift a thimble.

Why do workers get paid only a subsistence wage? We said earlier that the value of a commodity is determined by the amount of labor that went into it. Labor supply is also a commodity. Therefore, the price of labor is the amount of money needed to produce and maintain a human being: the subsistence level.

In general, bosses do not pay workers enough to buy what they produce. Workers struggle for just a portion. In our example, Jasmine cannot afford a $10.00 ticket to the performance, even though she adds $10.00 of value to it. Perhaps the bosses would let her buy a ticket for $5.00, if she promised only to watch the performers from their waists up.

If profit comes from exploiting labor, we can define the rate of profit as the ratio of surplus to the sum of variable plus constant capital ($s/[v + c]$). The capitalist can boost profits if he squeezes a longer work day out of his employees. Or he can raise profits by exploiting the labor of women and children in addition to men. During the era when Marx wrote, hours did increase and more women and children had entered the industrial work force.

Now we see how profits rest on exploitation. But why can’t this go on? What are the laws of capitalism that finally deliver workers from despair and drive the capitalists to their knees? Marx did not merely announce that a social revolution would burst forth. He carefully depicted the economic inconsistencies of capitalism. We will examine five “laws” or “tendencies” that point to an economic implosion. Far from applauding capitalism, the invisible hand ultimately smashes it.

1. Falling Profit Rates and Accumulation of Capital. Like Adam Smith, Marx sees the capitalist confronting competition. If one company expands its scale of production, it may produce more efficiently. The innovative company forces its competitors to expand. They hire more workers. But this drives up the wage beyond subsistence. What do the bosses do? They substitute equipment for labor. If they do not, their profits plunge, for higher pay halts their exploitation. Competition coerces them to substitute.

But here the bosses outsmart themselves and stumble into a dilemma. Surpluses can only be squeezed from human beings. Capitalist machine sellers can charge the full, fair value for the products. (If a high-speed film developing device increases a company’s income because it can develop more photographs per hour, the equipment manufacturer will probably charge the photography company appropriately.) Look again at Marx’s formula for the profit rate, $s/[v + c]$. By adding machines (c), the capitalists drive down their profits. On the other horn of the dilemma, if they resist adding machines, no one will buy their uncompetitive products:
The development of capitalist production makes it constantly necessary to keep increasing the amount of capital laid out in a given industrial undertaking, and competition makes the immanent laws of capitalist production to be felt by each individual capitalist, as external coercive laws. It compels him to keep constantly extending his capital, in order to preserve it.

Accumulate, accumulate! That is Moses and the prophets! . . . Therefore, save, save, i.e., reconvert the greatest possible portion of surplus-value, or surplus-product into capital!”

The same result occurs if one capitalist improves a machine. The owner who builds a better sewing machine can charge a lower price for admission. Since bosses must keep up with each other, competitors must save the surpluses extorted from labor and invest in the new sewing machinery.

The “boundless greed” of capitalists forces their destruction. To delay the loss in profits, bosses may try to exploit labor even more. How? They will speed the pace of work. And they will stretch the working day even further. Of course, these tactics only stretch the patience of laborers dangerously further.

2. Increasing Concentration of Economic Power. With capitalists driven to expand and develop, a battle rages. The largest firms, which produce more cheaply, triumph. The bloody battle “always ends in the ruin of many small capitalists, whose capitals partly pass into the hands of their conquerors, partly vanish.” Survivors soon dwarf the vanquished.


The cycle, of course, turns up again, after prices drop. The survivors again pick up the pieces of broken businesses and hire desperate workers. Surpluses and profits reappear. But only to fall faster and farther the next time.

4. Industrial Reserve Army. Through substitution and depression, the capitalists throw more and more people out of the factories and into the streets. The “army” is no more militant than the Salvation Army—at first. As long as the army remains peaceful, it remains a good source of low-cost labor. An abundance of workers helps the capitalists stay in control—at first.

5. Increasing Misery of the Proletariat. Along “with the constantly diminishing number of magnates of capital, who usurp and monopolize all advantages . . . grows the mass of misery, oppression, slavery, degradation, exploitation.” Longer work-days and less vacation bring more misery for the downtrodden laborers. Marx’s earlier writings argued that their absolute standard of living falls. But in Capital, written in the face of indisputable
evidence that workers were better off than they had been, he retreats, claiming only that workers have a smaller share of the wealth than before.

Finally, after unemployment, crashing profits, inhuman despair, and misery, the proletariat will see their plight. The mask of the superstructure is ripped off. The ugly monster called capitalism is revealed. The oppressed lot rebel: “The knell of capitalist private property sounds. The expropriators are expropriated.”

The proletariat gain more than factories. They regain their humanity. The capitalists robbed more than proletariat pockets. They also robbed hearts and minds. To Marx, work plays a special role in human life. Human beings are impelled to create and enhance their lives through nature and through relationships with other people. The human personality cannot develop without creative work. Under capitalism, labor becomes just another commodity. People are forced to accept routine, dull jobs. They become animated tools. They feel alienated from themselves, the world, and each other. Alienation becomes a prominent theme in Marxist and in existentialist critiques of modern society.

In the Communist Manifesto, Marx and Engels urged the proletariat to capture the economy and liberate themselves:

The Communists disdain to conceal their views and aims. They openly declare that their ends can be attained only by the forcible overthrow of all existing social conditions. Let the ruling classes tremble at a Communist revolution. The proletarians have nothing to lose but their chains. They have a world to win.

Workingmen of all countries, unite!22

With the publication of Capital, nearly twenty years later, the proletariats could back up pithy slogans with trenchant analysis.

But what happens after the revolution? Does everyone simply kiss and luxuriate in newfound humanity? Does everyone sit in a circle before a camp fire, hold hands, and sing “Cum-Ba-Ya”? Some contemporary Marxists might lead one to think so.

Surely, Marx scorned a utopian socialism and sneered at rustic simplicity. He was not sentimental. He disdained wistful longings for a “fair” distribution of income or a massive redistribution of wealth. Workers, even under socialism, would not get the “full value” of their work. The surplus would, however, go to the “people” for collective services.

What would communism really mean? We do not know. Marx deliberately avoided leaving “recipes” for the “cook-shops of the future.”28 Without a recipe, Marxism as a governing system became the political equivalent of sausage: a cheap way to squeeze a committee’s goals into a shape that can be fed to others.
Marx suggested that ultimately, the state would “wither away.” In the meantime a dictatorship of the proletariat would rule. The Communist Manifesto includes a ten-point plan, which would carve “despotic inroads into the rights of property”:

1. Abolition of property in land and application of all rents of land to public purposes.
2. A heavy progressive or graduated income tax.
3. Abolition of all right of inheritance.
4. Confiscation of the property of all emigrants and rebels.
5. Centralization of credit in the hands of the state by means of a national bank with state capital and an exclusive monopoly.
6. Centralization of the means of communication and transport in the hands of the state.
7. Extension of factories and instruments of production owned by the state; the bringing into cultivation of waste lands, and the improvement of the soil generally in accordance with a common plan.
8. Equal obligation of all to work. Establishment of industrial armies, especially for agriculture.
9. Combination of agriculture with manufacturing industries; gradual abolition of the distinction between town and country, by a more equable distribution of the population over the country.
10. Free education for all children in public schools. Abolition of child factory labor in its present form. Combination of education with industrial production, etc.

Future Marxists would have to figure out how to implement the plan. Not entirely optimistic about the splintered socialist movements in Europe, Marx once declared that he was no longer a Marxist.

In the Bible, God prevents Moses from entering the Promised Land. But the Marxists, unlike the Israelites, had no Joshua to take them forward when Marx died, in 1883.

**Looking at Marx**

How can we comprehensively critique Marx’s ingenious analysis? The task is intimidating. Over the past century, intellectuals have filled millions of pages with praise, insults, and blab. Here is a modest agenda for assessing Marx: (1) How Marx’s materialist history deforms the idea of surplus labor. (2) What about the prophecies of misery, unemployment,
and the fall of capitalism? (3) What did he give to modern economics? (4) What did he give to modern politics?

1. How Marx’s materialist history deforms the idea of surplus labor. In Victor Hugo’s Les Misérables, Jean Valjean continually confronts the same nemesis: Inspector Javert. And life keeps dragging Javert inexorably back to Valjean. The literary dialectic creates the dramatic struggle for each. Without the other character, life is too simple for each.

The trouble with Marx’s history is that the master dialectician ignores the most dramatic dialectic: between idealist causes and materialist causes. For the most part, Marx portrays material factors as causal. They establish and periodically change the ideas or superstructure of a society. But in assuming this relationship, Marx too often slights idealist forces. And this flaw infects his economics.

The notion of surplus labor supports the whole Marxian theory of capitalism. Recall the simple syllogism. Why must labor be exploited? Because Marx embraces the “labor theory of value” by which capitalists collect profits. According to Marx, “not one single atom” of value comes from the capitalist. Marx easily envisages Jasmine the seamstress or the blacksmith pounding at the anvil. They create value.

What does Marx miss? He ignores imagination and entrepreneurship. To create wealth requires more than tangible inputs. The development of the VCR did not require new types of raw materials or more drastic ways of exploiting labor. The video industry required two things: invention and entrepreneurship, the willingness to take risks with investments. Why did Russians living under communism beg for American-made denim jeans? Not because the Soviet Union lacked the cotton or the workers to produce high-quality clothing. But because they lacked the imagination, motivation, and discipline. These intangibles separate successful companies and countries from the others.

Marx’s materialism unfortunately leads him to scorn every kind of capital, including human capital, the knowledge, knack, or management skill so crucial to profits. How can the labor theory of value account for flashes of brilliance or insight like the following example?

Some years ago, as a man walked through the woods, a burr caught in his wool sock. The man’s bank account now overflows with money. He invented Velcro. Are all his profits stolen from the workers?

In the next chapter we’ll see that Alfred Marshall attacks Marx for ignoring the value to society of risk-taking and “waiting.” By investing, the capitalist gives up the immediate gratification of buying goods. His return on investment pays him for waiting, for delaying his pleasure. If everyone consumes everything now, society will produce nothing new. Thus, profits play a crucial and perfectly legitimate role. (Incidentally, the marginalist “revolution,” which Marshall helped lead, demonstrates that value comes from demand, as well as from production or supply. By the time Volume II of Capital appeared posthumously, the marginalists had savaged the supply-side focus of Marx and the classicals.)
By assuming the labor theory of value, Marx snubs too many dynamic, idealist factors. Ricardo avoided this problem, because he saw the labor theory of value merely as a tool for approximation, not as the definitive cause of value. When Marx tried to prove the theory mathematically, he fell into so many burrs, it’s surprising he didn’t discover Velcro in the nineteenth century.

2. What about the prophecies of misery, unemployment, and the fall of capitalism? Marx did not intend to prophesy. He aimed at scientific prediction, projecting the course of history based on identifiable tendencies. But as history swerved from his predictions, his posthumous followers created a pseudo-religion from his works. Thus his “laws” conformed to history. Having molded the laws, his disciples could proclaim the correctness of the prophecies. Although it started as atheistic science, Marxism in the twentieth century came to resemble a stained glass window that selectively admitted the sun and seldom admitted error. Once the laws became religious scripture, the effort to test Marxism scientifically was lost.

Marx lived long enough to see some of his supporters extrude and exalt his laws, erect pulpits and perform sacraments. The anarchist Proudhon warned Marx against bestowing a catechism:

For God’s sake, after we have abolished all the dogmatisms a priori, let us not of all things attempt in our turn to instill another kind of dogma into the people. . . . Let us have decent and sincere polemics . . . But simply because we are at the head of the movement, let us not make ourselves the leader of a new intolerance, let us not pose as the apostle of a new religion—even though this religion be the religion of logic, the religion of reason. 31

Even if we cannot disprove Marx’s predictions, we can observe a few developments in capitalist economies since his time. First, the standard of living for workers has risen dramatically in the past hundred years as home ownership and automobile ownership rates have soared. By today’s definition of poverty, the rising bourgeoisie of Marx’s time were impoverished and “immiserated,” to use Marx’s term. And using the conventional definitions of Marx’s time, today’s workers are ostentatiously wealthy. No one denies a rise in the “absolute” standard of living of workers.

Yet the Communist Manifesto forewarned workers that “the modern labourer . . . instead of rising with the progress of industry, sinks deeper and deeper below the conditions of existence of his own class. He becomes a pauper.” But Marx soon noticed that the pocketbooks of workers grew fatter. He even admitted that in the ten years following the Communist Manifesto, agricultural wages soared 40 percent. 32

For this reason Marx switched definitions and warned that workers would become poorer relative to capitalists. The apocalyptic plight of the laborer fades: The rich get richer, and the poor get richer. But the rich get richer more quickly. 33
Marx squeezed the new definition into Capital by declaring “subsistence” a relative term, dependent on contemporary life-styles. Presumably in the twentieth century bare subsistence requires a color television, since the average “wage-slave” in manufacturing can afford one. By retreating to the relativist argument, Marx surrenders passion and the feeling of desperation in the workers’ plight. As long as the poor keep getting richer, the scenario even passes philosopher John Rawls’ test of social justice (which allows the rich to gain only if the poor also benefit).  

Modern Marxists therefore emphasize psychological misery and alienation. They may be right; workers may often be bored and disgusted. But Marx does not tell us, for example, how socialism will make trash collecting exciting. If happy laborers work better, then at least under capitalism, owners have strong incentives to satisfy their employees.

Moreover, how should we define happiness in laborers? If wages are relative, why isn’t happiness? Should we ask the absolute question: Are workers today happier than they were one hundred years ago? Or should we ask the relative question: Are they growing happier at as fast a rate as capitalists? Consider: The rich are getting happier, and the poor are getting happier. But the rich are getting happier more quickly. Once we begin construing happiness so that we can test “scientific” Marxism, it’s a sad day for Marxists and non-Marxists alike.

Marx also prophesied the collapse of capitalism, a system that provides its own “gravediggers.” But capitalism does not seem dead yet. The unemployment rate is slightly higher than it was in the beginning of the 1900s, but if we consider the percentage of the population working, and especially the addition of women to the work force, employment is higher.

Furthermore, capitalism has often produced a middle class that indirectly owns some of the means of production through the stock markets. In the late 1980s, millions of lower-middle-class Britons bought shares in “privatized” companies such as British Telecom, British Steel, and British Airways. Most union pension funds in the United States invest heavily in corporate stock.

Some of Marx’s defenders point to the growth of government in capitalist nations as the surprising savior of capitalism. Social welfare spending protects the capitalists from deeper depressions and revolution. Marx’s defenders are probably right. But remember, Marx predicted that the political system and superstructure would stay static, resistant to change. Inflexibility would destroy it. If, in retrospect, the superstructure bowed to save capitalism, then Marx was wrong on two counts.

Finally, Marxists explain capitalism’s surprising success by pointing to foreign nations. Capitalists began exploiting foreign workers in lesser developed countries, they say, and these exploited workers abroad sustained the domestic economies. Again, even if the argument has merit, it takes us far astray from Marx’s analysis of capitalism’s internal, dialectical ruination.
In sum, Marx devised a scientific system in Capital. He confidently predicted the path of capitalism. With slippery and generous interpretations, he may have been right on occasion. But one thing is certain: Marx so despised religious sentimentalists, he would have angrily rejected the effort to win the argument by intellectual charity.

3. What did Marx give to modern economics? In mocking the relevance of a colleague’s theory, the economist Joan Robinson used to say: “Imagine a dog running through the meadow chasing a fox. The dog follows the fox’s trajectory. My colleague’s theory is the flea on the back of the dog.”

To most mainstream economists in the United States and Britain, Marx’s economic theories are fleas. Within the mainstream, the defiance of Marx is just as loud left-of-center as it is right-of-center. Paul Samuelson depicts the labor theory of value as either definitional or metaphysical chicanery.

During the Great Depression, George Bernard Shaw tried to persuade John Maynard Keynes of Marx’s virtues. Keynes resisted:

My feelings about Das Kapital are the same as my feelings about the Koran. I know that it is historically important and I know that many people, not all of whom are idiots, find it a sort of Rock of Ages and containing inspiration. Yet when I look into it, it is to me inexplicable that it can have this effect. Its dreary, out-of-date, academic controversy seems so extraordinarily unsuited for this purpose. But then, as I have said, I feel just the same about the Koran. How could either of these books carry fire and sword round half the world? It beats me. Clearly there is some defect in my understanding. Do you believe both Das Kapital and the Koran? Or only DK? But what ever sociological value of the latter, I am sure that its contemporary economic value (apart from occasional but inconstructive and discontinuous flashes of insight) is nil. Will you promise to read it again, if I do?

Shaw did. Keynes did. Did Keynes see the light or the Mecca? He did not:

“I prefer Engels of the two. I can see that they invented a certain method of carrying on and a vile manner of writing, both of which their successors have maintained with fidelity. But if you tell me that they discovered a clue to the economic riddle, still I am beaten.”

Since that genius Keynes was beaten, most modern economists have given up the fight and have stopped studying Marx. According to Frank Hahn, a distinguished critic of laissez-faire capitalism, “Most Marxists have never even read Marx. Of course, you really can’t blame them.”

Still Marx lurks behind the arguments of several thousand radical economists who publish the Review of Radical Political Economy and have a strong voice at the University of Massachusetts, Amherst. The etymological root of “radical” is “radic,” meaning root, as in radish. Like Marx, radical economists believe that the very root of modern economic theory
is rotten in its analysis of capitalism. Nonetheless, radicals do not want to be responsible for every sentence Marx uttered or for every prediction he pronounced.

A few radicals do still embrace Marx’s labor theory of value. All radicals, though, stress the issue of control under capitalism. The bosses strive to “divide and conquer,” and maintain control in the workplace and in the polling booth. The Polish Marxist Michal Kalecki argued in the 1940s that governments deliberately ignite inflations and recessions to smother the demands of workers. The contemporary radical Stephen Marglin claims that businesses often welcome recessions. If Marglin is right, a lot of people operate under a Marxian “false consciousness.” Consider Marglin’s reading of the presidential election of 1980: Ronald Reagan promised lower inflation without recession. Foolishly, he thought the bosses disliked recessions. But the bosses voted for Reagan anyway. Why? They knew he would fail and inadvertently incite a recession. He did, and, under Marglin’s thesis, they were happy to see their stock prices fall. 36

The modern radicals fight many battles—against the models of their economist colleagues, against the government, against the capitalists, and sometimes against the memory of their mentor, Karl Marx. So far their victories are hard to count.

4. What did Marx give to modern politics? The loudest cry in any debate about communism today comes from the Marxists who excoriate the politics of the former Soviet Union and its satellites. This is not the communism of Marx, they shout. Of course, they are right. For a start, Marx restricted communism to countries that had been industrialized (although in his last years, he cautiously considered an eventual revolution in Russia). Stalin had a difficult task in accelerating agrarian Russia into the industrial era. In accordance with the Communist Manifesto’s proposals (1) and (9), Stalin forced farmers to join collectives and state farms. During the winter of 1932-33, he deliberately starved millions to death to break their resistance, especially in the Ukraine.37

Before Stalin, Lenin had faced similar political troubles in reshaping the Russian mind. During his reign, the dictatorship of the proletariat emerged as a dictatorship of the Party—a dictatorship that would not soon wither away.

At the end of the 1980s, Mikhail Gorbachev tried to cure a sclerotic economy that had suffered through, its defenders say, seventy years of bad weather. At times Gorbachev seemed ready to jettison Marx and accept some free market mechanisms, including long-term leases of farmland and manufacturing shops to profit-seeking, private cooperatives. Gorbachev could not hold on, though, as the free market forces singed the communist hands that held onto the economy. Arguably, the fax machine played as big a role in ending the Cold War as any military technology, by permitting democracy organizers to spread their messages. Russian President Boris Yeltsin struggled to push the Russian economy forward, but was thwarted by corruption, an emergent mafia, and an elderly population that finds little advantage in a new economy. For pensioners, communism guaranteed them a sum—a paltry sum—but at least a dependable ration. Capitalism guarantees them nothing but
turmoil. In contrast, younger Russians have jumped at the opportunity to build new businesses, to travel freely, and to try their hand at entrepreneurship. This is a dangerous social split that looks nearly impossible to heal. It may be a deeper schism than the “capitalist vs. worker” rift that Marx and Lenin exploited. In July 1998, Yeltsin attended a burial ceremony in St. Petersburg for Czar Nicholas and his family, whose remains had been burned and left buried for decades. Yeltsin denounced the heinous butchering of the Czar by the Leninists, hoping to find an issue that young and old could agree upon.

The Chinese worshipped Marx after their 1949 revolution. They soon became polytheists, placing Mao ZeDong on the same altar. But in the late 1970s under Deng Xiaoping, the Chinese began to move quickly toward free enterprise in many sectors, chiding Marx and scolding Mao. Deng, who had been thrown into prison by Mao during the bloody 1960s Cultural Revolution, was a pragmatist, stating that “it doesn’t matter whether a cat is black or white so long as it catches mice.” He permitted shopkeepers to keep their profits and farmers to sell their own crops. What did they call this movement? They transliterated the term “free market.” Millions of Chinese think “free market” is a Chinese term. After some ten years of liberalization, however, conservative forces reasserted themselves in 1987 (although they did not dismantle the Kentucky Fried Chicken restaurant located on the other side of Mao’s tomb in Beijing). The backlash was temporary, though. After Deng’s death, new prime minister Zhu Rongji and President Jiang Jemin committed to sparking more private business and cutting the reach of publicly owned businesses. In 1998, Jiang even took on the army, whose fingers reach into every sector from hotels, to refrigerator plants, to karaoke bars. Chinese businessmen have woven themselves into the world economy. Most of the toys at your local Toys “R” Us were made in China. Meanwhile, more Chinese wash their hair with Procter & Gamble shampoo than any other brand! The odds of Zhu and Jiang succeeding in fostering more free enterprise, while still keeping the Communist Party in power, are daunting. There is little doubt, though, that this is not your father’s Communist Party.

The Soviet Union and China were, of course, the last of the large communist nations that claimed to be Marxist. As the Iron Curtain melted along the borders of Poland, East Germany, Czechoslovakia, Hungary, and Romania, more workers achieved the freedom to unite—against Marx’s ideas.

Thus far, no country has conformed to the Marxism his admirers envision. Even the kibbutzim of Israel seem to be evolving from socialist into capitalist projects. Perhaps no country will ever fulfill the Marxist’s dream, which promises more than the real world, filled with scarcity, egoism, and evil, can deliver. It is a dream that resembles a kind of heaven or paradise lost, better suited for angels than proletarians. Unfortunately, the yearning grows so strong that good people have been mesmerized into supporting vicious regimes that preach, but do not practice the Marxist gospel. George Bernard Shaw, who shook Stalin’s hand, saw years of Soviet oppression before shaking his head.
To many people today, Marx reminds us that economic change can be excruciating, that power can transform into oppression, and that the subservient sector of a population should be protected from exploitation. But these warnings apply even more crucially in communist regimes. Marx's admirers laud the younger, less scientific Marx. Rather than a cogent economic theorist or a charismatic political leader, Marx becomes an ever-present voice for humanistic social justice. He becomes like Tom Joad in John Steinbeck’s Grapes of Wrath:

“I’ll be ever’where—wherever you look. Wherever they’s a fight so hungry people can eat, I’ll be there. Wherever they’s a cop beatin’ up a guy, I’ll be there . . . I’ll be in the way guys yell when they’re mad . . . An’ when folks eat the stuff they raise an’ live in the houses they build—why, I’ll be there. See?”

Given the abuses and atrocities wreaked under the name of Marx, this is probably the best place for him.
CHAPTER VII

Alfred Marshall and the Marginalist Mind

The three snippets that follow, gathered from the worlds of literature and entertainment, can help us understand an important development in neoclassical economics:

In Evelyn Waugh’s novel Scoop, a British newspaper owner confronts an editor whose vocabulary consists of two responses: if the owner says something true, the editor replies “definitely”; if the owner says something untrue, the editor replies “up to a point.”

“Let me see, what’s the name of the place I mean? Capital of Japan? Yokohama, isn’t it?”

“Up to a point, Lord Copper.”

“And Hong Kong belongs to us, doesn’t it?”

“Definitely, Lord Copper.”

The old vaudeville comedian Henny Youngman, whose jokes have elicited more moans than ptomaine poisoning, framed many a classic line worthy of philosophical discourse, including:

“How’s your wife?”

“Compared to what?”

In the peculiar cult film The Adventures of Buckaroo Banzai, the hero reminds his friends of a metaphysical tautology:

“No matter where you go—there you are.”

“No matter where you go—there you are.” “Up to a point,” “Compared to what?” and “No matter where . . .” can be said to symbolize the powerful change in economic thought at the end of the nineteenth century called marginalism. Before we examine the impact of Alfred Marshall, the preeminent marginalist, let us see how these snippets can explain this new approach.

Imagine you are traveling through Europe. You begin in Greece and have a splendid time. On the way to Italy, you stop in Corfu, where you rent a moped and circle the charming island. In Italy you enjoy Florence more than any place you have ever seen. Your visit in Italy cost $800, but gave you thousands of dollars’ worth of pleasure. You reach Venice and then consider crossing the border into Austria. Austria, you fear, will be disappointing compared to Italy. You prefer calamari to Wiener schnitzel. How to decide whether to go forward or go home?

First, consider Buckaroo Banzai’s advice: “No matter where you go—there you are.” You are now on the border of Austria. Forget where you have been—the pleasure you had in
Italy is irrelevant! Marginalism declares that the past is behind you. The issue is whether to step forward, and the starting point is where you are now.

Second, think of Henny Youngman’s joke. What do you compare when choosing whether to go into Austria? You ignore the past pleasure in Italy and ask, Will the benefits of going to Austria exceed the costs of going to Austria? If a day in Austria will cost $50 and give you $75 worth of pleasure, go. So what if in Italy the benefits outweighed the costs by tenfold? The issue at hand is whether to go forward. And you should go forward if the benefits outstrip the costs, even if they exceed by a lesser margin than before.¹

Third, remember the editor in Scoop. Up to what point do you continue moving forward? You continue as long as the benefit of one step outweighs the cost of one step, until the marginal benefit equals the marginal cost. When a $50 day in Austria gives $50 of pleasure, you rest. To keep going would be like the proverbial boy who says he knows how to spell “banana,” but just doesn’t know when to stop. One shouldn’t get carried away with forward movement. Many businesses fail because they do not know when to stop expanding. When People Express airlines saw success in the early 1980s, it rapidly expanded the number of routes and aircraft it owned and ignored the warnings of many consultants. Within a few years the overambitious airline folded. In the late 1990s, Boston Market has walked into a similar mess.

The essence of marginalism is the insistence on incremental, gradual moves as the focus of inquiry. How do firms decide how many cars to produce? They continue producing until the revenue they receive from producing one more car equals the cost of producing that extra car. The marginal revenue/marginal cost rule has numerous applications in and out of economics. Some students study all night for exams. But if at midnight the cost of staying up an extra hour (in terms of fatigue the next day) exceeds the benefit of cramming a bit more, it’s better to be between the covers of a bed than the covers of a book.

Alfred Marshall did not invent or discover marginalism. The Frenchman Augustin Cournot and the Germans J. H. von Thünen and H. H. Gossen began exploring marginal analysis a decade or two before Marshall. William Stanley Jevons, an Englishman, contributed many important ideas that Marshall developed further, as did Carl Menger, founder of the Austrian school of economics. But Marshall will get prime attention here for four related reasons: First, he most clearly and comprehensively applied marginal analysis; second, he established the marginal tradition that dominates microeconomics today; third, he taught some of the most prominent twentieth-century economists, including John Maynard Keynes (and Keynes’ father), A. C. Pigou, and Joan Robinson; fourth, his life neatly contrasted with Mill’s and reflected the intellectual movements of his day, as well as the spirit of marginalism.
The Early Years

Alfred Marshall was born in Bermondsey, England, in 1842. His father, a Bank of England clerk, was a weak figure only if compared with James Mill or Caligula. William Marshall was a stern, nasty tyrant with a jutting jaw and an austere, Evangelical creed to match. William Marshall drilled Alfred on his schoolwork, often Hebrew lessons, until eleven at night. A kind aunt saved Alfred’s sanity, for he spent long summer holidays with her. She did not care so much for Hebrew, but did buy him a boat, a gun, and a pony.

Alfred soon put down the gun and got off the pony, trading Cowboy Alfred for Cambridge Alfred. This was an act of defiance. William wanted Alfred to accept a scholarship to Oxford, where he could study Latin and prepare for the ministry. But Alfred had a touch of the devil in him. While the father thought he was studying religion in his room, the rebellious son was often reading mathematics, which his father did not understand and therefore despised. For Alfred, mathematics was a symbol of liberation (perhaps, subconscious guilt led him later in life to hide his mathematical economics in footnotes and margins). As Keynes’ majestic essay on Marshall put it: “No! he would not take the scholarship and be buried at Oxford under dead languages; he would run away—to be a cabin-boy at Cambridge and climb the rigging of geometry and spy out the heavens.”

At St. John’s College, Cambridge, Marshall earned academic honors in mathematics and then pocketed money for coaching other mathematics students. Upon graduating in 1865, Marshall intended to study molecular physics, but metaphysics got in the way. In 1868 he trekked to Germany to read Kant in the original. Soon he followed his Cambridge colleague Henry Sidgwick into agnosticism. Sidgwick, who sometimes wrote on political economy, approved of Christian ethics and ideals, showing every Christian virtue except faith. An admirer once said that of all forms of wickedness, Sidgewickedness was the least wicked. According to Keynes, Sidgwick spent half his life proving that God did not exist and the rest of his life hoping he was wrong. While Marshall did not share Sidgwick’s tortured internal struggle, he did show a similar noble, ethical character.

To his father’s disappointment, Marshall did not hear God’s voice calling him to the pulpit, but he did hear cries of the poor urging him to study economics:

From metaphysics I went to Ethics, and thought that the justification of the existing condition of society was not easy. A friend, who had read a great deal of what are now called the Moral Sciences, constantly said: “Ah! if you understood Political Economy you would not say that.” So I read Mill’s Political Economy and got much excited about it. I had doubts as to the propriety of inequalities of opportunities, rather than of material comfort. Then, in my vacations I visited the poorest quarters of several cities and walked through one street after another, looking at the faces of the poorest people. Next, I resolved to make as thorough a study as I could of Political Economy.
Once Marshall had chosen economics as his calling, he showed priestly devotion to it. In the Middle Ages, three great disciplines reigned: theology, aimed at spiritual perfection; law, aimed at justice; and medicine, aimed at physical soundness. Marshall offered a fourth great vocation: economics, aimed at the material welfare of all. Though many economists fought among each other, Marshall never faltered in his respect for his profession and his dedication to improving the human condition.

Throughout his life Marshall fought for economics as a separate field apart from history and the “moral sciences.” While trying to carve a space in the curriculum for economics, he also tried to unify the practitioners. To Marshall, economics was a cooperative calling. He had little patience for internecine rivalries (he was especially touchy when others criticized his work). He said that nearly everything the classical economists taught, when properly interpreted, was right—except when they were criticizing one another. Economists must be guardians of reason and truth, above politically expedient allegiances:

Students of social science must fear popular approval. . . . If there is any set of opinions by the advocacy of which a newspaper can increase its sale, then the student, who wishes to leave the world in general and his country in particular better than it would be if he had not been born, is bound to dwell on the limitations and defects and errors, if any, in that set of opinions, and never to advocate them unconditionally.4

Cambridge inertia proved potent. Not until 1903 did Marshall persuade the university to establish a separate economics course.

But from Marshall’s first contact with economics in the 1860s, he began developing a system of it. He saved metaphysics for light vacation reading and spent his vacations in the Alps. Each summer he took a knapsack, and spent most of the time walking in the high Alps. . . . He left Cambridge early in June jaded and overworked and returned in October brown and strong and upright. . . . When walking in the Alps his practice was to get up at six. . . . He would walk with knapsack on his back for two or three hours. He would sit down, sometimes on a glacier, and have a long pull on some book—Goethe or Hegel or Kant or Herbert Spencer. . . . This was his philosophic stage. Later on he worked out his theories of Domestic and Foreign Trade in these walks. A large box of books, etc., was sent on from one stage to another, but he would go for a week or more just with a knapsack. He would wash his shirt by holding it in a fast-running stream and dry it by carrying it in his alpen-stock over his shoulder. He did most of his hardest thinking in these solitary Alpine walks.5

After teaching for nine years at St. John’s College, Marshall gained a wife and thereby, like Malthus, lost his fellowship. Mary Paley, great-granddaughter of Malthus’ intellectual archenemy, the Archdeacon William Paley, was a former student of Marshall’s and a lecturer in political economy. The Marshalls moved to University College at Bristol and then
Oxford before returning to Cambridge in 1885, when Marshall accepted the Chair in Political Economy.

Marshall was an engaging if quirky man with cheery blue eyes. His students tell of innumerable conversations over tea at his home. As a teacher, he stressed illustration and current events more than an orderly textbook approach. Marshall could find economic examples almost anywhere, sometimes in ancient history, other times in contemporary plays being performed in Cambridge. He spoke with a chuckle and often concluded sentences with a gleeful falsetto. Sometimes he seemed a bit silly. One famous story recalls a graduate student visiting Marshall’s home in search of a dissertation topic:

“Come in—come in,” he said, running in from a little passage, and I went with him upstairs. “Have you any idea what to do?” he asked me. I said, “No.” “Well, then, listen,” he said, producing a small black book. He proceeded to read out a list of subjects, having previously ordered me to hold up my hand when he came to one that I liked. In my nervousness I tried to close with the first subject, but Marshall took no notice and read on.

Marshall rejected the student’s second and third signals.

He kept reading out topics for another five minutes. Finally, Marshall stopped and asked, “Have you found a subject you like?” “I don’t know,” I began. “No one ever does,” he said, “but that’s my method.”

Despite such silliness, Marshall could be stunningly clever. According to Cambridge mythology, whenever a difficult mathematical treatise came out, Marshall would read just the first chapter and the last chapter. He would then stand in front of the fireplace and figure out the rest.

The Gradualist Approach

Perhaps no one among “hall of fame” economists contrasts more with the tempest-tossed mind of John Stuart Mill and the incendiary visions of Karl Marx. Marshall’s life and thought were about as frenzied as an old basset hound on a Sunday afternoon. Interestingly, his inner and outer calm reflected his view of economics and, indeed, his view of the world. He had read enough German philosophy to know that he had a Weltanschauung. Never one for legerdemain, Marshall immediately tells us his creed when we open the Principles of Economics, first published in 1890: “Natura non facit saltum,” nature makes no sudden leaps.

Whereas Apollonian and Dionysian forces battled in Mill’s mind and revolutions exploded in Marx’s, Marshall appeared as steady as the Alps. Like his predecessors, he hosted idealistic visions of a better world. But he was never fooled into abandoning careful analysis:
In every stage of civilization, poets in verse and prose have delighted to depict a past truly “Golden Age,” before the pressures of mere material gold have been felt. Their idyllic pictures have been beautiful, and have stimulated noble imaginations and resolves; but they have had very little historical truth. . . . But in the responsible conduct of affairs, it is worse than folly to ignore the imperfections which still cling to human nature.  


Alfred Marshall’s marginalism is evolution applied to economics. The businessman and the consumer make no great leaps, but step by step they try to improve their situations. Individuals, companies, and governments all adapt to changing prices. The fittest firms survive. Low profits drive out the weakest. Competitive pressures force firms to cut costs. Although the final results do resemble Adam Smith’s Newtonian economics, Marshall teaches us how to closely inspect individual decisions along the way. Marginalism paves the way for the development of microeconomics. And microeconomics persuades us that actors will reconsider their positions and decide to take new steps if the benefits exceed the cost. Only if benefits and costs stagnate can we assume constant, Newtonian behavior:

The main concern of economics is thus with human beings who are impelled, for good and evil, to change and progress. Fragmentary statical hypotheses are used as temporary auxiliaries to dynamical—or rather biological—conceptions: but the central idea of economics, even when its Foundations alone are under discussion, must be that of living force and movement.  

Marshall lived his life by a gradualist creed: he dared to be cautious. Sometimes he may have been too slow. While Marshall developed many of his ideas in the early 1870s, the Principles was published so many years later that critics disparaged his claims of originality, although more recent scholarship shows that many of his principles did appear in lectures decades before they appeared in print.

Fortunately, the Principles stayed fresh for a long time. First appearing in 1890, the text sold more and more copies every year, finally peaking in the 1920s. Marshall saw eight editions in his lifetime, and modern microeconomics textbooks still rest on this text. The Principles differs from contemporary works in several ways, though. First, Marshall could not resist moral platitudes. Every so often Marshall slips in advice that might be better suited for “Dear Abby”; sometimes he sounded like the right man to resolve a feud between Abby and her sister Ann Landers, but the wrong man to resolve a tough business dispute.
Happily, Marshall does not always sound as if he is addressing a convention of Victorian schoolmarms.

Second, in contrast with modern textbooks, which aim at students and specialists, the Principles often speaks directly to laymen. Economists cannot hide in pure theory, but must look at the world and try to improve it with the tools they develop. Marshall develops complex models, but he saves the complexity for footnotes and appendices. In the main text he uses simple, accessible English. Marshall warned that elegant models with “long-drawn-out and subtle reasonings” may become “scientific toys rather than engines for practical work.”\footnote{9} If Marshall wanted toys, he could have stayed with his aunt and played cowboys and Indians. Instead he sought a noble profession and urged others to follow. And they did, although he sometimes complained about his early students. By the first publication of the Principles, over half the chairs in economics in the United Kingdom were filled by his pupils. And as the number of chairs increased, more Marshallians settled into them.

Although trained as a mathematician, Marshall feared that economists would calculate themselves into irrelevancy. Ricardo forever remained a hero to Marshall, because Ricardo thought like a mathematician without resorting to obscure symbols and secret formulae. Marshall translated Ricardo and Mill into calculus, but never let his economic arguments rest solely on mathematical proofs. In a charming letter, Marshall put forth his system:

(1) Use mathematics as a shorthand language, rather than as an engine of inquiry. (2) Keep to them till you have done.

(3) Translate into English. (4) Then illustrate by examples that are important in real life. (5) Burn the mathematics. (6) If you can’t succeed in 4, burn 3. This last I did often.\footnote{10}

No wonder Pigou reported that Marshall read mathematical treatises in front of the fireplace. Perhaps Marshall’s maneuvers assuaged his guilt for stashing mathematical curves under his childhood bed the way other boys conceal sketches of other kinds of sinuous shapes.

Marshall was a little less pert about economic method than the preceding letter suggests. Like Mill, Marshall avoided the classical trap of declaring rigid economic laws. History had a place in economics along with deductive theory: “The chief fault in English economists at the beginning of the century was not that they ignored history and statistics, but that they regarded man as so to speak a constant quantity. . . . I do not assign any universality to economic dogmas. It is not a body of concrete truth, but an engine for the discovery of concrete truth.”\footnote{11} Marshall also realized that facts teach nothing by themselves. According to John Neville Keynes, Marshall employed “deductive political economy guided by observation.”\footnote{12} By finding a golden mean between the ivory tower and the public house, between pure theory and earthly fact, Marshall defended economics from the biting attacks of sociologists and moralists.
Rather than the Newton of economics, Marshall sought to be the Darwin. He would look at firms and see how they reacted to environmental changes. “The mecca of the economist lies in economic biology,” he declared.

**Economic Time—Short and Long Runs**

Rome was not built in a day, and man did not evolve from monkeys in a week. Paradoxically, Darwin taught that whereas a thousand years may be biologically insignificant, the brief lifetime of a mutant could determine the future of a species. Marshall realized that like biological time, “economic time” was not synchronized with Big Ben in London. Ten years does not simply permit a firm to do ten times what it could do in just one year. For some transactions, one year is a long time. For other moves, one year barely allows preparation.

During every step of economic analysis, clocks are ticking. During the first OPEC embargo in 1973, politicians grabbed economists by the necks, shaking them to and fro until they answered crucial questions: When will consumers respond to higher prices by conserving? When will General Motors, Ford, and Chrysler respond by producing smaller cars? When will oil companies respond by drilling elsewhere? Each of these eventually took place—but not at the same time.

Marshall tried to isolate particular tendencies and the time periods in which they operate. Time is “a chief cause of those difficulties . . . which make it necessary for man with his limited powers to go step by step; breaking up a complex question, studying one bit at a time, and at least combining his partial solutions into a more or less complete solution of the whole riddle.” Marshall created an ingenious system of analysis. While looking at one factor, he threw all others into a “pound.” There they waited while he vetted the solitary factor. He called the pound ceteris paribus, meaning “other things being equal: the existence of other tendencies is not denied, but their disturbing effect is neglected for a time. The more the issue is narrowed, the more exactly can it be handled.”

Prior economists had already advised a ceteris paribus assumption. But Marshall derived an explicit method and constructed rigorous theories according to it. Today’s textbooks rest on Marshall’s method.

Marshall’s method contrasted sharply with the highly theoretical and mathematical “general equilibrium” analysis of the nineteenth-century Frenchman Léon Walras. While Walras’ abstract apparatus receives little attention in undergraduate textbooks, his work was extended in modern times by some very intelligent theoreticians, including Nobel laureates Kenneth Arrow, Gerard Debreu, and Cambridge’s Frank Hahn. (An interesting aside: despite the dazzling mathematics behind Walrasian analysis, Walras twice failed the mathematics portion of his college entrance exam.)
An example may help our understanding of Marshall’s system. Assume the development of a new product called “Yuppie Yogurt,” which appeals to an obvious market, partly because it’s actually produced on Wall Street. Even better, assembly workers drop pieces of Godiva chocolate into the yogurt cultures as they grow. The slogan “Eat Your Way to the Top Without Getting a Fat Bottom!” drives yuppies wild for yogurt. On any particular day, the supply of Yuppie Yogurt is fixed. If computers crash and more than the usual number of yuppies take snack breaks, some will go hungry. By the time the producer hears about an excess demand, packages more yogurt, and sends it out of the factory, the working day is over. In the time frame of one day, therefore, only demand fluctuates.

With more notice, producers can boost supply. The second time period, which Marshall called the “short run,” lasts long enough for producers to change the amount supplied. To supply more, they can hire more labor and buy more raw materials. But they cannot expand too much. Marshall’s short run does not last long enough to build new manufacturing plants. What if Yuppie Yogurt manufacturers advertise on television, which sends demand flying? In the short run, they can buy more milk for the yogurt and hire more workers to add the chocolates. If demand falls, they can fire the workers and reduce their milk purchases.

Because plant capacity is fixed in the short run, producers do face the law of diminishing returns—that is, stuffing too many workers in a room reduces their productivity. Of course, producers will still employ the marginal rule and produce yogurt until the price they receive equals the cost of the last pint.

In the third period, the “long run,” producers have enough time to build new plants, as well as vary labor and materials. If demand for Yuppie Yogurt persists, they can even extend Wall Street into New York harbor—or erect a plant across the harbor. They may even replace the workers with pin-striped robots.

In the long run, new producers could enter the industry, and old producers who lost money could leave. Survivors would earn normal profits. Thus, supply becomes prominent in the long run.

How long are the short and long runs? It depends on the particular industry; the periods are defined by how long it takes to alter capital and capacity. Obviously, Marshall did not discuss Yuppie Yogurt. Instead he discussed fish. In the fishing industry, Marshall supposed that it would take a year or two to employ new ships. As technology improves, however, the long run (reaction time) may shrink.

Marshall had more to say about the size of firms. The classicalists often decreed that as a firm increased in its size, its average costs remained the same. Growth tended to neither help nor hurt a firm. By Marshall’s time, most economists spoke of decreasing returns: at some point bigness led to inefficient operations. In his fish examples, Marshall noted that too much fishing may deplete resources and eventually force fishermen to sail farther from shore for their catch. Nonetheless, Marshall asked, what if bigness made certain industries
more efficient? Larger companies often have access to cheaper credit and more efficient machinery. Today, General Motors can get a loan cheaper than you can; moreover, it can afford to buy a better assembly line than you.

Marshall identified two different sources for increasing returns to scale. Internal economies arise from division of labor, buying supplies in bulk, and using specialized, large machinery that smaller producers cannot afford to operate. Imagine “Chuck’s Crossings,” a small company that transports aristocrats across the Atlantic on luxurious dinghies. The cost to the company is $3,000 per passenger. If Chuck can attract 1,000 passengers, he can use the Queen Mary 2 instead of dinghies. With 1,000 on board, the cost per passenger is only $2,000. Thus, if Chuck can billow his sales, he can scrap the dinghies and sail more cheaply. (Eventually, if Chuck kept expanding, costs would likely rise because of management inefficiencies and marketing problems.)

The seemingly dull business of freight shipping has changed in radical and exciting ways over the past forty years. In the 1950s, when a ship steamed into port, one hundred stevedores would toil for a week unloading it. Now, with freight packed into containers, seven dockworkers can unload a major vessel in just a day. Those containers go directly from ships to trains to trucks with almost magical efficiency. This transportation revolution has stumped on distribution costs, making it economical for Americans to import bottled water from Fiji.

External economies follow from events outside of the particular firm. If an industry tends to locate in a particular area, the communities may provide an orderly, constant market for skilled labor. The firms get an extra push because subsidiary trades emerge, offering the industry low-cost supplies:

Good work is rightly appreciated, inventions and improvements in machinery, in processes and the general organization of the business have their merits promptly discussed: if one man starts a new idea, it is taken up by others and combined with suggestions of their own; and thus it becomes the source of further new ideas. And presently subsidiary trades grow up in the neighborhood, supplying it with implements and materials, organizing its traffic, and in many ways conducing to the economy of its material.15

One need only consider the rather incestuous relationship between Cambridge University and the collection of high-tech firms located in “Silicon Fen” to see important linkages between an industry and its suppliers. In an older example, Pennsylvania miners extracted coal, which was turned into coke and fed into nearby furnaces used in the steel industry.

Fargo, North Dakota, the butt of jokes and a sardonic movie, has become a fast-growing software powerhouse that boasts one of the lowest unemployment rates in the country. In the early 1990s, Fargo looked like just another Great Plains town fading away, as frigid winter winds blew through a dilapidated downtown. But some entrepreneurial souls figured out that modern telecommunications could permit them to design and sell software from
anywhere, including a remote place in North Dakota. Microsoft bought Great Plains Software Inc., expanded the facilities, and today Fargo is a bustling hub of technological know-how. Belying its dusty, backward reputation, North Dakota spends more on research and development than almost any other state, as a proportion of income.

If Marshall is right about increasing returns, then big is beautiful. If big is beautiful, competition could not long continue, for large firms would always defeat small firms. Chuck’s Crossings would always be swamped by Cunard. And a monopoly would dominate each industry. How could Marshall, a prime proponent of competition, live with this theoretical implication?

He could because he thought that firms could not live forever. He resorted again to biology and borrowed an organic metaphor. Entrepreneurs can fertilize and deliver a bouncing baby firm. They can nourish and raise it to adulthood. But soon the entrepreneurs die. Succeeding managers will frequently be less talented. New firms, sired by other entrepreneurs, will flourish:

Nature still presses on the private business by limiting the length of the life of the original founders, and by limiting even more narrowly that part of their lives in which their faculties retain full vigour. And so, after a while, the guidance of business falls into the hands of people with less energy and less creative genius, if not with less active interest in its prosperity. If it is turned into a joint-stock company, it may retain the advantages of division of labor, of specialized skill and machinery: it may even increase them by a further increase of its capital, and under favorable conditions it may secure a permanent and prominent place in the work of production. But it is likely to have lost so much of its elasticity and progressive force, that the advantages are no longer exclusively on its side in its competition with younger and smaller rivals.16

According to Marshall, the lean and hungry will eat into the profits of the fat and lazy. While Marshall’s theory seemed dated in post-World War II America with the rise of international conglomerates, they now appear rather contemporary. Stable, giant conglomerates of the 1970s, like Gulf and Western, ITT, AT&T, and IBM, all got thrashed in hotly competitive markets of the subsequent decades. RCA, which dominated media and electronics under longtime chief David Sarnoff, quickly unwound after his retirement.17 Later, even the famous red, neon RCA sign on its Rockefeller Center headquarters was dismantled, though millions of New Yorkers had lived their lives under its glow.

New entrepreneurial efforts may be willing to take more risks than established companies that must answer to stockholders. Even if the start-up ventures usually fail (perhaps for taking foolish risks), just one success story from a garage can spoil the careers of dozens of vice presidents for Long-Range Strategic Planning who work in shiny, glass skyscrapers. During the last thirty years, a clear majority of the new jobs created in the United States were created by companies with fewer than 500 employees.
In recent years, in a drive to create “meaner, leaner” businesses, many corporations streamlined by selling off divisions. National Distillers Corporation no longer produces liquor and has changed its name to Quantum Chemical Corporation. In March 1989, BusinessWeek devoted its cover story to the question: “Is Your Company Too Big?” AT&T’s biggest success in the 1990s was spinning off Lucent Technologies, which makes sophisticated telephone equipment. While AT&T languished, Lucent share prices soared into the stratosphere, until crashing in the “tech wreck” of 2000. At the same time, many corporations such as Time Inc. and Warner Communications merged in hopes of efficiently sharing knowledge and assets. The subsequent Time Warner merger with AOL in 2000 was miserably timed and miserably executed. Since the publication of Marshall’s Principles a hundred years ago, businessmen have continually struggled to balance flexibility and economies of scale in order to discover the optimal size of their enterprises.

**The Marginalist Consumer**

So far we have discussed the firm without examining the consumer. Marshall would not be happy with such one-sidedness, for he rebelled against the classical claim echoed by Ricardo and Mill that the value of a product reflects the hours it took to produce it. In a famous metaphor Marshall proclaimed that supply and demand are equally powerful: “We might as reasonably dispute whether it is the upper or the under blade of a pair of scissors that cuts a piece of paper, as whether value is governed by utility or cost of production.” With Marshall’s encouragement, then, let us combine supply and demand, using the marginalist tools.

The last time we left our Wall Street friends they were lusting for yogurt. Yuppie Debbie’s demand for yogurt is based on the additional satisfaction each half-pint of yogurt gives her. Marshall called this “marginal utility.” Jevons insisted on calling it “final utility.” Fortunately, they never lectured together, or a very boring debate might have followed.

Marshall and Jevons each asserted that Debbie’s marginal utility would diminish with each portion of yogurt. That is, the first portion might give her $1.00 worth of pleasure; the second, only $.90; the third, perhaps $.70; the fourth $.64; and so on. Finally, the idea of eating one more spoonful would repulse her. In deciding whether to buy yogurt, Debbie would compare the selling price to her marginal utility. If the selling price for each portion were $1.00, Debbie would buy only one (because a second portion costing $1.00 would give her only $.90 of pleasure). If the price were $.65, Debbie would buy three. The third portion, costing $.65, would give her $.70 of utility. But if she kept going and bought a fourth, it would give her only $.64 of pleasure. Economists draw downward-sloping demand curves that trace the diminishing marginal utility. In each case, Debbie compares the marginal utility (benefit) of yogurt to the marginal cost (price).
Marshall then enunciated the “law of demand:—The greater the amount to be sold, the smaller must be the price . . . the amount demanded increases with a fall in price, and diminishes with a rise in price.”

Of course, Marshall knew that price alone did not determine demand. He listed several other factors and placed them in the ceteris paribus pound. Most important of those he discussed are as follows: (1) the consumer’s tastes, customs, and preferences; (2) the consumer’s income; and (3) the price of rival goods. If Debbie read in the Wall Street Journal that eating Yuppie Yogurt helped one’s racquetball game, she would immediately begin salivating, and her tastes would change. Even if the price stayed the same, she would buy more. But in explaining the law of demand Marshall asked us to assume that tastes, income, and other prices remained steady. If so, the law of demand usually holds (a change in one of the impounded factors shifts the demand curve).

Marshall then deployed the marginalist principle again and asked the marginalist/Henny Youngman question: Where does Debbie step next? The rational consumer continually looks forward and compares the additional satisfaction available from one good with that of other goods. If $1.00 spent on yogurt yields $1.00 worth of pleasure, but that dollar spent on sushi would bring $1.20 of pleasure, Debbie should buy sushi. How long should she continue buying sushi? Remember that according to the law of diminishing marginal utility, as she buys more, sushi becomes worth less to her. Therefore, she should continue buying until the pleasure from sushi equals the pleasure from yogurt. In equilibrium, a dollar spent on all goods begets the same amount of pleasure. If a dollar spent on product A gives more pleasure than a dollar on product B, the consumer should consume more of A and less of B until the marginal utilities are equal. In Marshall’s words, the consumer is “constantly watching to see whether there is anything on which he is spending so much that he would gain by taking a little away from that line of expenditure and putting it on some other line.”

Marshall developed a similar framework for suppliers. As a producer supplies more, her costs tend to rise. The law of supply is opposite to the law of demand: supply will rise only if the price received from consumers rises. The producer compares the marginal cost of producing one more unit to the marginal benefit, the price. (A supply curve slopes upward, whereas a demand curve slopes downward.)

In the same way that the consumer constantly compares the marginal utility of spending a dollar on various products, the producer constantly compares the marginal utility of spending a dollar on capital (machinery) with the marginal utility of spending that dollar on labor. If a dollar spent on a new machine yields more than a dollar spent on a new employee, the manager will invest in machinery and reduce her labor force. In equilibrium, the marginal return from capital equals the marginal return from labor.

Assume that the firm is in equilibrium. The assembly union gets a raise. What happens? The marginal return from labor (the marginal output divided by the wage) falls in
comparison to the marginal return from capital. The manager would substitute a robot for a human assembler until the marginal returns equalize again. For this reason, Marshall blasted unions that supported make-work projects and featherbedding, for they only hurt their members.

Sometimes prices would lead the manager to fire robots and hire human assemblers if, for example, the cost of electricity rose or wages fell. The constant balancing act is not just between capital and labor, but among land, new machinery, used machinery, skilled labor, unskilled labor, and such. If land prices rise, a manager may build another story onto the plant rather than expand horizontally.

Marshall’s Principles do not argue that all producers act marginally or rationally. But if a producer does not, her competitors will be more successful and economic evolution will favor them. Eventually, the irrational firm will fail.

Whether consumers or producers, most economic agents live by the words of Henny Youngman, Evelyn Waugh, and Buckaroo Banzai, engaged in a never-ending comparison of marginal steps.

Is it the consumer or the producer who determines the price? Both. Like blades of scissors, the intersection of supply and demand gives us prices. While the classicalists overemphasized supply, Jevons overstressed demand. But Marshall’s persuasive idea of an “equilibrium point of demand and supply, was extended so as to discover a whole Copernican system, by which all the elements of the economic universe are kept in their place by mutual counterpose and interaction.”

Marshall also took time to rebut the Marxian labor theory of value. He starts by stating that man cannot create material things—man can only rearrange matter to make it more satisfying to others. Capitalists contribute to satisfying others by contributing their money. Their return rewards them for waiting, for not spending it today on consumer goods. Marshall speaks so forcefully here that direct quotation is warranted. Marx and others argued that labour always produces a “surplus” above its wages and the wear-and-tear of capital used in aiding it: and that the wrong done to labour lies in the exploitation of this surplus by others. But this assumption that the whole of this Surplus is the produce of labour, already takes for granted what they ultimately profess to prove by it; they make no attempt to prove it; and it is not true. It is not true that the spinning of yarn in a factory, after allowance has been made for the wear-and-tear of the machinery, is the product of the labour of the operatives. It is the product of their labour, together with that of the employer and subordinate managers, and of the capital employed; and that capital itself is the product of labour and waiting: and therefore the spinning is the product of labour of many kinds, and of waiting. If we admit that it is the product of labour alone, and not of labour and waiting, we can no doubt be compelled by inexorable logic to admit that there is
no justification for interest, the reward for waiting; for the conclusion is implied in the premiss.

. . . if it be true that the postponement of gratifications involves in general a sacrifice on the part of him who postpones, just as additional effort does on the part of him who labours; and if it be true that this postponement enables man to use methods of production of which the first cost is great; but by which the aggregate of enjoyment is increased, as certainly as it would be by an increase of labour; then it cannot be true that the value of a thing depends simply on the amount of labour spent on it. Every attempt to establish this premiss has necessarily assumed implicitly that the service performed by capital is a “free” good, rendered without sacrifice, and therefore needing no interest as a reward to induce its continuance; and this is the very conclusion which the premiss is wanted to prove. The strength of Rodbertus’ and Marx’s sympathies with suffering must always claim our respect: but what they regarded as the scientific foundation of their practical proposals appears to be little more than a series of arguments in a circle to the effect that there is no economic justification for interest, while that result has been all along latent in their premisses; though, in the case of Marx, it was shrouded by mysterious Hegelian phrases, with which he “coquettéd,” as he tells us in his Preface.23

The Elastic Economy

While developing his demand apparatus, Marshall refined one of the most important tools in all of economics, elasticity. Almost every economic debate today, whether “macro” or “micro,” confronts the elasticity issue. Every government policy must implicitly or explicitly deal with elasticity. What is this unavoidable, haunting specter? Elasticity is another name for responsiveness. How responsive are people to changes in prices? Do people adjust their purchases when prices rise or fall? Or do they continue buying the same amount? The answer, of course, depends on the product.

If the price of a product rises and people cut back their purchases, we say that demand is elastic. If they continue buying the same amount, demand is inelastic. More precisely, elasticity is the percentage change in demand divided by the percentage change in price. If a 10 percent change in price leads to an 11 percent change in purchases, demand is elastic. If it leads to a less than 10 percent change in purchases, demand is inelastic. If it leads to a 10 percent change, demand is “unit inelastic.” (If demand is highly elastic, we should see a nearly horizontal demand curve, indicating that people will easily adjust their purchases. If demand is highly inelastic, we should see a nearly vertical demand curve, indicating that people will purchase the same amount regardless of price.)

Why is this important? Let’s look at some simple examples. In nearly every James Bond movie, the following line appears: Bond says, “Vodka martini, shaken not stirred.” If Bond drinks one and only one vodka martini and does not substitute a gin martini or a glass of milk, his demand is inelastic. Regardless of price, he will drink one vodka martini. This puts
bartenders in a good position. They can charge a million dollars for a drink. Lucky for Bond, other bars will compete for his business.

Trouble arises, however, when a monopoly meets inelastic consumers. If only one company supplied insulin, for example, it could charge an outrageous price. When monopolies face inelastic consumers, government regulators often step in. Thus, for example, the relationship between pharmaceutical companies and the government is precarious. The government wants companies to perform research to cure diseases. But companies need assurances that the government will not just seize their miraculous discoveries and leave them bankrupt. On the other hand, the government must ensure that needy, desperate patients are not gouged.

For this reason most economists follow Marshall’s advice that many monopolies—for instance, water and electrical utilities—be regulated. Since they are “natural monopolies” (it would be inefficient to have several water companies lay pipes on one street), Marshall suggests that the government encourage them to expand output through subsidies or at least guarantees that they will remain profitable.

Often demand for goods is highly elastic. If the price of ice-berg lettuce rises, people will turn to Boston lettuce, romaine lettuce, or maybe the crabgrass on their front lawns.

What determines the degree of elasticity? First and most obvious, the number of substitutes available. The more alternatives, the easier consumers can switch. The demand for Robert De Niro may be inelastic. The only alternative seems to be Al Pacino, although some would say he is an almost perfect substitute. Hollywood first offered the part of Rick in Casablanca to Ronald Reagan, not Humphrey Bogart. Not exactly substitutes, but Marshall never claimed that everyone was rational.

Second, the more time we have to find substitutes, the more elastic demand can be. From the fall of 1973 to the summer of 1974, gasoline prices rose 45 percent. In that year demand fell by only 8 percent. After a few years, though, consumers showed much more elasticity. They bought smaller cars, rode mass transportation, and insulated homes. Airlines reduced their flight weight by cutting the number of pillows, blankets, and magazines. They also reduced the amount of food and fuel carried, and even thinned the exterior paint.

Third, Marshall argued that products unimportant in the household budget may be inelastic. If the price of toothpicks rose sharply, few would cut back. Toothpicks compose too small a percentage of the budget to worry about.

How does the elasticity issue sneak into every government policy? A few more examples will suffice:

1. Every few years, New York City’s MTA raises the subway fare, arguing that higher fares mean more revenue to balance the budget. The argument assumes that demand is
relatively inelastic. If too many people responded by taking buses, taxis, or horse-drawn carriages, total revenue would fall.

2. In 1998, the Clinton-Gore White House proposed jacking up cigarette taxes in order to cut teenage smoking. Vice President Gore asserted that for every 10 percent increase in cigarette prices, teenagers smoke 7 percent fewer cigarettes. Using these elasticity estimates, the White House proposed a $1.50 per pack increase, which it claimed would reduce smoking by 42 percent over a five-year period. Opponents argued that since lower-class Americans are disproportionately smokers, the burden of the tax would fall on their shoulders. At the same time that U.S. politicians debated the issue, Sweden actually cut its tobacco tax to make black market smuggling from neighboring countries less attractive.

3. From the early 1980s until the present, the United States has run large foreign trade deficits. In 1985 many economists blamed a “high” dollar—that is, American goods seemed expensive to foreigners, whereas their goods seemed cheap to Americans. These economists suggested driving the dollar downward by buying up foreign currencies, thus making American goods appear cheaper and thereby spurring foreigners to buy more (and making foreign goods appear more expensive to Americans). The argument assumes that domestic demand for foreign goods is elastic. From the spring of 1985 until the fall of 1987, the value of the dollar fell by 40 percent against the currencies of other industrialized nations. But it was not until the very end of 1987 that the trade deficit began falling. The long delay in reducing this deficit indicated less elasticity than expected. Economists also underestimated the willingness of foreign companies to maintain their market shares by allowing profits to fall, for prices of goods imported into the United States did not rise enough to fully reflect the dollar’s fall.\(^2\)

Elasticity underlies nearly every practical economic dispute. Marshall always warned that economists must confront the real world. A neat, theoretical model may be persuasive on paper, but prove useless when actual elasticities are included. By clarifying the concept, Marshall showed economists that they must unite theory and practice.

**The Big Picture**

On macroeconomic issues, Marshall did not venture far. He held to Say’s Law and the quantity theory of money, and he taught them both to Keynes. Keynes held to them for years before turning on Marshall and tossing them away, as we will later discuss.

Although Marshall thought the economy operated rather smoothly on its own, he admitted that business cycles bring ups and downs. Business optimism and pessimism accelerate and amplify the blips and dips. In the ascending phase, banks lend too boldly, even to novice businessmen. But when the economy finally slows, investors withdraw their funds, sending the economy down faster. “The fall of a lighted match . . . has often started a disastrous panic in a crowded theatre,” Marshall analogized.\(^2\) Happily, Marshall’s old friend,
time, heals all wounds, and the economy rises again. Though Keynes would agree that moods help swing the economy, he would later point out that after the fire goes out, the theater remains ruined for a long time. Depression can be a long-running act.

One macroeconomic distinction that Marshall and Yale professor Irving Fisher drew has still not been accepted by politicians today. Economists distinguish between real interest rates and nominal interest rates. Nominal interest rates are the lending and borrowing rates as usually posted in the windows of banks. Real interest rates subtract the rate of inflation from nominal rates: if bonds pay 10 percent, but inflation is 7 percent, the real rate is 3 percent.

Politicians have been known to define the real interest rate as the rate you “really” have to pay when you go to the bank for a loan.

Despite the grand theoretical scope of the Principles, Marshall insisted that economics must be practical. He frequently served on royal commissions and testified before Parliament. He studied economics to help the poor. Years later, he said to the Royal Commission on the Aged Poor: “I have devoted myself for the last twenty-five years to the problem of poverty; and very little of my work has been devoted to any enquiry which does not bear upon that.” He supported public education and a moderate redistribution of wealth, because it would heighten productivity and social happiness.

Marshall stopped far short of socialism, at one point calling it the “greatest present danger.” Like philosophers and economists as far back as Aristotle, Marshall feared that collective ownership would “deaden the energies of mankind, and arrest economic progress; unless before its introduction the whole people had acquired an unselfish devotion to the public good.” Revealing again his gradualist, evolutionary Weltanschauung, Marshall observed that “patient students of economics generally anticipate little good and much evil from schemes for sudden and violent reorganization of the economic, social and political conditions of life.”

To Marshall, “impatient” was nearly as devastating an insult as “dishonest.”

Marshall thought that both the classical pessimists and the hopeful Marxists were wrong. The stationary state had not arrived yet. Population did not outstrip food. Landlords did not reign. Although poverty still degraded a portion of the citizenry, the hope that poverty and ignorance may gradually be extinguished, derives indeed much support from the steady progress of the working classes during the nineteenth century. The steam-engine has relieved them of much exhausting and degrading toil; wages have risen; education has been improved and become more general; the railway and the printing press have enabled members of the same trade in different parts of the country to communicate easily with one another, and to undertake and carry out broad and far-seeing lines of policy; while the growing demand for intelligent work has caused the artisan classes to increase so rapidly that they now outnumber those whose labor is entirely unskilled. A great part of the
artisans have ceased to belong to the “lower classes” in the sense in which the term was originally used; and some of them already lead a more refined and noble life than did the majority of the upper classes even a century ago.28

Only Marx wrote a more glowing paean to capitalism.

But Marshall was no knave. He knew work had to be done. He begged his students to help make economics a tool for enhancing man’s well-being. He was disgusted by the remaining poverty he saw, but he refused to let disgust guide his economic logic. Nature would make no quick leaps in wiping out destitution.

Marshall lived to the age of eighty-two, remaining the grand old professor of Cambridge. Keynes praises Marshall for a rare combination of gifts. The master economist must, like Marshall, be a mathematician, historian, statesman, and philosopher to some degree. “He must study the present in the light of the past for the purposes of the future.”29

A man who shared Karl Marx’s surname but had a better sense of humor was once scolded: “Sir, you try my patience.” Groucho responded: “I don’t mind if I do. You must come over and try mine sometime.”

All economists would do well to “try” Marshall’s brand of patience. He did not wait for answers, he searched for them. He did not wait for their adoption, he campaigned for them. But he never embraced his own ideas without cautious thought. And he never rejected the ideas of others without careful reflection. He wanted to unite classical and marginalist economics. He wanted to understand slopes and plateaus, change and equilibrium, evolution and stability. In the end, he did much of this, while reconciling a heart of soft gold and a mind as sharp and clear as a diamond.
CHAPTER VIII

Old and New Institutionalists

The idea of “old” and “young” in economics means very little. As Alfred Marshall taught, economics has a different kind of clock. An eighty-five-year-old firm may fail because it adopts new techniques without proper testing. Is it an old firm or a new firm?

What do we mean by “Old” and “New” Institutionalists? Clear definitions and distinctions are impossible. Generally, institutionalists look away from the usual economic categories: rents, profits, income, capital, labor costs, and such. Instead they focus on society’s laws, ethos, and institutions for insight. The old institutionalists, who emerged in the beginning of this century, criticized Marshall’s eager students for sitting in their offices, drawing the blinds closed, and manipulating irrelevant mathematical curves rather than examining the real world, as their master had implored. In the hands of his proselytes, Marshall’s abstract theory ignored too much, the old institutionalists charged. While the Marshallians naively and gleefully slid along their curves, institutions were evolving and economic theory was growing obsolete.

The new institutionalists are startlingly different from the old school. Like the old institutionalists they look at society’s institutions—but they use the very tools of Marshall that the old institutionalists assailed.

Veblen and the Old Institutionalists

Let’s first look at the old school by examining its preeminent member, Thorstein Veblen. Except for Karl Marx, the economists we have discussed so far were rather mild-mannered. They probably would have made good neighbors, and one can imagine Adam Smith and Alfred Marshall as jovial Boy Scout leaders. Veblen is a refreshing, devilish exception. Along with a puckish persona, Veblen contributes a scalding critique to the history of economic thought.

Veblen’s institutional approach bashes two pillars of neoclassical economics: (1) Marshall’s law of demand, which says that people buy more of a good when the price falls; and (2) the assumption that laborers work only because they are paid and do not “work for work’s sake.”

Veblen also attacks the marginalists for assuming a smooth, gradual path to a point of equilibrium. Equilibria do not exist; the economy always changes, the old institutionalists charge. Equilibrium is a daydream of economists who do not live in the real world.

Veblen was probably a better critic than a constructive theorist. He was not sure how to reconstruct economics, but he was sure that Marshall and his followers made a mess.
Veblen thought that economists should be less turf conscious and more willing to meet with sociologists, anthropologists, and psychologists if they wanted to develop better theories.¹

Who was Thorstein Veblen, this penetrating critic of neoclassical economics? He was born on a Wisconsin farm in 1857, the son of Norwegian immigrants. When he was eight, the family moved to Minnesota, where the cheese was less good, but the crops more plentiful.

Like other American immigrants, the Veblen family was poor. But the children did not know it. They had enough to eat, and their neighbors lived a similarly rustic, humble life.

Commentators almost always link Veblen’s critical attitude to his family’s impoverished, immigrant status. Throwing Veblen on the psychoanalyst’s couch, they portray him as a pariah in the United States. In the close-knit immigrant communities of Wisconsin and Minnesota, English was a second language. The pariah theory argues that Veblen’s outsider status gave him a unique and unbiased view of American economic life. He could see the cracks in the foundation of capitalism because his eyes pierced through the facade. Veblen himself employed a similar hypothesis in his essay “The Intellectual Pre-eminence of Jews in Modern Europe.”

No doubt there is something to this, but such environmental explanations may reach too far. After all, his eleven brothers and sisters, equally Norwegian, never showed spectacular insight. In fact, Veblen was always a bit of a kook, albeit a shrewd one. He might have been just as kooky and incisive had he grown up in Norway. A precocious child, Veblen manipulated his parents so that his chores involved reading books in the attic, while his duller siblings toiled in the fields. At seventeen, Veblen attended nearby Carleton College Academy. Because Carleton was not a Lutheran institution, which would have catered to Veblen’s Scandinavian culture, Veblen’s rough social skills presented problems. He showed up for formal affairs in a coonskin cap, and during one class exercise Veblen delivered a sober speech calling for drunkenness. It didn’t go down well with the denominational college. Nor did his serious speech calling for cannibalism. No surprise that the college pushed this heathen to finish his degree ahead of everyone else.

But Veblen graduated with high honors.

Veblen did not convert the college to alcoholism or to cannibalism. During his stay, though, John Bates Clark (later recognized as an eminent American marginalist) persuaded him to read economics. Veblen found it intriguing, but decided instead to pursue an academic career in philosophy at Yale. He should have started with the myth of Sisyphus. After completing his doctoral thesis, he would spend a number of frustrating years wandering, loafing around the family farm while his siblings toiled, applying for jobs and waiting for rejections.

Eventually, Veblen’s Ph.D. from Yale landed him a job at Cornell—teaching economics. His future mentor, J. Laurence Laughlin, had been “sitting in Ithaca when an anemic-looking person, wearing a coonskin cap and corduroy trousers, entered and in the mildest possible
tone announced: ‘I am Thorstein Veblen.’ After two years, Laughlin moved to the University of Chicago, along with his protégé.

Now in his mid-thirties and married for a few years to the niece of the president of Carleton College, Veblen worked on his writing and teaching, as well as his philandering. Two of these came easy.

Let us start with the writing. This involved numerous reviews and articles on such odd subjects as “The Economic Theory of Women’s Dress” and “The Barbarian Status of Women.” His teaching involved mumbling, teasing, taunting, and daring his students to quit. He was happy that most did. This apparently sadistic, irreverent man would start the semester by smearing the blackboard with book titles and then announcing that next week’s exam would cover all of the books. He almost always gave “C’s”—to discourage the Phi Beta Kappa aspirants. As for philandering, the juicy details of his sexual escapades remain a secret.

**Deriding the Leisure Class**

Regardless of Veblen’s manner and extracurricular activities, one thing is certain: His first book, The Theory of the Leisure Class (1899), demonstrated that the man who spoke in mumbles wrote pristine prose. Subtitled “An Economic Study of Institutions,” Veblen’s book thrashed the neoclassical model of demand. According to Veblen, the neoclassicalists assumed that each consumer independently weighed the costs and benefits of purchasing an item. In an earlier article, Veblen put it in more sensational, mixed-metaphoric language: “The hedonistic conception of man is that of a lightning calculator of pleasures and pains, who oscillates like a homogeneous globule of desire of happiness under the impulse of stimuli that shift him about the area, but leave him intact.”

What is glaringly wrong with this model? An individual is not an independent globule. Each globule looks at other globules before deciding where to go. Except for a few trendsetters and sociopaths, most people want to either keep up with the Joneses or at least look over the fence to see what the Joneses are doing. An individual’s valuation of utility depends partly on what her neighbors will think of a purchase. The ritziest host serves caviar at a party. The most insecure guest proclaims the splendor of the salty fish eggs. But how many guests really like caviar better than ice cream or chocolate-chip cookies?

Veblen’s biting observations apply also to fashions. Pity the man who strolls down Wall Street in a polyester leisure suit. “How many polystyrenes were killed for that?” a wag may tease. But leisure suits were once stylish. Did the leisure suit change? No. Fashions changed.

Veblen conducts a lengthy anthropological study in The Theory of the Leisure Class, alluding to the Ainu of Yezo, the Todas of Nilgiri Hills, and the bushmen of Australia. Relying partly on the research of Lewis Morgan and Franz Boas (Margaret Mead’s mentor), Veblen
disCOVERs an “emulatory instinct.” Sure enough, he says, the grass is always greener on the other side of the bush, and Todas do try to keep up with other Todas.

Self-preservation is, of course, the primal instinct. But soon after the process of evolution separated the chimps from the boys, the boys began judging their social status by property ownership. He who plundered amassed social esteem as well as wealth.

Eventually, how one acquired property became important. If a person gathered property by toil and sweat, he was not admired. According to Veblen, the family that gained property passively, without a drop of perspiration, earned admiration and incited emulation in the community. The leisure class was born.

Today, Veblen is memorialized by a deodorant company that advertises the following golden rule of social climbing: “Never let them see you sweat.” The sweaty man betrays his commonness. Effortless grace is the goal. The aristocrat shudders at sweat the way a soufflé chef shivers at a slamming door.

Veblen provides two dramatic examples of the leisure class working hard to maintain their nonworking status. First, “we are told of certain Polynesian chiefs, who, under the stress of good form, preferred to starve than carry their food to their mouths with their own hands.” Second, a “better illustration, or at least a more unmistakable one, is afforded by a certain king of France, who is said to have lost his life through an excess of moral stamina in the observance of good form. In the absence of a functionary whose office it was to shift his master’s seat, the king sat uncomplaining before the fire and suffered his royal person to be toasted beyond recovery.”

Along with “conspicuous leisure,” Veblen also sneers at “conspicuous consumption.” Our modern culture overflows with examples. Clothing used to have labels on the inside, hidden from view. Today, designer labels blaze from shirts, ties, blouses, and the seats of pants. Of course, it’s free advertising for the designer. More important, it’s paid advertising by the consumer. Ralph Lauren’s name tells the world that the wearer can afford expensive clothing. (One wonders how the designer’s original name, Ralph Lifschitz, would look on an expensive sweater.) In the movie Back to the Future, the 1950s schoolgirl assumes that the name of her friend from the future is “Calvin,” because he wears jeans bearing that name.

Automobiles obviously provide more than mere transportation. According to comedian Jackie Mason, throughout the United States the Cadillac is considered one of the finest cars—except in Beverly Hills and Cedarhurst, Long Island. In those two hamlets, all respectable citizens own a Mercedes-Benz. A Cadillac is repugnant. No one will accept blame for a Cadillac in his driveway: “Oh, it’s not mine . . . I don’t know whose it is . . . maybe my tacky neighbor’s . . . someone must have left it there last night . . . I’ll call the garbage men now to remove it.” Why do they like Mercedes? “The engineering,” they insist. But these engineering aficionados probably don’t even know how a toaster works, much less a $70,000 car.
According to Washington legend, Senator Everett Dirksen was the first man in Washington with a telephone in his car and enjoyed calling up his rivals to remind them. One rival, Senator Lyndon Johnson, exploded in rage. He installed an even better system. Immediately after its arrival, Johnson called Dirksen. They spoke for a minute. Then Johnson barked: “Sorry, Everett, I’ll have to put you on hold. I’ve got a call on my other line!”

At first, Veblen’s piercing observations found their way more easily into sociology than economics. In 1950, though, Professor Harvey Leibenstein published an article entitled “Bandwagon, Snob, and Veblen Effects in the Theory of Consumer Demand” that applied Veblen’s theory to economics. Usually, he said, Marshall’s law of demand reigns, a lower price leads to more demand. But for some goods, “Veblen goods,” a consumer’s demand is determined by the use of the good and the price that the consumer thinks other people will think she paid, the expected conspicuous price. Recently, Ursinus College in Pennsylvania jacked up its tuition by almost 18 percent. Why? It wanted to boost its prestige. Surprisingly, it also boosted the number of applications by 35 percent. “It’s bizarre and embarrassing,” said the college president. If the market price of Gucci handbags falls so that they become available in any department store, we may soon see fewer Gucci bags sold. They will have lost their Veblenesque appeal. You cannot be taken seriously at the country club with Kmart clothing. You might as well drive up to a valet parking attendant in Beverly Hills with a Cadillac.

The Creative Urge of Engineers

Producers know that envy and peer pressure force consumers to act. According to Veblen and his disciples, businessmen spend more time enhancing a product’s expected conspicuous price than improving its usefulness. This, the institutionalists argue, is a shame and a waste of time and talent, resulting in slicker advertisements for shoddier products.

It is also a perversion of a natural drive. Like Marx, Veblen believed in the creative urge, the instinct of workmanship. Unfortunately, as conspicuous leisure and conspicuous consumption infect society, the creative desire suffers.

Veblen avoids Marx’s class struggle analysis. To Veblen, the enemies are not capitalists, and the heroes are not laborers. He portrays a different cast of characters: The bad guys are businessmen (whether or not they own the companies), and the good guys are engineers. In the modern world, only the engineers accept the urge to create, improve, and produce. Businessmen, who boss them around, strangle creativity. Businessmen thrill at conspicuous consumption. They produce for one reason only: to make money. If they could make money without making a single product, they would be happier. Compare the dreams of engineers and businessmen. The engineer goes to bed each night with pens in pocket and calculator on hip. He dreams of inventing the perfect, absolutely efficient motor. The businessman goes to bed in pin-striped pajamas. He dreams that the public suddenly finds his old product
fashionable. That way he makes millions of dollars, without investing one cent in new technology or innovative thought.

The history of IBM is filled with bitter battles, almost insane arguments, between founder Thomas Watson, Sr. and his son Thomas, Jr. In the 1950s, Watson, Sr. wanted the company to stick to selling punch-card machines. His son, who hired newly minted engineers, urged the company to develop electronic computers. The old man worried that computers would make IBM’s lucrative punch cards obsolete. The son, as president, bet nearly all the company’s assets on computing. IBM survived the radical transformation, but their personal relationship almost did not. The lesson: It is better to make yourself obsolete than to wait for your competitors to do it for you.

Veblen thought that the rise of scientific engineers in the twentieth century would bring the downfall of the philosophical bases of capitalism. Veblen expected machines to discipline modern minds and arouse suspicion in capitalist superstition and catechism. Because engineers and even lowly machine operators see scientific relationships, Veblen thought they would rebel against symbolism, ceremony, and abstract collective beliefs in God, country, and private property:

What the discipline of the machine industry inculcates, therefore, in the habits of life and of thought of the workman, is regularity of sequence and mechanical precision; and the intellectual outcome is an habitual resort to terms of measurable cause and effect, together with a relative neglect and disparagement of such exercise of the intellectual faculties as does not run on these lines.

Veblen predicted that the conflict between engineers and managers would ravage more than just philosophical underpinnings. The economy would also waste and wear down. Captains of industry strive to achieve high profits. Two lanes lead to this goal. The first involves restricting output in a monopolistic manner. The second involves lowering production costs. Since businessmen know little about mechanics, they neglect efficiency. Veblen blasted a conscientious withdrawal of efficiency. After the manager invests in old techniques, he prefers to hold back production and to hold back advances. In contrast, the engineer yearns to move ahead. The manager prefers cheap, cosmetic distinctions. The engineer wants to satisfy needs. The engineer wants to build a better mousetrap; the manager wants to trap the consumer. By stressing short-term financial gain, businessmen and financiers sabotage long-term economic growth.

Veblen offered only faint hope that government would rein in the robber baron businessmen. In fact, it was too late, for businessmen had already lassoed and corralled public officials: “representative government means, chiefly, representation of business interests.” Despite his critique of neoclassical economics, Veblen sometimes echoed Adam Smith, especially on trade restrictions:
Where the national government is charged with the general care of the country’s business interests, as is invariably the case among civilized nations, it follows from the nature of the case that the nation’s lawmakers and administration will have some share in administering that necessary modicum of sabotage that must always go into the day’s work of carrying on industry by business methods and for business purposes. The government is in a position to penalize excess . . . traffic.11

Veblen viewed labor unions and their bosses with the same contempt he kept ready for government. Like businesses, he said, unions also block efficiency and sabotage the economy. Rather than aiding common workers, unions raise wages by stepping on the backs of the nonunion employees:

The rank and file . . . stand on the defensive in maintaining a vested interest in the prerogatives and perquisites of their organization. They are apparently moved by a feeling that so long as the established arrangements are maintained they will come in for a little something over and above what goes to the common man.12

In Engineers and the Price System, Veblen speculated that engineers might grow so disgusted with waste and wanton sabotage that they would overthrow their bosses and take charge of the factory floor and the boardroom. After all, the administrators needed them more than they needed the administrators. Technical specialists representing 1 percent of the population, and without one college credit of political science, might emerge as the “philosopher kings” of Veblen’s republic: “. . . it will no longer be practicable to leave . . . control in the hands of businessmen working at cross purposes for private gain, or to entrust its continued administration to others than suitably trained technological experts, production engineers without a commercial interest.”13

Like Marx, Veblen had little idea what the new rulers would do. But he was sure they would not do worse.

Veblen writes as if engineers and businessmen represented two entirely different species, but this seems more farfetched as the years go by. According to a Fortune magazine survey, a very high percentage of corporate chief executive officers started in engineering labs,14 and engineers make up a large percentage of today’s MBA students. Veblen also assumes that engineers who take power will not surrender to self-interest. But why won’t they act as nastily as the oligopolists they replace? Are engineers really more beneficent and permanently committed to the creative urge?

Veblen did not assemble a detailed model of the economy. He did not think he or anyone else could. So he spent much of his time tearing down the neat theories of his predecessors. Alfred Marshall placed nonmonetary factors in a “pound” called ceteris paribus. Veblen displayed the courage to enter the pound and yet the forces that Marshall assumed would remain steady, such as tastes. Veblen snickered at economists who ignored the unpredictable, human side of economics. Howard Hughes recalled seeing John D.
Rockefeller only once, “but when I saw the face, I knew what made Standard Oil.” One cannot quantify a face or predict how a grimace from the boss can change productivity on the shop floor.

Veblen is still fun to read and read about. His most distinguished student depicted Veblen writing with “one eye on the scientific merits of his analysis, and his other eye fixed on the squirming reader.” Learning from Veblen was like doing a vivisection without an anesthetic. Not everyone could take it, but no one could forget it. Veblen still haunts us. Every time some big-shot executive conspicuously whisks off in a tint-windowed, stretch limousine while we poor slobs wait in the rain for a bus, Thorstein Veblen unleashes a sinister laugh.

**Galbraith and the Lure of Advertising**

Veblen inspired many outstanding disciples, including Wesley Mitchell, John R. Commons, and the sociologist C. Wright Mills. But the follower most famous to the public for keeping alive Veblenite jokes and jibes is John Kenneth Galbraith. In his long career Galbraith took many controversial economic positions. His colleagues acknowledge two areas in which he indisputably reigned supreme: height and humor. Born in rural Canada, Galbraith drolly identified with Veblen’s bucolic background. He wrote that a good farmer needs a strong back and a weak mind. In his memoir, Galbraith recalls the kind of summer day that inspires an adolescent’s hormones. While strolling through an orchard with the fair lass who filled his pubescent dreams, Galbraith pointed to the lush field where the family cows were grazing. As they winsomely gazed, they noticed a white bull “serving” a heifer that was in season. As the lass looked with interest, Galbraith summoned the courage to say: “I think it would be fun to do that.”

The lass did not blink at the subtle suggestion. She replied: “Well, it’s your cow.”

Galbraith, who died in 2006 at age ninety-seven, spent most of his long career in the United States, serving as Harvard professor, presidential adviser, novelist, and social commentator. He wore many of these hats simultaneously. For this, many economists deride his works for superficial, dilettantish economics. To wear many hats, you need both a big head and a lot of brains. Only that genius Keynes could get away with it, they insinuate.

Not that Galbraith boasted of superhuman talents. When President Truman telephoned Galbraith to request his help in regulating wages and prices, a young Galbraith reportedly recoiled, “Surely there are at least ten other economists far more qualified, Mr. President.”

“Damn right there are! But none of them will take the job!”

Galbraith took the job and developed a political and economic philosophy favorable to big government. In three major works, The Affluent Society (1958), The New Industrial State (1967), and Economics and the Public Purpose (1973), Galbraith savaged modern capitalism and its chief apologists, neoclassical economists. Galbraith’s writings mocked the same
objects that Veblen mocked. How could anyone believe in Smithian competition in the face of enormous, rapacious corporations? For him, the theory of Marshallian competition ranks high on the same fantastic list as Tinkerbell, Santa Claus, and Snow White. Only intellectual dwarfs who couldn’t see above their windowsills would deny the awesome power of General Motors, Galbraith insisted.

How could anyone still believe the myth called “consumer sovereignty,” that consumers determine what subservient firms will produce? Galbraith argues that causation works in the reverse direction, that firms mold consumers to serve their sales needs.

Imagine the following scenario. You walk into a supermarket to buy Cocoa Puffs cereal. You are “Cuckoo for Cocoa Puffs,” as the advertisement screams. Ken Galbraith strides in to buy generic, healthful, sugarless, tasteless Bran Dust cereal to keep him going. You turn to Galbraith in the cashier line and say:

“I’ve got to have Cocoa Puffs in the morning. I really like them.”

Galbraith objects loudly. He distinguishes “needs” and “wants.” You cannot need Cocoa Puffs. All needs emanate from within. There is no natural drive to consume Cocoa Puffs. You merely want the cereal, and wants are less important than needs. Second, Galbraith denies that you determined your desire for Cocoa Puffs. Madison Avenue advertisers persuaded you to want Cocoa Puffs. Advertising and salesmanship “cannot be reconciled with the notion of independently determined desires, for their central function is to create desire—to bring into being wants that previously did not exist.”

Galbraith thinks he has exploded Marshall’s “marginal utility of demand.” For the market does not read the consumer’s true demand for goods, formed in his heart of hearts; it reads the artificial desires implanted by manipulative advertisers. Galbraith calls this the dependence effect.

Galbraith does not stop at a mere assertion. He also infers a powerful conclusion: Since firms invent and instill wants, and wants are not urgent, the government should limit private consumption and use resources to improve public facilities. Galbraith denounces the fancy limousine that roars through decrepit parks and slums, and asserts that private America flourishes in disgusting, selfish affluence, while public America starves. Americans do not really want this imbalance. Corporations mesmerize them.

Galbraith foresees an even more despicable future, unless the government adopts principles of democratic socialism and planning. He predicts more unemployment as technology displaces workers, more pollution, and more houses filled with “new, improved” useless gadgets. Who really needs the pump toothpaste tube, anyway? Was the squeeze tube too complex?
Galbraith’s salvo strikes the nerve center of neoclassical economics. If he exposes marginal utility analysis to be as impotent as the Wizard of Oz, Marshall turns out to be a brainless Scarecrow.

But who flies in from the East to play the Good Witch and pour water all over Galbraith’s theory? Friedrich von Hayek.

In “The Non Sequitur of the Dependence Effect,” Hayek repels Galbraith’s charge that all important wants come from within. He contends that only a few needs truly emerge naturally. Does Galbraith mean that only food and sex are important in life, and that all other concerns are trivial desires? Hayek asks why environmental influences should negate the importance of desires.

If Galbraith’s logic is right, culture is trivial. Nobody in the eighteenth century ever woke up and said, “Boy, I wish there was a Mozart symphony.” Mozart composed and then aroused in others a desire for his music. Is his music a mere toy of the rich? Or is it a significant, enhancing contribution to mankind?

For years the Public Broadcasting System promoted Julia Child, “the French Chef.” Prior to her show, did any viewers wake up in the middle of the night craving a tall, goofy woman with a funny voice to teach them to cook? Of course not (nightmares notwithstanding).

What we call civilization is largely a reflection of external factors vying for the brain’s attention and affections.

Galbraith pleads for more public schools. Presumably, the schools would spend much time teaching “unimportant,” “externally contrived” things like literature and music.

No doubt, modern homes bulge with silly toys, appliances, and “conversation pieces.” But what possible remedy can Galbraith provide without appearing either tyrannical or contradictory?

A simple ban on consumer goods is tyrannical. Instead, Galbraith could urge a ban on the advertising of consumer goods. Taking Galbraith’s advice, leaders could implore the public to spend their money more wisely and less conspicuously. Leaders could persuade people to contribute private wealth for public goods. But this advice contradicts Galbraith’s own principle! By promoting more prudent consumption and more public goods, the leaders would instill new “externally contrived,” “non-urgent” wants. Advertising, whether by politicians or salesmen, is still advertising.

This critique of Galbraith does not imply that politicians should not advocate public schools. But Galbraith should not push politicians toward this without conceding the flaw in his “dependence effect” theory.

Galbraith probably exaggerates the power of advertising, which is a complex issue. No doubt an advertising battle among virtually identical products that features only musical
Jingles and jiggling models is a waste of resources. However, many advertisements deliver some useful information amid much flashiness. Does the flashiness simply get the audience’s attention, while the information actually sells the product?

A famous study of advertising and eyeglasses showed that in states that permitted opticians to advertise, eyeglasses sold at prices about 25 to 30 percent lower than in states that prohibited advertising.19

Do people fall for mere sparkle? American marketing history is filled with failures named Edsel, Ishtar, and Premier, the “smokeless cigarette.” Corporate marketing departments struggle to keep up with the fancies of the American public, much less lead them. The Wall Street Journal reported that sneaker manufacturers test-market their goods in inner cities, because urban youth often ignite cultural fads. In 1986, a sneaker called British Knights, or BK’s, leaped into prominence. Sales soared until, for no apparent reason, local street gangs dubbed them “Brother Killers,” at which point sales plummeted.20

Even if a splashy commercial convinces a consumer to buy, for example, a particular brand of shampoo, will the consumer buy a second time if she finds the shampoo makes her hair brittle? Most television and periodical advertisements display products that survive on repeat buyers, customer loyalty, and so on. The goods are not “one-shot” profit-makers. The producers cannot afford to sell just one time and leave their customers bald or otherwise unsatisfied. On the other hand, ads for “big-ticket” goods such as automobiles scream out for the consumer to test-drive the product. Only the dimmest wit in the world buys a Pontiac from the television screen.

These points do not defend dishonest advertising or deny its existence. But most advertisers are not “fly-by-night” outfits eager to cheat for a fast buck. Galbraith himself has written that firms concentrate more on market share than on quick profits. Lousy products lose market shares fast.

Many people are, like Galbraith, uncomfortable with the choices modern capitalism gives modern consumers. Many are psychologically uneasy that they have such a wide range of choice. With choice comes responsibility for the selection one makes, and existential angst. Do we choose Crest, Aqua-Fresh, Close-Up, Ultra Brite, Colgate, or Gleem? We can try to blame the advertisers for our ultimate choice. Of course, toothpaste is trivial. Let’s consider the more important principle involved. If Galbraith is right, can people take credit for momentous issues, for choosing Churchill over Goebbels, or the NAACP over the KKK? The Galbraith critique superficially concerns advertising. More important, it concerns what man really is. Are we any more free than Pavlov’s dogs? If we are not, Galbraith is right, and neoclassical economics fails.

Galbraith happily aligns himself with Thorstein Veblen. He shares many traits, including a sardonic view of modern culture and capitalism. But he shares another trait, vagueness. Neither develops a paradigm or method that economists can carefully test or even emulate.
The institutionalists seem content to criticize and to observe. Their work is carried on today in the American Journal of Economics and Sociology and the Journal of Post Keynesian Economics. Contributors to the latter are also greatly influenced by the Italian economist Piero Sraffa, the Polish Marxist Michal Kalecki, and the late Cambridge economist Joan Robinson’s work on “imperfect competition.”

**New Institutionalists and the Economics of Law**

In his lifetime, John Kenneth Galbraith saw the height of the old institutionalists and the rise of the new institutionalists. He surely liked the old folks better. They criticized free market economics for ignoring institutions, and blasted free market economists for leaning blindly on Marshallian assumptions about human behavior.

The new, renegade institutionalists reverse nearly everything that Veblen and Galbraith set out to do. They don’t announce that institutions belie Marshallian economics. Instead, they wield Marshallian scalpels and scissors with which to dissect institutions. They are not a carefully delineated group. Most are economists, some are lawyers with economic training. They are united by curiosity about social institutions and confidence in neoclassical economics.

The new institutional approach has invaded the world of law. Although antitrust law always involved economics, economists have forced lawyers and judges to examine nearly all legal decisions through the eyes of Alfred Marshall and his followers. No area of law can hide from economic analysis, and no law professor today can teach competently without some economic training. Law journals and court judgments bulge with discussions of marginal benefits and marginal costs. The discussions are not just academic. Several prominent experts in law and economics sit on federal courts, influencing the lives of millions of people. No one can hide from economists. Even jailbirds must worry that some graduate student will perform an economic analysis of jail cells, perhaps proving that a particular diet of bread and water optimizes rehabilitation rates.

In 1915 Louis Brandeis wrote that a “lawyer who has not studied economics . . . is very apt to become a public enemy.” Unfortunately, the United States produces thousands of public enemies each year.

Let us explore four very important areas in which economists have dramatically transformed traditional legal analysis: negligence law; property law; criminal law; and corporate finance.

**Negligence**

Most accidents fall under the category of negligence law, also known as tort law. Every time someone slips on a banana peel left on the supermarket floor, a lawyer hopes for a
lawsuit on the grounds of negligence. “The supermarket shouldn’t have left the peel on the floor,” a tweedy litigator will argue. He will probably win.

Should a person or business be held liable for every accident on its premises? Try another example. A storm shipwrecks Gilligan, the skipper, and the passengers of the S.S. Minnow on a palmy isle. Only two people live on the island. But they share the island with 200 monkeys. The 202 inhabitants produce banana liqueur for export. The monkeys peel and squeeze the bananas. In the process, they hurl the peels across the island. Suppose Gilligan wanders around the island and slips on a banana peel. Is the banana business negligent? Most courts would say no.

What are the key differences between the supermarket and the deserted island? First, the probability of a human walking down the fruit aisle of the market is high, whereas the chance of a shipwrecked person wandering around the island is small. Second, the cost of supervising the supermarket is low, whereas the cost of monitoring monkeys on an island is high.

Using these concepts, Judge Learned Hand established a brilliant economic analysis of negligence law in a 1947 case. Hand identified three key factors: the probability of injury (P); the extent of injury or loss (L); and the cost of preventing the accident (C). According to Hand, a person is negligent if the probable injury to the victim exceeds the cost of avoiding the accident. Thus in algebraic terms, a defendant is negligent if \( P \times L > C \).

In the supermarket, the probability of someone slipping on a banana peel left on the floor is high, let’s say 20 percent. The injury is severe, let’s say $20,000 in medical bills, lost wages, and inconvenience. Thus \( P \times L = $4,000 \). If the supermarket could have prevented the accident for under $4,000, it was negligent. A $3.00 broom in the hands of a stock boy would have done the trick.

On the balmy and palmy isle, the probability of a shipwrecked wanderer slipping on the banana peel is very low, perhaps 1 percent. Even if the injury causes $20,000 damage, the probable loss or expected loss is only $200 (.01 \times 20,000 = 200). The liqueur producers would be negligent only if they could have prevented the accident for under $200. Of course, they could have prevented the accident by placing fences, signs, and security cameras all around the island. But this would be expensive. Further, the monkeys might have injured themselves on the fences. According to Hand, producers should not waste money protecting against an accident highly unlikely to occur. If a judge declared them negligent, he would encourage them to waste valuable resources.

To maximize social welfare, courts should encourage people to spend money on safety only as long as the marginal benefit surpasses the marginal cost. Thus Hand’s formula brings Marshallian logic to the law.

We could try to avoid all accidents. We could wrap ourselves in foam rubber and never leave our homes or turn on an oven. But most of us agree to take some risks. Hand helps us
to know when the risks are foolishly high or trivially small. In the fifty years following Hand’s opinion, lawyers and economists have improved his original formula. Nonetheless, the original formula still correctly conveys the flavor of modern negligence law.

Property

Over the past few decades, law and economics scholars have forced judges to recognize the effects of their legal decisions on real property. Judges who ignore economics sometimes command people to take actions that result in precisely the opposite of the judges’ intentions. Let’s look at two examples in which scholars have compelled lawyers, judges, and legislators to rethink their analyses: Coase’s Theorem and rent control.

In 1960, Professor Ronald Coase of the University of Chicago presented a powerful tool for economic analysis. In short, Coase showed that the initial assignment of a property right may not determine how the property is ultimately used. Let’s apply Coase’s Theorem to nuisance law. Assume that Frank Sinatra owns a nightclub. Sleepy Simon lives next door. Whenever Sinatra belts out a high note, it rattles Simon’s teeth and jars him from his bed. Simon brings Sinatra to court, claiming that he has a right to snooze soundly. Sinatra claims a right to hit the high notes. The judge sides with Simon and closes down Sinatra’s saloon. According to Coase, the story is not over. Coase’s Theorem predicts that Sinatra will sing again if he values his saloon more than Simon values sleep. If Sinatra values his saloon at $1 million and Simon values his sleep at $100,000, Sinatra may bribe Simon into withdrawing his complaint. If Sinatra offers more than $100,000, Simon would accept. With $100,000, Simon could install soundproof walls or buy fancy ear plugs. Coase’s Theorem states that once a property right is clearly defined, the property will be put to its most valued use. Once the judge clearly assigns to Simon the right to sound sleep, Sinatra can buy that right or bribe Simon into giving up his sleep or moving elsewhere. Even if the judge gives Simon the right to silence Sinatra, Sinatra may sing again, if he treasures the right to hit high notes.

So, Sinatra and Simon will settle at a price between $100,000 and $1 million. (If Simon insists on receiving more than $1 million, Sinatra will not pay and will not sing. If Sinatra offers less than $100,000, Simon will turn it down.)

What if the judge had ruled for Sinatra and decided that he had a right to hit the high notes, regardless of his neighbor’s sleep? Is it possible that Sinatra would not sing even though he had won the case? Yes. If Simon valued his sleep more than Sinatra valued his singing, Simon might buy Sinatra’s silence. According to Coase, then, the judge’s initial assignment does not determine what ultimately takes place. It determines only who might buy and who might sell. While adoring fans may pay Sinatra to sing, his neighbors may pay him not to.

Coase applies this same analysis to polluters. After all, a soaring human voice may be considered by some as just another form of pollution. A factory that releases smoke may irritate its neighbors. But if the factory values its right to pollute more than its neighbors...
value the right to clean air, or if the factory is willing to pay the neighbors to move to another location, the factory may continue to pollute. The upshot: judges act foolishly if they assume that by assigning a right, they determine what will finally take place.

Sometimes it is impossible to know in advance whether a neighbor’s behavior will be a positive or negative “externality.” With great fanfare, in 2003, Los Angeles unveiled the swooping, stainless steel Walt Disney Concert Hall, designed by the renowned Frank Gehry. At first, neighboring residents assumed that this $274 million marvel would boost their property values. Then the sun came out, and Gehry’s stainless steel reflected laserlike rays into apartments, propelling interior temperatures, baking sidewalks to 140 degrees, and burning the skin of pedestrians like ants under a magnifying glass. Employees observed trash bins combusting and traffic cones melting. Concert hall officials have sandblasted the gleaming exterior, trying to turn their negative externality into a positive again.

Like Learned Hand’s negligence theory, Coase’s Theorem has been attacked and refined. The prime point of attack is the assumption that people can bribe each other without large transaction costs. Especially in pollution cases where large numbers of homes are affected, it’s unlikely that families can organize efficiently in order to bargain with the polluter. Despite these complications, though, Coase’s Theorem appears to be a brilliant and innovative insight into the way legal decisions may actually affect individuals.

Economists have carefully analyzed another real property issue, municipal rent control laws. Legislators who know how to get votes but not how to govern prudently frequently pass economically preverse regulations. In the 1970s officials possessed by a utopian vision promoted rent control laws, aimed at providing affordable housing by restricting the landlord’s ability to raise prices. Some would call this a noble goal but a lousy policy.

Quite simply, rent-control laws nearly always create a shortage of housing. At low prices, people demand housing. But the laws convince landlords to constrict supply. At first, you may think that landlords have no choice once they construct a building. In fact, landlords can reduce supply. They can skimp on maintenance and repair. Or they can convert the rental units into condominiums, cooperatives, convalescent homes, or commercial office space. A wrecking ball cares little for history or sunk costs. One econometric study of U.S. cities estimated the long-run price elasticity of supply at .20, which means that if the government forces rents down by 10 percent, landlords will take 2 percent of the rental units off the market.24 In the long run, landlords do alter the number of units in response to price changes.

In 1979 Santa Monica, California, adopted the toughest rent control laws in the United States. The laws prevent landlords from cutting back supply by forcing them to pay for a new rental unit for each one converted or destroyed. As a result property values act perversely. An empty lot may sell for $600,000, whereas an apartment building on an equal-size adjoining lot commands $200,000 less.
No surprise that Forbes magazine reported that [a]bandoned small apartment buildings sit forlornly next to homes costing $500,000 or more. Run-down rental units share streets with chic merchants selling everything from high-fashion clothing to automobiles for the rich and famous.25

Even if landlords do not cut supply, they may furtively raise rents, by demanding bribes or “fixture fees” especially from new tenants. “The apartment costs $400 per month. But the window shades, which you must buy, cost $10,000,” says the landlord.

Does anyone gain from rent control? In the short run, two groups profit. First, politicians, who sound like heroes slaying the evil landlords. Second, tenants who already occupy units at the time rent control is invoked and thus continue to enjoy bargain rents. As a result, these tenants seldom move. This reduces mobility and freezes out new residents of the city. As a result of rent control laws enacted in 1980, a high percentage of University of California, Berkeley, students commute to classes from neighboring towns. (A state law passed in 1995 relaxed some of the local ordinances.) New York City boasts many large apartments occupied by older couples who once shared the apartments with their children. Instead of moving to smaller apartments when the children moved out, they stayed. So a large family moving to the city has not a prayer. Most people know that the way to find an apartment in Manhattan is through the obituary pages, not the real estate pages.

Ultimately, rent controls tend to depreciate the housing stock, as maintenance falls and supply diminishes. Usually, such controls are a poor way of helping the poor—and a good way of destroying a city.

Crime

So far we have seen how economists examine tort and property law. But no area of law is untouched by rapacious economists. Economist Gary Becker has applied Marshallian economics to family law and to criminal law. The issues are fascinating. Becker’s crime model posits criminals who apparently weigh the costs and benefits of committing offenses. If we have a crime problem, Becker implies, it’s because crime does pay. Economists have tried to calculate what deters criminals. Two variables seem most important: (1) apprehension rates and (2) severity of punishment. The deterrent effect differs for different types of crimes. For some crimes, police should concentrate on catching the criminals. For other crimes, apprehension rates do not scare offenders. Instead they are frightened and deterred by severe punishments.26 The Beckerian analysis has not been unanimously adopted. Many statistics contradict each other. Nonetheless, it ranks higher than Evelyn Waugh’s silly theory that almost “all crime is due to the repressed desire for aesthetic expression.”
Criminals often figure that crime pays because they care little about the future. They are willing to dodge bullets, flee police, and pocket a quick payoff, rather than make an investment in the future (school, job training). Criminologists and economists who study crime have not focused enough on time horizons. In an economic model I developed back in the 1980s, I concluded that when time horizons shrink, the value of acting honestly diminishes, leading to economic collapse.\textsuperscript{22} With due respect to one’s Sunday school teacher, honesty is not always the best policy, if your goal is to get rich with the least amount of effort. Two forces normally dissuade even amoral egotists from cheating or stealing, especially in business. First, the fear of punishment. Second, the fear that a bad reputation will repel others from dealing with you in the future. But what if you do not care about the future? Crime goes up. (The same dynamic explains why tourists passing through tend to tip waitresses less than regular restaurant patrons.) Sometimes society shrinks the time horizon, making crime look more inviting to more people. How? When governments are about to collapse, for example, South Vietnam in 1975, Indonesia in 1998, or Iraq after 2002.

Another way for society to shrink time horizons is to let interest rates rise. Higher interest rates force us to discount the future more. That is, a dollar next year is worth less today if interest rates go up. The “Buchholz Hypothesis” suggests that higher interest rates induce people to commit more crime because it reduces the value of their future. During the Great Depression, nominal interest rates dropped, which could solve the mystery of why crime rates actually descended amid economic misery. From the 1960s through the 1970s, interest rates began a steady climb, accompanied by higher crime rates. Violent crime peaked around 1980, as did interest rates, only to climb again in the late 1980s. In the 1990s, we enjoyed a rapid drop in interest rates that tracked the plunge in violent crime, with both the crime rate and U.S. Treasury yields plunging to thirty-year lows.

Surely interest rates are not the only factor. Demographics, police work, and punishment rates play a huge role. But when society tells potential felons that tomorrow counts for less, we should not be shocked when they take advantage of today.

Economists who examine the criminal narcotics trade criticize misguided government policies that fail to solve the dreaded problem. During the last twenty years, the federal government has tried to curtail the supply of drugs by destroying crops and sealing the U.S. borders. Although the Drug Enforcement Administration seizes tons of narcotics each year, for several reasons this supply-side focus does little good.

First, drugs such as cocaine are derived from plants that grow easily in many parts of the world. There are just too many fertile fields to burn or monitor. Second, because the street value of cocaine, for example, exceeds the import price by tenfold, boosting the price at Miami docks would add very little to the price on Chicago streets. Third, even if interdiction or burning fields did raise the street price, regular cocaine users do not care much about cost. In Marshallian terms, addicts have an inelastic demand. And, perversely, higher prices
might spur addicts to mug and rob even more in order to pay for drug habits. (New consumers of narcotics may be more sensitive to higher prices.)

To win the drug war, or at least achieve a truce, the federal and state governments must focus on the demand side. That means severely penalizing drug users. They may be insensitive to price; but they may be more sensitive to jail time. Of course, better counseling and treatment should also be available. These measures should be accompanied by harassing and punishing street vendors. Until Americans give up a desire to use drugs, the war against drugs cannot be won in fields south of the border, or docks on the southern border. It can only be won in the streets of American towns and cities.

No one denies that economists have enriched legal scholarship. Critics do ask, however, if lawyers mesmerized by economics have gone too far. After all, the law should aim for justice. Does efficiency equal justice? Should we repeal inefficient laws, even though they are just? What if whipping prisoners was efficient? Defenders retort in two ways. Extremists actually argue that justice equals efficiency, which recalls the pre-nervous breakdown Mill. The early editions of Richard Posner’s treatise Economic Analysis of Law claimed that efficiency is “perhaps the most common” meaning of justice. “We shall see that when people describe as ‘unjust’ convicting a person without a trial, taking property without just compensation . . . they can be interpreted as meaning nothing more pretentious than that the conduct in question wastes resources.” This rather dim observation by a brilliant man has been lightened up, however, in the third edition of the treatise, where Posner admits “There is more to justice than economics.”

The more reasonable retort has two parts. First, in many legal decisions, especially involving business law, judges do strive for efficiency. The law and economics school can help them. In past decades, judges tried to act efficiently, but ignorance clouded their sight. Second, in cases where issues of justice arise, a moral judicial system should at least know the likely consequences of its decisions. From a moral point of view, we should distinguish between just actions and just actors. A just man is one who chooses correctly after contemplation. A laboratory rat can choose the right action, but that action is not just unless it has been contemplated. A judge who simply ignores consequences is no more just than a laboratory rat. Even if a judge refuses to enforce an efficient result, he should know that he is ignoring efficiency. Lest we reach clouds too lofty, let us put aside this tangential argument with Posner and Kant and move on to an interesting development in corporate finance.

**Corporate Finance**

The law and economics scholars contrast with the old institutionalists because the new people use Marshallian tools to investigate institutions. In one narrow area, however, the old and new sound alike. In 1932 Adolph Berle and Gardiner Means, a law professor and economist, respectively, at Columbia proclaimed a mortal split between owners and
managers of firms. Since the owners (including stockholders) no longer run the firm but delegate authority to paid managers, firms no longer act efficiently. Galbraith later insisted that managers would pursue their own goals such as enhancing their own prestige by increasing the size of the firm.

Though denying the dire effects, new institutionalists admit that owners must monitor their managers. To monitor costs money, sometimes called “agency costs.”

To lower agency costs, owners often give managers incentives to raise profits. Most senior corporate officials receive part of their compensation in the form of stock. If they raise profits, the stock will rise, and they will earn more. In addition, executives frequently receive “stock appreciation rights,” where the company pays a cash bonus if the stock price climbs. More and more companies are also promising stock incentives to nonexecutive employees. The corporate scandals that took place in the late 1990s at Enron, Tyco, and Fannie Mae did show, however, that shady executives may manipulate stock incentives by backdating options or artificially propping up share prices for short-term gain, with little regard to the firm’s long-term health. There is much room for fine-tuning the incentives that shareholders give management. Stock options, crooked executives, and lazy boards can be a treacherous trio for shareholders to face.

Even stronger incentives arose in the 1980s with the increasing popularity of leveraged buyouts (LBOs). In many leveraged buyouts, the managers borrow money, buy up all the stock, and take over the ownership for themselves. The new debt pressures them into trimming costs and selling off less productive assets. Vice presidents hand in their keys to corporate jets. Thus, the mortal split is mended. Agency costs plummet because the managers have an extremely large stake in the company’s performance. Hertz, Levi Strauss, and Black Entertainment Television were all “taken private.” Leveraged buyouts do have their critics. Although stockholders who sell their shares to the managers usually receive substantial premiums over the pre-LBO market price, critics question whether the buyout price is determined in a fair manner. Maybe the managers have inside information that they haven’t divulged, which should make the price even higher. Furthermore, critics point out that the mammoth debt burden can dramatically increase the risk of bankruptcy if the economy falters. While this is true, new creditors of these companies are generally sophisticated insurance companies and institutions that carefully examine risks.

Many plays and films are now financed so that producers pay stars and directors a percentage of the gross proceeds only after costs are paid. Thus, everyone has an incentive to reduce costs. No one has an incentive to squander and splurge on lavish extras. Hollywood financiers call these “contingent deferments.”

In corporate finance, the old institutionalists pointed to a problem. Fifty years later the new institutionalists pointed to solutions.
Almost every institution and social phenomenon has economic implications. According to a 1988 study, the historical treatment of prisoners of war closely correlates with the costs and benefits of killing or sparing a vanquished adversary. The Middle Ages, the authors conclude, were not always horrible for prisoners of war, since captors often treated captives well enough to command high ransom prices. The bad news for prisoners of war seized during the Middle Ages: if demand for them or for their labor fell, heads would roll.

Even the existence of time has economic implications. How would people behave if they knew that the world would end tomorrow? How would they behave if a new legal system, a system that would not enforce contracts or punish criminals, was going to be imposed next week?

People act civilly toward one another for many reasons. One reason is that they want reputations for being trustworthy. This is especially important in business. But if time is short and reputations in the coming regime will not be based on present behavior, some people might renege on promises and take advantage of others. A healthy market economy demands a certain level of civility and sanctity of promises. A society that perceives no future would see economic collapse.

There is clearly more to economics than prices, profits, rents, and costs. Laws, morals, fashions, and philosophies all contribute to an economy. They may support it, or they may tear it down. Veblen and Galbraith expanded the definition of economics and forced colleagues to open their eyes to broader phenomena. Economics is not as easy as Marshall made it look.

The new institutionalists admit that economics isn’t easy. But they show how robust Marshall’s tools are. For they use his methods to understand the complex institutions that help mold the economy.

Brandeis warned that lawyers ignorant of economics menace society. What is the legacy of the old and the new institutionalists? They finally explained that economics is as big as society itself.
CHAPTER IX

Keynes: Bon Vivant as Savior

Cambridge is perhaps the most beautiful university in the world. Every year hundreds of thousands of tourists meander through medieval courts, punt on the river Cam, and snap photographs, as students play cricket and croquet on lush lawns. Sometimes the students put down their cricket bats to play practical jokes on the visitors. A few years ago, some merry sons of Cambridge painted a papier-mâché ball to look like a heavy cement ornament found on one of the many bridges spanning the Cam. As a boat filled with Japanese tourists streamed by, the boys pushed the ball off the bridge and screamed. The tourists shrieked and leaped overboard—cameras in hands. Aside from terrorized tourists, Cambridge can be idyllic. Fellows and students donning gowns still stroll into sixteenth-century halls to dine beneath portraits of Henry VIII, Elizabeth I, and alumni such as Newton, Darwin, and Wordsworth.

Here it was that Cockcroft ran through the streets hugging passersby and shouting, “We’ve split the atom! We’ve split the atom!” Here it was that Watson and Crick revealed the secret of life in their DNA model.

No one embodied the Cambridge spirit of culture, fun, and public duty so much as Maynard Keynes. No one was more brilliant or charming. No economist in this century influenced politicians or the course of economics more. Bertrand Russell, one of Britain’s most distinguished philosophers, announced that Keynes had “the sharpest and clearest intellect he had ever known. “When I argued with him, I felt that I took my life in my hands, and I seldom emerged without feeling something of a fool.” One feels sorry for Charles Rye Fay, a classmate of Keynes. The first freshman Fay met upon arriving at Cambridge was Keynes, and poor Fay thought that all his classmates would be just as superior to him. He later reflected that the first person he met at college turned out to be the smartest he would meet during his entire life. Incidentally, Keynes was smart enough to know that he was smart. Few accused him of modesty. In fact, Keynes did not return Fay’s admiration, later writing that his friend was unfit as a traveling companion because: “He is too ugly. Ugliness of face, hands, body, clothes and manners are not, I find, completely overbalanced by cheerfulness, a good heart, and an average intelligence.”

Despite his origins in the secluded paradise of Cambridge, Keynes and his ideas ranged throughout the world. If Ronald Reagan wore an Adam Smith necktie, every president from Franklin D. Roosevelt to Richard Nixon could have slipped on a Keynes cravat, especially Kennedy and Johnson. Ironically, after Nixon announced, “We are all Keynesians now,” Keynes’ influence began to wane. Milton Friedman, the fiercest critic of Keynesian economics, admitted that “in one sense, we are all Keynesians now; in another, no one is a Keynesian any longer.”
What does it mean to be a Keynesian? Two basic propositions will suffice here: (1) the private economy may not reach full employment; (2) government spending can spur the economy into filling the gap. Every time a politician ardently advocates priming the pump, government programs to get the country moving again, or slashing taxes to boost consumption, he exalts Keynes.

Keynes was not solely concerned with employment, though. His Collected Writings number over two dozen volumes and span many subjects, including currency questions, trade restrictions, rebuilding after the world wars, and graceful essays on such figures as Einstein and Newton. The distinguished Oxford historian Hugh Trevor-Roper names Keynes among the major contributors to historical method.

**Escape from Victorianism**

Keynes was born in 1883 into a Puritanical Victorian home. John Neville Keynes, his father, was a well-known logician, economist, and Cambridge University registrar, while his charming mother, Florence Ada, later served as mayor of Cambridge. Although Keynes was fond of his parents, he spent much of his life escaping from their moral and philosophical influences. Keynes liked to have fun and cared little for the Puritan attitudes embodied in Sir James Stephen, grandfather of his friend Virginia Woolf, who reputedly once smoked a cigar and found it so pleasurable that he never smoked again. Still, Keynes felt quite comfortable as a member of the high intellectual bourgeoisie. In a pun on the British expression “wet” (meaning weak political devotion), Lenin referred to him as a “bourgeois of the highest water,” while Keynes joked that when the communist revolution came, he would be found beside the bourgeois banner.

At Eton, he amassed numerous prizes for mathematics, performed well in the theater, and humbly on the cricket pitch. Entering King’s College, Cambridge, he flourished even more boldly. More important, he developed friendships and liaisons, both intellectual and physical, with other highbrows and was invited to join the university’s most select and secretive society, the Apostles. The society included eminent older members, or “angels,” such as Russell, G. E. Moore, and Alfred North Whitehead, as well as Keynes’ peers, many of whom would later achieve fame in literature and the arts, such as Lytton Strachey, E. M. Forster, and Leonard Woolf. Generally, the Apostles discussed three topics: philosophy, aesthetics, and themselves. Not that they were particularly pleasing aesthetically. Most, including Keynes, lacked what Virginia Woolf called “physical splendour.” The most blistering commentary on Keynes’ looks comes from an assistant master at Eton, who described him as “distinctly ugly at first sight, with lips projecting and seeming to push up the well-formed nose and strong brows in slightly simian fashion.”

Friends at Eton had called him “Snout.” Though Keynes grew into his pseudo-simian face, he remained convinced of his ugliness.
The Apostles also bred an ugly arrogance. Not only did they consider themselves far superior to the masses, they thought they soared above all of Cambridge and Oxford. “I get the feeling that most of the rest never see anything at all—too stupid or too wicked,” Keynes wrote to Strachey.\(^5\) Still, no one can deny that the Apostles were a formidable group who often engaged in sparkling conversation. Here, as well as in the Cambridge Union Society, Keynes learned to be the consummate debater and raconteur who later surpassed colleagues, competitors, and politicians in seminars and summits.

Many of the Apostles, including Keynes, later emerged as the Bloomsbury Group, whose anti-Victorian, bohemian attitudes powerfully affected the development of British culture. In addition to his achievements in economics, Keynes would spend almost as much time collecting books, founding the Cambridge Arts Theatre, and serving as Trustee for the National Gallery, a buyer for the Contemporary Arts Society, and Chairman of the Trustees of the Royal Opera House. In today’s more specialized academic world, one might seriously ask whether Keynes would choose economics, given his dilettantism.

Keynes did not come to Cambridge to study economics but mathematics. Though he performed satisfactorily, he struggled. “I am saddening my brain, destroying my intellect, souring my disposition,” he wrote to a friend.\(^5\) After passing his mathematics exam, he read his first economics book, Marshall’s Principles of Economics. Keynes began writing papers for Marshall, who scribbled encouraging words in the margins. In the greatest understatement since Smith started writing a book to “pass away the time,” Keynes wrote about economics: “I think I am rather good at it.” He added, “I want to manage a railway or organize a Trust or at least swindle the investing public.” A few days later he reported that “Marshall is continually pesterling me to turn professional Economist. . . . Do you think there is anything in it? I doubt it.”\(^7\)

Keynes’ studies with Marshall lasted only eight weeks. Nor did he take a degree in economics. He proved rather good at on-the-job training, however.

In 1905 Keynes began studying hard for the Civil Service Examination. As he reviewed mathematics, philosophy, psychology, et al., his prejudices again emerged. After reading a book by a non-Cambridge philosopher, he lamented, “What a home of diseased thought Oxford is.” Keynes came in second of 104 candidates. Ironically, economics and mathematics were his worst subjects! “Real knowledge seems an absolute bar to success,” he reported. About economics, Keynes decided that the examiners did not know enough. He would teach them.\(^8\)

In 1906 Keynes moved behind a desk at the India Office in London, but he never made it to India. His first task was to ship ten young bulls to Bombay. Keynes quickly became bored silly, or more accurately, bored flippant, reporting to Strachey that he was working on the annual report on the Moral and Material Progress of India and planned a “special feature” in “this year’s edition . . . an illustrated appendix on Sodomy.”\(^2\)
Keynes returned to King’s College, Cambridge, repelled by tedium and attracted by Marshall’s offer of a lectureship. As an economics teacher, Keynes leaned on one of the few texts he had actually read, Marshall’s. In the early years his economics did not venture far beyond Marshall and the classical tradition. As he read more, though, his reputation for insight and lucidity grew, resulting in an appointment as coeditor of the influential Economic Journal. Keynes held this post until 1945 and established a sterling reputation for careful editing and good humor. Once he told a foreign contributor that while exempli gratia may be abbreviated e.g., he could not abbreviate for instance as f.i. Two years later, in 1913, he published Indian Currency and Finance, one of the few fruits of his India office years. Joseph Schumpeter called it the “best English work on the gold exchange standard.” Of course, Schumpeter, who sometimes seemed envious of Keynes, may have been insulting English economists as much as complimenting the book.

**War and a Dangerous Peace**

World War I brought Keynes back to government in the Treasury Department. The war posed a test to the Bloomsbury Group and their aloof, iconoclastic, and apatriotic persuasions. Almost all of the male members, including Keynes, claimed exemption from military service as conscientious objectors. As usual, Lytton Strachey injected humor into the serious matter. Though he stated that all physically fit intellectuals should be prepared to defend the shores of England, he added one proviso: no intellectuals are physically fit. Sometime later, Strachey made his proudest contribution to the war effort: he knitted a navy blue wool scarf for the neck of a sailor he desired. Finally, when Strachey was haled before the war tribunal to test his conscientious objector status, officials asked the classic question: What would you do if you saw a German officer attempting to rape your sister? Strachey paused. “I would attempt to interpose my body between them,” he said, winking.

After the war, Keynes represented the Treasury at the Versailles Conference. Again he grew disgusted with government, but not because of boredom. Keynes witnessed Woodrow Wilson being bamboozled by British Prime Minister Lloyd George and the Frenchman Clemenceau into squeezing a defeated Germany beyond reason and beyond her ability to rebound, except in frightening belligerency. Keynes came close to predicting another world war. Unable to endure the diplomatic nightmare he was watching, he resigned and quickly penned one of the most acid polemics of his time, judged even by Bloomsbury standards, the *Economic Consequences of the Peace*. Along with searing portraits of the world’s leaders, Keynes carefully argued that Germany could not afford the reparations demanded of her. Book sales soared, breaking records in England and the United States, and so did Keynes’ reputation and ego. In a parodic poem, one magazine commented on “The Candour of Keynes”: “Still we feel . . . That possibly some of the Ultimate Things/May even be hidden from Fellows of King’s.”
Not much was hidden from Keynes. In the next decade he continued to teach, edit, write, advise governments, and serve as chairman of a life insurance company. He corresponded with the most prominent politicians, academics, and artists of his time. In 1925, he married Lydia Lopokova, a Russian ballerina. Luck and a good measure of skill aided Keynes as he earned a fortune trading commodities and stocks. Some critics challenge economists to “put up or shut up”—that is, if they know about money, why aren’t they rich? If economists were judged by this test, Keynes would rank second only to David Ricardo. Too many economists tie for last place to mention any others.

**The Great Depression and the Fall of Classical Economics**

In economics, Keynes focused mostly on monetary policy, writing his Tract on Monetary Reform in 1923, followed by a two-volume Treatise on Money in 1930. The Treatise tied together much of Keynes’ earlier work on investment with new insights on the connection between savings and investment. But despite the comprehensive nature of the treatise, 1930 brought challenges to economics so perplexing that he could no longer rest on his published work and enchanting charm. Though Keynes’ luck seemed never to run dry, the world’s luck did, and nations were awash in the debt and despair of the Great Depression.

Recall the scary Malthusian scenario, with the world seemingly splitting, leaving victims scrambling for survival. Once upon a time not far removed and in a place familiar to us, it nearly happened. From 1929 to 1933 in the United States, the invisible hand of the free market slapped prosperity in the face. Unemployment rocketed from about 3 to 25 percent, and national income plummeted by half. Residential construction stopped. Many lost their homes and businesses. The Stock Market crash of 1929, with brokers jumping to their deaths, became both symbol and cause of further economic decline. The roaring twenties sputtered to a halt, leaving income in 1933 lower than that of 1922. Workers scrambled for the few jobs available. Soup kitchens sprang up. And psychological depression accompanied economic depression.

The popular song lyricist Yip Harburg, who later promised a brighter place for Judy Garland in the song “Over the Rainbow,” echoed the frustration and despondency of the Depression in his classic “Brother, Can You Spare a Dime?” The song chronicled the generations who had labored to help carve a prosperous civilization from the American wilderness. Yet now, the singer who helped build a railroad that raced “against time” has no job. Can one beg with pride and dignity? Yes. For he had not lost his job because of any personal failure. An economy run awry had robbed him.

Economic historians have long debated the “cause” of the Great Depression, but there is no simple answer. The more important question is, what transformed a recession into a nightmare? The United States had lived through dips and drops before, but never so severe. Most economists stress a coincidence of bad events: investment opportunities dried up after accelerating in the 1920s; consumers decided to decrease spending and repay loans;
nations panicked into protectionism; and the Federal Reserve system responded with
tighter, not looser policies.¹³

When Ronald Reagan battled President Carter in 1980, he wittily defined some economic
terms: “Recession is when your neighbor loses his job. Depression is when you lose your job.
Recovery is when Jimmy Carter loses his job.”

Maynard Keynes might agree, but with a slight change in the last definition. Recovery
from the Great Depression comes when old fuddy-duddys in the British Treasury (and the
American government) lose their jobs. To Keynes the old men of the Treasury were drunk
on the old wine of the classical economists, which to his taste had turned to vinegar. Keynes
blasted the Treasury view, which prescribed patience and promised recovery in the long
run. What is the point of having such a government? “In the long run we are all dead,” he
wrote in his Tract on Monetary Reform.

Keynes justified the advice he gave to politicians in his 1936 masterpiece, The General
Theory of Employment, Interest and Money, which smashes the Treasury view and presents
a new framework for macroeconomic analysis. As Keynes predicted in the Preface,
conventional economists would fluctuate “between a belief that I am quite wrong and a
belief that I am saying nothing new.” Paul Samuelson, whose introductory economics text
has taught Keynesian economics to generations, cleverly summed up the ambiguity of the
General Theory: “It is a badly written book, poorly organized; any layman who, beguiled by
the author’s previous reputation, bought the book was cheated of his five shillings. . . . It is
arrogant, bad tempered, polemical and not overly generous in its acknowledgments. It
abounds in mares’ nests and confusions. . . . In short, it is a work of genius.”¹⁴

Keynes begins by mercilessly attacking his predecessors and Cambridge colleagues
(especially A. C. Pigou) sometimes directly, sometimes through caricatures. During the
prosperous years before the Depression, Pigou used to confidently say, “It is all in Marshall,”
as if few questions in economics remained to be solved. Unlike Keynes, Pigou disliked
discussions of economic controversies once he had put down the chalk and left the
classroom. Keynes’ friend the brilliant Cambridge philosopher Ludwig Wittgenstein was
even less accessible. After class he ran off to movies, preferably those starring Car-men
Miranda, who was famous for dancing with tropical fruit on her head and singing the
“Chiquita Banana Song.” Whether Wittgenstein found a deeper meaning in this rite, we do
not know.

Harry Johnson described well Keynes’ sarcastic, terroristic intellectual strikes in the
General Theory: “It posits a nameless horde of faceless orthodox nincompoops, among
whom a few recognizable faces can be discerned, and proceeds to ridicule a travesty of their
published, presumed, or imputed views.”¹⁵ The most nincompoopish belief was in Say’s Law,
which Malthus had attacked a century before. Recall from an earlier chapter that Say’s Law
states that producing goods generates enough income to workers and suppliers for all the
goods to be purchased. Therefore, no general gluts can take place. People have enough
money to buy everything that has been produced. (Of course, a merchant may produce too much of a particular product. But this would not be a general glut. The price would fall to eliminate the particular surplus.) If one believes in Say’s Law, however, one must not believe in long-term unemployment and Great Depressions. Only a schizophrenic could believe in both. And even Keynes would not accuse his colleagues of schizophrenia. He gave them the benefit of the doubt and called them stupid.

The nincompoops ignored an important leak in the smooth cyclical flow from producers to consumers to producers, and so on. What happens when households save? As they build up their bank accounts, won’t merchants find themselves staring at piles of unsold goods? Keynes thought so. The nincompoops had an answer. Was it right? Keynes thought not. He argued against two prime propositions:

1. According to the classicists, households consume part of their income and save the remainder. If consumers decide to save more, demand for goods and services slips, but this is offset because merchants simply invest more. Why would merchants invest more? When people save, they do not usually stuff bills into their mattresses. They put money in the bank. The banks lend the money to merchants. Now, if people bring more savings to the bank, the bank will lower the price it charges borrowers, which is the interest rate. And if the bank lowers the interest rate, merchants will borrow more for investment because more projects will appear profitable compared to the cost of borrowing. Thus, whenever consumers boost their savings and reduce their consumption, merchants will be induced to boost their investment. A flexible interest rate will, in Marshallian splendor, tie investment and savings together. We might say that consumers provide the supply of savings (which rises as interest rates rise, because saving becomes more attractive), while merchants provide a demand for those savings (which falls as interest rates rise).

If a recession seems imminent because people cut back on their purchases and instead raise savings, the model predicts that interest rates will fall, which inspires merchants to spend more on investment, which puts money in people’s pockets and sustains the flow.

2. Flexible wages and prices buttress Say’s law. Suppose that all merchants limp. They cannot walk to the bank as fast as consumers do when the consumers raise their savings. Thus, merchants cannot invest quickly enough to make up for the decreased consumption. A slight recession may result. But wages and prices would fall in response to a fall in demand for goods and services. As wages fell, unemployed workers would be rehired. As prices fell, surplus goods would be sold. The recession would be over quickly.

An art aficionado, Keynes refused to admit that the neat, logical, classical picture belonged to the realism school. It might be vaguely reminiscent of the truth in an impressionistic way. But the world was not so pretty, especially in 1936.

Keynes launched a two-pronged attack on the classical school. First, he denied the automatic link between savings and investment. Households and businesses save and invest
for completely different reasons. A family may save from habit or for a particular purpose such as old age or for an automobile. Businesses may change their investment plans based on politics, confidence, technology, foreign exchange rates, or who wins the World Series. To expect interest rates to bring harmony is silly. If household savings exceed business investment, gluts will emerge, and bosses will fire employees, leading to even less consumption. During 1997 and 1998, Japanese households cut back their spending even though the central bank slashed short-term interest rates to just 0.5 percent. As income falls, savings may drop enough to equal investment, but not necessarily at full employment.

Second, Keynes scoffed at fluid, flexible wages and prices. When politicians prophesy that prices will float to their correct levels, they sound like magicians chanting prophecies that “abra will rise, cadabra will fall.” Monopolies and union contracts surely impede adjustment. During a recession, real wages should fall, according to classical theory. But workers usually refuse to accept lower nominal wages, Keynes thought.

In a recession, Keynes argued, businesses slash investment. Yes, savings eventually equal investment. But why? Not because investment rises (as the classicists say), but because laid-off employees cannot afford to save. Further, because wages and prices take a long time to adjust, prolonged recessions or depressions are possible.

Sure enough, savings did equal investment in the early 1930s. There was none of either. The classical show was over.

**The Keynesian Solution**

It was time for a new show. The spotlight would shine on aggregate demand. The marquee would read: “Depressions Occur When Total Demand for Goods and Services Is Less Than Total Income.” (A large marquee would be needed, but remember that during depressions, vacancies rise.) Through his analysis Keynes warns of inadequate demand for goods and services by households and businesses. If they do not purchase enough, merchants will fire workers and slash output. This is Keynes’ capsule description of a depression.

Let us build the simple Keynesian model step by step, discussing first households and then businesses. Since more products are bought by households, households are the most important component of overall demand. What determines how much households spend? Although family size, tastes, and expectations are significant, Keynes appoints income the chief determinant. If income rises, people will buy more. If income falls, they will buy less. This seems logical. In fact, Keynes assumes that each time a person gets an extra dollar, he will spend most of that dollar and save the rest. Keynes calls the spent part the marginal propensity to consume. Assume a dollar falls from heaven into your pocket. You buy a candy bar for 80 cents, and put the rest in the bank. Your marginal propensity to consume is .80
(algebraically, the change in consumption divided by the change in income). Your marginal propensity to save is .20.

Businesses also buy goods and services. By investing in equipment and inventories, they form the other substantial part of aggregate demand. What does investment depend upon? Keynes thought investment was much more volatile than household consumption. Expectations, interest rates, confidence, weather, and politics could all distort investment plans. In the simplest Keynesian model we assume that so many factors count that businessmen do not change their investment plans in response to short-run changes in incomes. (Recall that households do change their consumption in the short run.)

What does this model mean? To have a healthy economy with full employment, households must consume enough and businesses must invest enough that sales of goods equal the amount produced. If people consumed all of their income (MPC = 1), Say’s Law would produce full employment. But since people save, business investment must make up for the savings. If it does not, output exceeds sales, inventories build, and employers lay off employees. The problem is deficient demand for goods and services. The culprit in a recession is savings.

Several years before the General Theory, Keynes urged citizens to spend more. In a Redbook magazine article, “Can America Spend Its Way into Recovery?” Keynes proclaimed: “Why, obviously!” Few listened. Nor did they hear when he wrote in The Listener:

When anyone cuts down expenditure, whether as an individual or a town council or a Government Department, next morning someone for sure finds that his income has been cut off, and that is not the end of the story. The fellow who wakes up to find that his income is reduced or that he is thrown out of work . . . is compelled in his turn to cut down his expenditure, whether he wants to or not. . . . Once the rot has started, it is most difficult to stop.

Whereas past critics of capitalism eagerly pointed a bony, prosecutorial finger at evil robber barons and sordid profiteers, Keynes calmly claims that well-intentioned savers, including harmless old ladies, inflict more harm than any wicked industrialist.

The harm, or “rot,” compounds itself, though. This is the remarkable Keynesian multiplier (actually borrowed from his colleague Richard Kahn). The point of the multiplier is that any change in spending by one person starts a snowball effect, and the ultimate change in national spending far surpasses the initial change.

Let us say that Maynard, Inc. decides to raise investment by $100 by building a new men’s room. Total spending rises by $100. But Maynard, Inc. has to pay plumbers, architects, and interior decorators. What do they do with the money when they come home from work? They spend some and save the rest. The part they spend may to go grocers, television salesmen, and Girl Scouts for cookies. These recipients now have more income, part of
which they spend. The chain reaction continues. Although the initial injection was only $100, total income may rise by $300. If so, the multiplier is 3.

Keynes provides a simple formula to calculate the multiplier. Since he exalts consumption, it’s not surprising that the key is the marginal propensity to consume:

$$\text{Multiplier} = \frac{1}{1 - \text{MPC}} \text{ or } \frac{1}{\text{MPS}}$$

The higher the degree of consumption, the higher the multiplier. The chain reaction moves more quickly if recipients spend more money. Again, saving slows the process.

Startling conclusions follow. First, small drops in investment, perhaps due to depressing weather or despondent corporate officers, may severely pressure the economy as a whole. If people save one-third of their additional income, the multiplier is 3. Therefore, if business cuts investment by $50 million, national income plummets by $150 million! Business pessimism is a self-fulfilling prophecy! Dreary dreams become suicidal nightmares. No wonder presidents and vice presidents spend so much time cheering. Even Dwight Eisenhower, whose reticence provoked some to call the White House the “tomb of the well-known soldier,” begged the public to buy during the 1958 recession. Buy what? “Anything!” In 1982, Ronald Reagan’s advisers labeled a dip in the economy a “growth recession.” They claimed that the economy slowed while preparing to soar ahead. Critics mocked by calling Reagan’s pet dog a “growth horse.” In the 1991 recession, President George H. W. Bush tried to inspire shoppers by going to a mall and buying socks.

The startling implications of Keynes’ advice are not all bad, though. In fact, some are nearly magical. If deficient demand incites recessions, the antidote must be to arouse more spending. Further, if we know the MPC, we know the multiplier. Therefore, we can inject spending into the economy, which will multiply throughout and cure the recession by filling the original gap between output and sales.

Who is “we”? The government. Nothing prevents the private sector from flowing into dire straits and foundering at sea, while laborers thrown overboard are tempest-tossed. But the national government can either cut taxes or spend money directly to save the ship. If deficient demand brings a recession gap of $12 billion, and the MPC is two-thirds, the multiplier equals 3. Thus, a $4-billion government spending program should spur the economy into closing the gap.17

In fact, Keynes estimated the United States’ multiplier at about 2.5 and advocated massive public spending programs in letters to President Roosevelt as well as in magazines. In a 1933 letter he advised: “a large volume of loan expenditure under government auspices. It is beyond my province to choose particular objects of expenditure. But preference should be given to those which can be made to mature quickly, on a large scale, as, for example . . . railroads. The object is to start the ball rolling.”18
Keynes knew that economists and politicians would attack his activist fiscal policy. British and U.S. Treasury officials cherished a balanced budget, and if the governments followed Keynes, deficits would emerge. So what? responded Keynes. During recessions, balanced budgets are stupid, for there are two sides to a budget: tax revenues and outlays. Since in recessions incomes fall, governments collect less in taxes. If the government is obsessed by a balanced budget, it must either cut spending or raise taxes. But each of these squeezes the economy further by the multiplier process! Over the course of the business cycle, budgets should be balanced, Keynes urged. During prosperity people pay more money in taxes and budget surpluses should result. But during recessions the government should allow deficits. The dunces at the treasuries took a long time to understand this.

Throughout his presidency Ronald Reagan vigorously pressed for a Constitutional amendment requiring a balanced budget, despite $200 billion deficits at the time. Reagan toiled to force spending reductions, not raise taxes. Most economists, remembering Keynes’ advice, objected to the proposal, to the extent the law would have required balanced budgets during downturns. By 1997, though, a public backlash against spendthrift politicians combined with a surging economy produced a balanced budget without a constitutional amendment. (Further discussion of this will come with the Public Choice critique of Keynes.)

Keynes also knew he would face philosophical opposition. After all, more government means less freedom, the laissez-faire tradition taught. But Keynes, who ridiculed Marx and mocked his friends who were fooled by Stalin, thought he was trying to save capitalism, not bury it.

I defend [the enlargement of government] . . . both as the only practicable means of avoiding the destruction of existing economic firms in their entirety and as the condition of the successful functioning of individual initiative. . . . For if effective demand is deficient, not only is the public scandal of wasted resources intolerable, but the individual enterpriser who seeks to bring these resources into action is operating with the odds loaded against him.\(^\text{19}\)

Sometimes it’s important to put principle aside and do what’s right. Keynes often responded wryly to philosophical objections:

If the Treasury were to fill old bottles with banknotes, bury them at suitable depths in disused coalmines which are then filled up to the surface with town rubbish, and leave it to private enterprise on well-tried principles of laissez-faire to dig the notes up again . . . there need be no more unemployment and, with the help of the repercussions, the real income of the community, and its capital wealth also, would probably become a good deal greater than it actually is. It would, indeed, be more sensible to build houses and the like; but if there are political and practical difficulties in the way of this, the above would be better than nothing.\(^\text{20}\)

Although government spending under Roosevelt never reached Keynes’ suggested levels or the worst fears of Keynes’ critics, from the 1936 publication of the General Theory to the
Nixon years, Keynes’ influence grew. Paul Samuelson recalled that the “General Theory caught most economists under the age of 35 with the unexpected virulence of a disease first attacking and decimating an isolated tribe of South Sea islanders. Economists beyond 50 turned out to be quite immune from the ailment.”

Harvard University, under the influence of Professor Alvin Hansen’s popular seminar on Keynes, became the principal American outpost for Keynesians, educating such eminent economists as Samuelson, James Tobin, and Robert Solow. During the Kennedy and Johnson administrations, the Council of Economic Advisors became an outpost for Cambridge, Massachusetts, Keynesians, as well as prominent participants from Yale and the University of Minnesota. These economists, along with European counterparts, developed Keynesian economics, adding rigor where Keynes left intuition and insight.

With Keynesian economics in their grasp, politicians could blaspheme the invisible hand and battle the business cycle. When the economy slowed, they could boost federal spending or cut taxes, leading to temporary deficits until the economy rebounded. If demand rose too quickly, outpacing the supply of goods and therefore pressuring prices upward, they could raise taxes or cut federal spending to rein in demand. A neat symmetry. If it were not apparently true, it would be deemed magic. Confidence in fiscal control grew. Politicians gleefully passed the Employment Act of 1946, which boldly went where no measure had gone before, declaring Congress’ responsibility to “promote maximum employment, production, and purchasing power.”

The Keynesian star shone most brilliantly in 1964, when Kennedy-Johnson advisers perceived a sluggish economy and confidently prescribed a shot of economic Adrenalin. Estimating a recessionary gap of about $30 billion and a multiplier of 2.3, they cut personal and business taxes by about $13 billion. No discretionary economic policy ever worked better. All the vital signs responded vigorously. Higher demand propelled output forward, creating jobs for thousands. It appeared that economics had finally shaken off Carlyle’s insulting tag, “the dismal science.”

In the 1970s, though, when Keynesian policies seemed to falter, Carlyle’s affront haunted and the multiplier hobbled (as the next chapter will show).

Discretionary fiscal policy depends on the wisdom of politicians. Since few sleep soundly while relying on such a scarce resource, the economy has been equipped with automatic tools to dampen the swings in the business cycle. Automatic stabilizers such as progressive taxes and unemployment insurance counteract downturns and inflationary accelerations. If the economy slows down and income begins to fall, people automatically move into lower tax brackets (although since 1987 these brackets are far wider). When workers are laid off, unemployment insurance permits them to maintain spending. When they are rehired, the payments stop. These stabilizers act counter-cyclically, dampening volatility. They thereby stabilize national sleep patterns also.
Maynard Keynes suspected that the volatility of investment would eventually lead to even more government influence over the level of national investment, if not the kind. In murky passages he spoke sometimes of “socialisation” of investment; at other times he praised the structure of the status quo. No wonder he gained a reputation for economic duplicity. In some of his writings, almost every word was ambiguous. His associates told many stories about his rather tidal positions. One joke reported that “when a Royal commission solicits opinions from five economists, they get six answers—two from Mr. Keynes.” If Harry Truman begged for a one-handed economist, he certainly didn’t want Keynes, who was an octopus on policy matters.

But the reputation is somewhat unfair. Keynes probably wrote and spoke more words to more audiences than any other economist. Since situations differ, prescriptions should. Keynes once said that economists should be practically minded, like dentists. How many would rush into the chair of a dentist who always drilled the same tooth regardless of the patient? Whenever dentists slip or slice accidentally, they calmly say the one word that is supposed to heal all oral wounds: “rinse.” There is no “rinse” in macroeconomics (although Schumpeter thought that a recession acted like a good cold shower and ultimately invigorated an economy through new ideas and risks taken by entrepreneurs). When teased about his fickle reputation, Keynes responded, “When my information changes, I alter my conclusions. What do you do, sir?”

Still, fickleness may be a symptom of sloppiness. All economists know that time is a scarce resource. Keynes probably devoted a lower proportion of his time to economic theory than almost anyone else in this book. On the other hand, he probably got the highest return on investment. He often preferred to attend the theater than read another economist’s theoretical work. Given the success of his Cambridge Arts Theatre and the aridity of most academics, we can’t blame him. Apparently, Keynes did not look to economic theory for the same intellectual enrichment and fascination he found in practical applications and in other disciplines. Given these proclivities, he probably sacrificed a more integrated, consistent analytical framework.

As fickle as critics found Keynes, so Keynes found the stock market. Chapter 12 of the General Theory, “The State of Long Term Expectation,” is important for two reasons: first, Keynes explains why the hope of mathematical precision in economics is folly; second, he describes the innate volatility of investment. Keynes stressed that much investment is incited by “animal spirits,” irrational forces impelling entrepreneurs and speculators forward. But these forces are not consistent:

A conventional valuation which is established as the outcome of the mass psychology of a large number of ignorant individuals is liable to change violently as the result of a sudden fluctuation of opinion... the market will be subject to waves of optimistic and pessimistic sentiment, which are unreasoning and yet in a sense legitimate where no solid base exists for a reasonable calculation.
Keynes cleverly speculates that the way to make money in the stock market is not to be the best corporate analyst, but to be the best at guessing what others think is good. With an ingenious metaphor, Keynes likens professional investment to those newspaper competitions in which the competitors have to pick out the six prettiest faces from a hundred photographs, the prize being awarded to the competitor whose choice most nearly corresponds to the average preferences of the competitors as a whole; so each competitor has to pick not those faces which he himself finds prettiest, but those which he thinks likeliest to catch the fancy of the other competitors, all of whom are looking at the problem from the same point of view.  

The passage recalls Woody Allen’s line about cheating on his metaphysics examination by looking into the soul of the student sitting next to him.

From this, Keynes does not deduce reason to despair, just cause for uncustomary modesty in economics:

We should not conclude . . . that everything depends on waves of irrational psychology. On the contrary, the state of long-term expectation is often steady. . . . We are merely reminding ourselves that human decisions affecting the future, whether personal or political or economic, cannot depend on strict mathematical expectation, since the basis for making such calculations does not exist; and that it is our innate urge to activity which makes the wheels go round, our rational selves choosing between the alternatives as best we are able, calculating where we can, but often falling back for our motive on whim or sentiment or chance. 

A View of the Future

Keynes, who died in 1946, would have been thrilled to see his ideas triumph—but not surprised. Against the Marxists and with the religionists, Keynes fervently held that the truth shall make you free. Having spent much of his life advising governments, he witnessed the power of mind. He passionately affirmed this in the famous final passage of the General Theory:

[T]he ideas of economists and political philosophers, both when they are right and when they are wrong, are more powerful than is commonly understood. Indeed the world is ruled by little else. Practical men, who believe themselves to be quite exempt from any intellectual influences, are usually the slaves of some defunct economist. Madmen in authority, who hear voices in the air, are distilling their frenzy from some academic scribbler of a few years back. . . . But, soon or late, it is ideas, not vested interests which are dangerous for good or evil.
The Public Choice school now battles Keynes’ contention, warning that special interests effectively capture and hold good ideas and good policy hostage.

Despite his famous “long run” quip, Keynes thought quite hard about the future. In a graceful 1930 essay reminiscent of Mill, “Economic Possibilities for Our Grandchildren,” Keynes shined his crystal ball. The news was good, he said; Malthus was wrong. In the next hundred years, man could solve the raison d’être of economics: scarcity. Because each generation stands on the shoulders of its parents, perfecting their achievements and living their dreams, our grandchildren and great-grandchildren might climb high enough to satisfy all of their material desires, including luxuries. The streets might soon be paved with gold. After all, despite bumps along the business cycle and wretched wars, the Western economies had swiftly ascended for two hundred years.

More striking, as human existence grows more gentle, human hearts may soften. Keynes claimed that we needed the self-interested homo economicus to evolve economically. Having satiated material desires, humans may heighten their desire for kindness and affection.

We may not live happily ever after, however. With cupboards full and new cars shined, what would we do? Keynes asked. Today, retirees often yearn for work and complain of tedium. What if the whole world retired? How many Lawrence Welks would it take to entertain an entirely pensioned population? Existential angst might pervade a sated world. Often joy comes in striving for goals, not achieving them.

Perhaps this explains Keynes the dilettante, Keynes the art collector/investor/benefactor/curator. Maybe he diversified his portfolio of activities just in case he was too good at economics and brought us too close to heaven. He wanted something to do just in case he made it through the long run.
CHAPTER X

Milton Friedman and the Monetarist Battle Against Keynes

Responding to a beggar, W. C. Fields quipped: “Sorry, my good man, but all my available funds are tied up in cash.” To Keynes, this would be a problem not just for the beggar; by keeping wealth “tied up” in cash or in checking accounts, he would say that Fields was helping to deepen the Depression.

Since his view was that stingy misers perpetuated the Depression, Keynes advocated government spending to lift consumption. To Keynesians, the national economy is like an automobile. The accelerator pedal is marked “higher government spending/lower taxes”; the brake is marked “lower government spending/higher taxes.” A government that drives deftly and carefully can bring economic growth and stable prices.

This chapter tells the story of an intellectual movement that attacks the Keynesian model by asserting that (1) governments are usually lousy drivers, and (2) the economy’s brake and accelerator have little to do with fiscal policy. This movement, called monetarism, admits that the economy does have an accelerator and a brake, but insists that the accelerator should be marked “higher money supply” and the brake “lower money supply.” The monetarists also disagree with the Keynesians about who sits in the driver’s seat. According to the Keynesians, Congress, which authorizes spending and taxes, is the driver. In contrast, the monetarists portray the Federal Reserve Board, which oversees the banking industry, as the driver.

A titanic struggle took place between Keynesians and monetarists from the 1950s through the 1970s. Led by Milton Friedman, Karl Brunner, and Allan Meltzer, the monetarists were initially greeted with derision, even though their intellectual forefathers included Locke, Hume, Mill, and Ricardo. But as they kept producing cogent studies and courageous graduate students, they wore down Keynesian opposition and earned more respect and prominence until finally, during the Carter administration, Congress required the Federal Reserve to take the monetarist arguments seriously, and the Chairman of the Federal Reserve Board decided to follow monetarist advice.

Where does the struggle stand today? It’s a tie. We will see that the federal government treats the national economy as an automobile with four pedals—two accelerators and two brakes! Remember poor Harry Truman begging for a one-handed economist. Today’s leaders seem to be stuck with four-footed economists. To make matters worse, the pedals don’t seem as potent as the strict monetarists and orthodox Keynesians had promised.

What Is Money?

To understand today’s macroeconomics, we must trace the course of the Keynesian-monetarist battles and learn how the monetarist model operates. This requires us to learn a
bit about banking and the Federal Reserve Board. Some of the concepts may seem tricky at first, but the effort necessary to understand them is worthwhile, for the story of how the monetarist theories earned respect is one of the fascinating epics in contemporary intellectual history.

Monetarists accuse Keynes of ignoring money and the money supply, which sounds absurd. After all, how could a man who made a fortune in stocks and commodities and who revolutionized macroeconomics ignore money? That would be like accusing Melville of ignoring whales. Surely, monetarists have something in mind other than the everyday idea of money.

What is money? Anything can be money, including shells and beads; cigarettes often serve as money in prisons. In today’s macroeconomic lingo, we follow the Federal Reserve Board definitions of money supply. The most popular measure is called M1 and equals (1) the amount of currency held outside the banks plus (2) the amount of funds in checking accounts (“demand deposits”) at commercial banks. (Note that corporate stocks and bonds are not considered money. Broader measurements of the money supply include less liquid assets such as savings accounts and money market mutual funds.)

Why would anyone be foolish enough to argue about the money supply? The more money, the merrier, right? Wrong. In slapstick movies, bumbling gangsters drop suitcases filled with bills, and bystanders dive past one another hoping to grab a few. The bystanders always smile, and the bad guys wail. Why do economists cry with the gangsters? A problem does not arise when just a few suitcases burst open. But if lots of luggage were to suddenly flood a town with bills, inflation might follow. If the amount of money overwhelms the capacity to produce goods, consumers, with more money to spend, bid up prices. The town is no wealthier than before; more bills do not bring a higher standard of living any more than if everyone added two zeroes to his or her salary. Remember that wealth is measured by the goods and services it can buy, not by numerals. Since one U.S. dollar can buy thousands of pesos, a Mexican millionaire might be poor compared to a low-income American. Giving all the Mexicans suitcases packed with pesos would not help. Merriment does not necessarily follow more.

What’s the correct money supply level? The easy answer: enough to buy all of the goods produced, so that full employment is reached without a rise in prices. But the easy answer avoids the crucial question. How much money should be in circulation in order to have full employment and stable prices? To answer this question, we must know how fast people spend the money they receive. Do people tend to hold onto their money for a long time before spending it, or do they spend money quickly? How fast does money change hands and circulate through the economy? If money moves quickly, the country does not need as much as it would if people leave it lying around in their sock drawers for months before spending it. Academic careers and national economies hinge on this simple issue. The rate at which the money stock turns over each year is called the velocity of money. Economists
compare this to GDP and speak of the income velocity of money, V. Thus, V equals the level of GDP divided by the money supply.

For example, if the GDP is $3600 billion and the money supply is $600 billion, V must equal 6. If money turns over 6 times during the year, on any particular day people are holding about 2 months’ worth of income (in the form of currency or checking accounts).

Why is this important? How could anyone debate this with anything but gentlemanly insouciance? If velocity is stable, and if the central bank can control the money supply, the government has a powerful tool with which to speed up or slow down the economy. The accelerator and brake pedals marked “money supply” directly control the engine. If velocity is unstable, however, if people vacillate between holding a lot and holding little of their funds in currency and checking accounts, controlling the money supply is not very helpful and the accelerator becomes unhinged.

To simplify the sides in the battle, monetarists believe that velocity is stable, while Keynesians see it as unstable. No wonder monetarists tap the money supply as the most powerful pedal in the government’s car, while Keynesians exalt fiscal policy and a rigid subset of Keynesians see monetary policy as being no more important to the engine than a windshield wiper.

Before exploring the history of monetarism and the evidence for and against it, we must first summarize how the Federal Reserve Board manipulates the money supply. Three tools are most important. First, the Fed controls the percentage of deposits that banks are permitted to lend (the reserve ratio). Assume that the Fed sets the reserve ratio at 20 percent, so banks can lend 80 percent of the money deposited with them. Then assume that our friend Chris deposits $10 in a checking account. This counts in the money supply. (Remember the money supply equals checking accounts plus currency.) If Lynn now borrows $8 from the same bank, the money supply rises by $8. If she deposits the $8 in a checking account and Brad borrows $6.40, the money supply rises further, by $6.40. Now, if the Fed tells banks they may lend only 75 percent rather than 80 percent of their deposits, the banks will have to call in some of their loans, which shrinks the money supply. The more banks lend, the larger the money supply.

Second, the Fed sometimes lends funds to banks. By raising the interest rate on these loans (the discount rate), the Fed discourages banks from lending and reins in the money supply.

Third, and most important, the Fed buys and sells government securities (open market operations). The public, including corporations and individuals, holds about a trillion dollars’ worth of government bonds, which pay interest to holders each year. To understand this tool requires concentration, and it helps to use visual aids. Take out a dollar bill and a piece of paper. Mark the paper “BOND.” Designate one end of the table “Public,” the other “Fed.” Remember, bills held by the Fed are not considered part of the money supply. If the Fed
wants to expand the money supply, it can buy bonds from the public. By buying, the Fed receives a bond (which is not part of the money supply) and gives the seller a check (or dollar bills) in return. When the check is cashed or deposited, it becomes part of the money supply. (When it was held by the Fed, it was not considered part of the money supply.) In contrast, if the Fed sells a bond to an individual or institution, it receives a check (or dollar bills) drawn on an individual’s account. The money supply contracts, for the bond that the seller receives is not money, whereas the funds that the Fed receives cease to be money once the Fed owns them.

The Monetarist Model and Keynes’ Critique

Even before the Federal Reserve System was set up in 1913, classical and neoclassical economists outlined the impact of changes in the money supply. Yale professor Irving Fisher took a crucial step forward in 1911 by deriving a simple mathematical framework from John Stuart Mill’s analysis. One popular version of the “quantity theory” is:

$$MV = PQ.$$  

This simple equation allows us to understand a great deal about the monetarist critique. First, recall that $V$ is velocity and $M$ is the money supply. $PQ$ represents nominal GDP ($P$ is the price level, and $Q$ is the amount of goods and services produced, which is the real GDP). No one disputes this equation. By definition, the amount of money multiplied by the number of times it changes hands equals the nominal value of goods and services purchased. But economists can argue endlessly about the behavior of these variables.

The most crude caricature of monetarism contends as follows: (1) velocity is constant; (2) the amount of goods and services that can be produced is fixed in the short run; therefore, (3) if the Fed raises the money supply by 5 percent, we will see a 5 percent rise in prices. The crude quantity theory essentially erases $V$ and $Q$ from the equation and concludes that any change in $M$ will be felt only in $P$.

Even this cartoon has some merit, though, especially in explaining hyperinflations. The German Weimar Republic presents the model case. Between 1921 and 1924, the printing presses worked full speed, blasting the money supply into the stratosphere. It did not just double, triple, or quadruple. It rose by more than 25 trillion percent! The price index followed, soaring in a year and a half from 1 to 200 million. Everyone was a billionaire! And nearly every millionaire was hungry. Closets burst with bills while cupboards were bare. In America, Samuel Goldwyn said that “an oral contract is not worth the paper it’s printed on.” In Germany, money wasn’t worth the paper it was printed on. The German economy was destroyed. The moral here is that cheap money does not come easy.

Modern quantity theorists, monetarists, claim that their intellectual forefathers were too humble about money: in the short run money can sway not just prices but also economic activity. In the long run, however, change in the money supply only changes prices. The monetarists also add an anti-Keynesian tenet: government spending will not affect prices or output unless the money supply also changes. Only money matters.
We have three important tasks here: First, we must see why monetarists sound so arrogantly confident about money. Second, we must see why Keynesians speak so flippantly about money. Third, we must see why monetarists speak flippantly about government spending. After that, we can examine how the debate stands today.

Let us look at the transmission mechanism that directly links the money supply with GDP. Assume that the monetarists are right: velocity is stable. If the Federal Reserve increases the money supply by buying bonds, it places more money into the hands of the sellers. But people want to maintain a stable level of money holdings. According to monetarists, people hold money mostly for daily transactions. Since they now have extra money, they will spend it on goods, services, and real assets. GDP climbs.

If the Federal Reserve instead touches the brake and sells bonds, people have less money. Since they want to maintain a stable level of money, they cut back spending, slowing GDP.

Essentially, monetary policy plays with the liquidity of the public. Provided people persistently desire a stable level of liquidity, monetary policy can predictably and powerfully affect GDP. The Federal Reserve can toy with the public to promote different levels of spending.

How could Keynes and his followers disagree with this model? Ironically, Keynes once believed it. Even more ironic, the foremost monetarist since World War II, Milton Friedman, once did not. Keynes started as a monetarist and matured into a Keynesian. Friedman started as a Keynesian and matured into a monetarist. His friends may have nicknamed him “Snout” when Keynes was young, but neither he nor Friedman was born pigheaded.

Let’s follow Keynes’ turn from monetarist principles. Part of the Cambridge oral tradition that Keynes imbibed was the “Cambridge Equation,” as taught by Marshall. This equation operated similarly to Fisher’s model. According to Keynes, Marshall “always taught” that the demand for money was measured by “the average stock of command over commodities which each person cares to keep in ready form.”  

During the German hyperinflation, Keynes stressed the power of the quantity theory in his Tract on Monetary Reform, which demonstrated how rapid inflation, encouraging people to spend money at a faster rate, forced prices up even further. By the time of the General Theory, however, the Great Depression convinced Keynes that monetary policy was impotent.

The chief target of Keynes’ criticism was velocity. Why assume that velocity is stable? So what if the central bank raises the money supply and liquidity? Why assume that people will spend the extra money? Maybe they will keep it in their mattresses. If they do, lower velocity would offset higher money. GDP would still flounder. Keynes thought this particularly possible in a depression. Whereas quantity theorists maintained that people hold money for daily purchases and perhaps for “rainy days,” Keynes introduced a third motive, “speculative.” People may hold extra liquidity just to speculate in stock and bond
markets. If interest rates bounce about, speculative demand for money will also bounce. Thus, even if the money supply rises, the desire to hoard may rise also.

In a letter to President Roosevelt, Keynes presented a clever metaphor while scoffing at monetary forces: “Some people seem to infer . . . that output and income can be raised by increasing the quantity of money. But this is like trying to get fat by buying a larger belt. In the United States today your belt is plenty big enough for your belly.”

Not only did Keynes insult the power of money, he and his followers depicted a different transmission mechanism for money. Monetary policy does not work directly through consumption, but through interest rates and investment, they suggested. Two long, treacherous leaps must be taken if the economy is to feel anything from monetary maneuvering. If the Fed raises the money supply, people must not hoard (step 1). Even if people do spend the money, according to Keynesians, they may purchase stocks and bonds—financial assets rather than real assets. This will lower interest rates. Only if businesses or households borrow from banks and then buy goods and services will GDP budge (step 2). While waiting for these two big risky steps, many monetarists could fall into the gorge below.

Strides in the reverse direction are just as long and perilous. If the Fed shrinks the money supply, people may not care that they have less cash in their sock drawers. Even if they do respond by selling off financial assets (which raises interest rates), borrowers may not be discouraged by higher borrowing costs (if, for example, they are obligated to continue a building project). GDP could continue to hum along.

In sum, the Keynesian critique cuts deepest when (1) velocity or money demand is fickle, and (2) borrowers do not care about interest rates.

Friedman laments that Keynes’ influence “led to a temporary eclipse of the quantity theory of money and perhaps to an all-time low in the amount of economic research and writing devoted to monetary theory and analysis. . . . It became a widely accepted view that money does not matter, or, at any rate, that it does not matter very much.”

The eclipse even shaded Friedman’s early views. Despite his graduate studies at the University of Chicago, a long-standing home for Keynes critics, a young Friedman penned a 1942 article on inflation that scarcely mentioned monetary forces. Ten years later, the article appeared in his book Essays in Positive Economics, together with seven new paragraphs. Friedman explained the additions: “As I trust the new material makes clear, the omission from that version of monetary effects is a serious error which is not excused but may perhaps be explained by the prevailing Keynesian temper of the times.”

**Milton Friedman and the Counterattack**

No one was better suited by temperament or intellect to lead the monetarist counterrevolution. A ferocious debater who argued his case so forcefully that he unnerved
academic opponents, Milton Friedman was not intimidated by conventional wisdom. On the eve of the counterrevolution, his diminutive physical appearance matched his professional stature. Galbraith recalls that during the 1950s and 1960s, anyone who “dwelled too persistently” on the role of the money supply was considered a “crank.” Through his courage of heart and brilliance of mind, Friedman’s professional stature grew, earning him a Nobel Prize in 1976 and Galbraith’s recognition of him as “perhaps the most influential economic figure of the second half of the twentieth century.”

Friedman considered himself a lucky man and named an autobiographical work about himself and his wife, Rose, Two Lucky People. He was born broke in Brooklyn in 1912, his Austro-Hungarian immigrant parents toiling in sweatshops. A few years later, they crossed the river to Rahway, New Jersey, a place best known for its state prison. His mother, Sarah, opened a small clothing store, while his father, Jeno, peddled wares and did odd jobs around town. Young Milton and his three sisters did not grow up in luxury, but times got even tougher when their father died during Milton’s senior year in high school. How could he consider himself lucky? Because he was born in a free country. To get through Rutgers University, he waited tables and worked as a store clerk, meanwhile earning a scholarship. At Rutgers he first studied mathematics and accounting. A high school teacher had inspired him to see the beauty in math by comparing the Pythagorean theorem to Keats’ “Ode to a Grecian Urn.” Soon Milton discovered economics—and not a moment too soon. Economics needed some help, for he entered the university in 1929, just as the stock market crash was breaking apart modern capitalism like an urn that had toppled off a high shelf.

Under Rutgers professor Arthur Burns, later a Federal Reserve Board chairman, Milton learned the orthodoxies of the classical economists. He moved on to graduate school at the University of Chicago, where he was lucky enough to have a professor who seated students alphabetically. With his surname beginning with “F,” he sat next to a young woman named Rose Director. Though their marriage lasted sixty-eight years, somehow Milton seemed to suggest that had he been born Milton Zuckerman, he would not have found his bride.

Milton Friedman picked his first fight as a graduate student, writing a book that argued that the American Medical Association propped up doctors’ wages by keeping out competition. The association found advanced galleys of the book and protested the publisher to cancel the book. The publisher refused, and Friedman’s career as a fearless analyst was born. Friedman argued that in “all professions . . . aristocratic, or at least restrictive movement had taken hold,” hurting consumers and propping up barriers to entry for new competitors. In 1900, only 4 percent of the labor force worked as “professionals,” but by mid-century states had passed more than 1,200 licensing statutes for jobs as diverse as physicians and embalmers. From cradle to grave, Americans passed through the hands of licensed professionals.

During World War II, Friedman worked for the government as a statistician, attempting to apply mathematics to the testing of metals. He learned that theoretical models must be
linked with empirical testing. At one point, he designed on paper a super-strong metal alloy for weapons use. Econometric tests yielded very robust results. Friedman marched into the chemists’ laboratory with his winning formula. They followed his recipe and produced a metal with all the strength of a ripe banana. He learned not to trust theoretical statistics without real testing.

After the war, the bespectacled Friedman began teaching at the University of Chicago. He admired Keynes’ work. Even after smashing many Keynesian ideas, Friedman continued to generously laud the Englishman, calling him both a great economist and a great man. Friedman’s intellectual generosity was a constant trademark, just as notable as his ferocity in debate. But smash he did.

In a series of path-breaking studies Friedman salvaged the quantity theory from Keynes’ attack. Keynes left only one dusty, disreputable escape path open: Friedman would have to show that the private sector was stable. Velocity and consumption must not undulate like the hips of a Hawaiian hula dancer for monetarism to make sense.

In 1956, at a time when Keynesians dominated academia, Friedman published a set of essays that improved and tested the quantity theory of money. Instead of just tying money to prices, Friedman aimed at redefining the demand for money (the reciprocal of velocity). Demand for money is stable, he submitted, because it depends on long-term factors such as health, education, and the income an individual expects over a lifetime. Since these do not wildly waver, velocity does not. Keynes slighted long-term influences.7

The next year Friedman turned to consumption. The simple Keynesian model assumed that as current income rose and fell, so did consumption. If income fell in a particular year, people would spend less. This seems obvious on the face of it. Again, though, Friedman advocated a longer view. After all, a man who receives his paycheck on Fridays does not starve all week and feast all weekend. Rather he maintains a steady flow of consumption because he holds expectations about long-run income. Friedman’s Permanent Income Hypothesis posits a smooth path, only veering when expectations about future income flows change. Consumers will not let a bad week or month or year alter their patterns. They will simply use up some of their savings. In an exceptionally good year they will just save more. Only if they perceive a major shift will they alter their course.8

Friedman was not alone in pointing to long-run concerns. Nobel laureate Franco Modigliani, a Keynesian, performed similar studies at this time on a Life-Cycle Hypothesis with similar results.9

The prime conclusion of Friedman’s work? Consumption is impressively stable.

If Friedman and Modigliani are right, temporary government policies have only weak effects on the private economy. How can we test this? A highly successful 1964 tax cut boosted consumption and sent the economy roaring ahead. Since the program slashed payroll tax rates, consumers viewed it as permanent. In 1968 the Johnson administration
feared inflation and deficits resulting from Vietnam war expenses and burgeoning social spending. Congress passed an explicitly temporary tax surcharge to slow the economy. Sure enough, consumers responded not by spending less, but by drawing more from their savings in order to maintain their high consumption levels. In 1975, a temporary tax rebate also proved ineffective. Again, in 2001, a $600 per couple tax rebate proved far less powerful than cutting tax rates.

Temporary policies have failed outside the United States as well. The Japanese Ministry of Finance tried to pump up consumer buying during the mid-1990s with temporary tax cuts, which did nothing but annoy the recipients. Families were so angry at the government for permanently raising sales taxes that they thought a temporary income tax cut was a chintzy concession. Instead of spending the money, they simply put it in the bank. Japan scrolled through more than a half dozen prime ministers during the long-lasting recession of the 1990s.

Although Friedman designed supporting theories for monetarist claims, he soon required empirical, historical studies to answer critics who ranged from the skeptical to the mocking. Friedman had long held the philosophical position that the true test of a theory is whether it correctly predicts events. Elegant molds are wrong if they are useless in the real world, he maintained. In 1963, he and Anna J. Schwartz released a massive report, A Monetary History of the United States, 1867-1960. Friedman knew that the strongest case for Keynesians was the Great Depression. He wasted little time before declaring that the depression testified to the power of monetary policy, not, as Keynes believed, to its impotence. In other words he stole the best witness from the Keynesians. Between 1929 and 1933 the quantity of money had plunged by one-third. Friedman and Schwartz pointed fingers at the Federal Reserve Board, which had refused to provide liquidity to banks when panic-stricken customers banged on doors demanding their deposits. A little support from the Fed would have instilled a lot of confidence among customers, they said.

In sum, A Monetary History claimed that monetary misuse accompanied every severe recession and every significant inflation over the past century. There were no Keynesian recessions or inflations. One by-product of Friedman’s work was to deflect blame for inflation from labor unions, which were often blamed.

As Friedman and other monetarists such as Meltzer and Brunner chipped away at the Keynesian orthodoxy, the Keynesian response varied. Some Keynesians countered with their own studies, some admitted that monetarists had a point, and others continued to laugh. At a conference in the late 1960s Robert Solow of MIT commented on a Friedman paper: “Another difference between Milton and myself is that everything reminds Milton of the money supply; well, everything reminds me of sex, but I try to keep it out of my papers.”

As the 1960s progressed, though, monetarism gained more strength, for velocity was showing a remarkably stable pattern. In fact, during the three decades following 1948,
velocity behaved predictably, growing at just over 3 percent per year. The crusade that Friedman had fought with just a few believers seemed to be getting divine help.

After proving the power of money and breathing new life into the quantity theory, monetarists sought to challenge the Keynesian claim that government spending could spur the economy. To slay this dragon, they needed to show that the Keynesian multiplier was nil.

Monetarists announced that Keynes dodged the big question: Where does money for fiscal spending come from? If the money supply stays constant and the government spends money, somebody else must have less to spend. There’s no such thing as a free lunch. If Congress raises taxes to pay for programs, consumers cannot buy as much. If Congress borrows money by selling Treasury bonds to the public, businesses cannot borrow as much for investment. Interest rates rise and investment falls. Government spending must crowd out private spending. Keynes’ elementary multiplier ignores this.

Keynesians cannot deny that crowding out takes place. But, they counter, crowding out does not completely offset government spending, especially during recessions. The real issue is the extent of crowding out. The St. Louis Federal Reserve Board put forth an econometric model based on monetarist principles. The model estimated that if the government permanently raised spending by $1 billion, the economy would feel hardly anything the first year and nothing at all after that. The Data Resources Model, which was more Keynesian, estimated a multiplier of about 1.6 the first year and steadily dropping after that. Even Keynesian models admit that Keynes overstated his case.11

The stagflation of the 1970s made Milton Friedman frustrated, but it also made him famous. At the beginning of the decade, undergraduates were taught that “everyone” knew that more jobs could be created, if only society would allow slightly higher inflation. This tradeoff seemed documented by a curve named for the British economist A. W. Phillips. Under the Phillips curve analysis, if you were not willing to tolerate a little more inflation in exchange for more jobs, you were not just stupid but niggardly. Friedman did not buy it. He showed, along with future Nobel laureate Edmund Phelps of Columbia, that if government tried to “buy” more jobs by unleashing inflation, it would only get higher prices. In fact, inflation might even destroy jobs. The 1970s stagflation proved a disaster for U.S. households, but a ringing endorsement for Friedman’s analytical powers. Lawrence Summers, the eminent economist and former Treasury Secretary, recalled that Milton Friedman had been a “devil figure” to his family of progressive economists. But between the time Summers was an undergraduate in the early 1970s and a young professor a decade later, “Friedman’s heresies had become the orthodoxy” and Friedman was no longer a demon, but a man whom Summers looked to with “great admiration.”12
Modesty in Victory

Imagine that you are Milton Friedman. You have just demonstrated that money not only talks, it walks and runs the economy along. The next step would be to persuade the Federal Reserve Board to raise the money supply in recessions and to lower it when inflation appears imminent, right? When business seems slow, you would point to the printing presses and shout to the Fed governors: “Don’t just stand there! Do something!” Not our Milton. Instead he shouts: “Just stand there!”

With perhaps uncustomary humility, Friedman claims that economists do not know enough about monetary policy to manipulate it wisely. Sometimes it takes six months before monetary policy affects nominal GDP, sometimes two years. The Fed usually hurts the economy when it tries to fine-tune, because it cannot know how long the lag will be. In 1968 the Fed feared a recession. It pressed down hard on the monetary accelerator. But the economy did not feel the effects until after the downturn had passed. The result was high inflation, for the effects came during the recovery. In 1974 the Fed slammed on the monetary brakes to halt inflation. A recession followed in 1975. When Gerald Ford jumped into the driver’s seat at the White House, he cleverly accepted the automobile metaphor and told Congress to restrain its high expectations, for he was “not a Lincoln but a Ford.” Wise advice, since the economy poked along like an Edsel.

Friedman’s advice that the Fed not react to economic news sounds like Admiral Hyman Rickover’s advice when he grew weary of Pentagon bumbling. The Pentagon should split into three divisions, he stated. The first division should do all of the work. The second and third should spend all day writing longhand letters to each other. Even with this plan, the Pentagon would work harder than Friedman wants the Fed to work.

Friedmanites propose that the Fed be replaced with a robot that would delicately press the monetary accelerator at a fixed growth rate regardless of economic conditions. Whether 3, 4, or 5 percent, a constant growth would erase a major source of instability, the caprice of the Federal Reserve. If the economy dips, the constant addition of liquidity will feed spending. During upswings, inflationary sparks will not have enough fuel to inflame.

What a difference from Brookings Institution economist Arthur Okun’s confident hyperactivist Keynesian position of the 1960s! The 1962 Economic Report of the President did not stop at combatting inflation or recession. Sophisticated economists would fine-tune the national economy. Fiscal policies would smooth out an ever-growing prosperity:

Insufficient demand means unemployment. . . . Excessive demand means inflation. . . . Stabilization does not mean a mere leveling off of peaks and troughs in production and employment. . . . It means minimizing deviations from a rising trend.13
While no honest economist could write such braggadocio today, most economists disagree with Friedman’s monetary rule. Their motto: To err is human, but to really foul things up takes a computer. Even if Friedman is right and velocity appears stable over a long period, it certainly deviates in the short term. If velocity falls for several months while money continues on a fixed trend, the economy will tumble. Perhaps not for long, but jobs do hinge on the Fed’s performance in those instances. The tough questions regarding an activist Fed remain unresolved: How long does it take for the Fed to detect velocity swings (“recognition lag”)? How long does it take for their action to affect the economy (“impact lag”)? Does the Fed know what it should do?

In academia, victory comes when your peers get bigger laughs pointing at your critics than at you. By the late 1970s the monetarists moved from being the butt of jokes to the head of the class. Central banks throughout the world began closely monitoring the money supply. German central bankers at the Bundesbank became orthodox monetarists and have prodded the new European Central Bank to follow their tradition. Mainstream economics absorbed many monetarist propositions and shed its flippancy about money and its worship of fiscal forces. Economists can no longer be cleanly bisected into monetarist and Keynesian camps. Recall Richard Nixon’s remark, “We are all Keynesians now.” Even Friedman admitted that Nixon was right, with reservations, of course. The intellectual cycle has come around again, for Modigliani has confessed, “We are all monetarists now,” with reservations, of course.

The 1985 edition of Samuelson’s Economics, written with William Nordhaus, conceded that “early Keynesianism has benefited from ‘the rediscovery of money.’ Money definitely matters. In their early enthusiasm about the role of fiscal policy, many Keynesians unjustifiably downgraded the role of money.” Samuelson and Nordhaus did not mention the names of any perpetrators.

A perhaps apocryphal story illustrates the point: A successful businessman visited his old economics professor. While chatting, the former student noticed an exam on the professor’s desk and began reading. Shocked, he announced, “This is the same exam you gave me fifteen years ago! Aren’t you afraid the students are just going to track down old tests?” The professor laughed. “No, that’s okay. I do keep the same questions. It’s the answers I change each year.”

**Velocity Vexes the Victors**

Having persuaded Modigliani and Samuelson that money matters a great deal, by 1981 the monetarists were singing the old Gershwin song: “Who’s Got the Last Laugh Now!”

But the monetarists soon stopped singing. Margaret Thatcher in Great Britain and Ronald Reagan in the United States urged the central banks to follow a monetarist anti-inflation path, cutting the money supply and ignoring a rise in interest rates. Sure enough, inflation
dropped at an impressive rate, falling in the United States from over 12 percent in 1980 to under 4 percent in 1982. Few economists had expected money to work so forcefully. As forecast, however, a severe recession accompanied (since at first monetary policy alters output and prices, not just prices, as it does in the long run). Unemployment in the United States topped 10 percent and only began declining in 1983. To wring inflation from an economy is not fun.

Monetarists believe that the Federal Reserve took too crude a course, slamming the monetary brakes too hard. Furthermore, they assert that the Fed under chairman Paul Volcker allowed the money supply to swing wildly. Still, even monetarists admit that a more gradual policy would still have induced a recession.

If the anti-inflation course proved the power of money, why aren’t monetarists still whistling a happy tune? Why did the counterrevolution end in a tie? Well, a funny thing happened on the way to economic recovery. Remember the hub of monetarism, stable velocity? Just as monetarists reached exalted status, people began re-examining their sock drawers. From 1948 to 1981, velocity maintained a steady 3.4 percent growth each year. Suddenly, in 1982 the sock drawers filled up. Velocity plummeted by nearly 5 percent. From 1982 to 1988 the course of velocity was thoroughly confusing. If velocity falls, and the money supply does not grow at a higher rate, GDP must fall also.

How did the Federal Reserve respond to the collapse of velocity? Far from following a monetary rule of 3 or 4 percent growth, the Fed stomped on the monetary accelerator. Ignoring a target of 3 to 8 percent growth, the Fed launched M1 to more than 15 percent during 1986 to offset tumbling velocity.

A fixed monetary rule in 1986 might have been disastrous. Even Beryl Sprinkel, a Friedman protégé and the first orthodox monetarist to chair the Council of Economic Advisors, admitted in the 1987 Economic Report of the President:

In the context of moderate real growth, very low inflation, and falling inflation expectations and given the uncertainty about the behavior of velocity, the deemphasis of M1 in favor of other variables . . . appears to have been an appropriate judgment. . . . No evidence suggests that the Federal Reserve has erred on the side of monetary restriction.15

The Thatcher government also jumped on the monetary pedal in the face of lower velocity.

No one knows whether velocity will return to a stable pattern. Several hypotheses have been advanced to explain the drop. Since the deregulation of banking over the last decade, people are keeping more assets in interest-bearing checking accounts. Since they hold more money, velocity falls. Some tests show, however, that velocity would have fallen despite this switch. Friedman and other monetarists explain that the dramatic fall in inflation and interest rates in the 1980s and 1990s reduced velocity. Economists had underestimated the sensitivity of velocity to interest rates. In addition, housing refinance tools have given home
owners a new source of liquidity. In recent years, the Federal Reserve Board has tracked the money supply, but Chairman Ben Bernanke has resisted relying on it to a large extent. Nonetheless, central banks throughout the world agree that either a soaring or a collapsing money supply should sound loud alarms in the ears of policymakers.

To paraphrase Churchill, velocity has become a riddle wrapped in a mystery inside an enigma. And it is getting the last laugh.

A Synthesis and a Look at Supply

Since Keynes’ death, the world has witnessed an enriching intellectual struggle. The persistent hammering by Milton Friedman kept alive a tradition that reached back centuries. Mainstream economics can neither deny its past nor refuse all of Keynes’ innovations. Federal Reserve economists closely monitor both M2 and the Keynesian concept of potential GDP in a way that has been described as “putting Keynes’ head on Milton Friedman’s body.”

In the previous chapter, we asked whether Keynes would choose to study economics today. Here we may ask whether Keynes would have remained purely a Keynesian if he had lived to see the research and resurgence of the monetarists. Given his pragmatic, piercing mind, he would surely admit that some of the fundamental things apply, as time goes by.

The generation of bright economists who followed Friedman and Samuelson, including luminaries such as Martin Feldstein, Michael Boskin, Paul Krugman, and Lawrence Summers, has been spared the bloody Keynesian-Monetarist debate. They all find a role for both monetary and fiscal policy.

Rather than wrangle over policies that try to control aggregate demand, they have turned to the question of aggregate supply, asking how the federal government can induce firms to lift productivity. Higher productivity translates into a higher standard of living. But rising productivity requires rising investment in plant, equipment, research, and education. American economists aligned with both major political parties have blamed imprudent tax policies for sluggish productivity growth.16

Most of these economists carefully distinguish themselves from the zealous pamphleteers and politicians of the early 1980s whom Herbert Stein called “punk supply-siders,” some of whom promised that income tax cuts would unleash such a tremendous burst of economic activity that tax revenues would quickly rise. While this “Laffer Curve” argument, named for the cocktail napkin sketch of University of Southern California economist Arthur Laffer, was often exaggerated, the infectious enthusiasm of the supply-siders inspired mainstream economists to push harder in their research on the ill effects of high taxes and low savings rates on the economy.
Edward Prescott, a 2004 Nobel laureate, contends that high tax rates explain why the French, Germans, and Italians spend so much time relaxing at coffee bars and spas. He finds that Western Europeans “work one-third less than North Americans and Japanese,” because France, Germany, and Italy tax collectors take 60 percent of their income, while Americans, Canadians, and Japanese tax labor at 40 percent. He points out that during the early 1970s, French used to work nearly 50 percent harder—but their marginal tax rate was far less.17

Even those economists who disdain supply-siders oppose a return to the 70 percent tax bracket of 1980 (or the 91 percent marginal tax rate of the early 1960s!), which inspired people to avoid taxes through gimmicks, shelters, and loopholes. During the last half of the 1980s, more than 50 countries cut their top rates, including such bastions of egalitarianism as Sweden and Australia. (Lebanon was one of two that hiked rates. Did they not have enough trouble?) When President Clinton persuaded Congress to raise taxes on the rich, he meant moving the top rate from 33 percent to 39.6 percent. Despite campaign rhetoric denouncing the 1980s as a giveaway to country-clubbers, he did not suggest returning the rate to the 70 percent that welcomed Ronald Reagan when he moved into the White House. Note also, that while Clinton pushed up tax rates in the United States, he spent seven years urging the Japanese government to slash its income taxes in order to resuscitate its rather lifeless economy.

President George W. Bush reversed the Clinton tax hikes, and the push-pull between politicians continues, though several prominent Democratic governors have made a point of cutting taxes in their states, beefing up their supply-side bona fides.

Taxes will always be with us, pulling and pushing us through business and personal decisions. No one is immune. In 1998, Mick Jagger canceled the British leg of the Rolling Stones’ world tour entitled “Bridges to Babylon,” complaining that the British laws would levy a $19 million tax on his band if they played on British soil. By playing a single concert in the United Kingdom, the Rolling Stones would have been forced to pay taxes on all of the income they earned from their foreign concerts too. If instead they stayed away from their home turf, they would escape British taxes. So they did, disappointing 350,000 fans. Jagger did not hide behind a publicist, by the way. He explained his economic decisions to the press cogently, as you would expect from someone who attended the London School of Economics in the early 1960s.

We are all Keynesians now, thanks to Keynes. We are all monetarists now, thanks to Friedman. And we are all eclectics now, thanks to a turbulent world.

Milton Friedman’s sparring went beyond monetary debates. While free market economists are sometimes derided for lacking compassion, Friedman proposed a “negative income tax” back in 1962 to help poor people and replace the convoluted welfare system. His design inspired today’s Earned Income Tax Credit. In international economics, Friedman committed heresy, arguing in 1953 that exchange rates should float, rather than be fixed by governments. Today trillions of dollars trade each day in foreign exchange and global bonds
markets, pressuring governments and central banks to act more efficiently. In the few years before his death in 2006 at the age of ninety-four, Milton and Rose Friedman together argued vigorously in favor of creating competition among schools by offering parents the freedom to choose schools, thereby replacing the monopoly of local schools.

Milton Friedman’s proudest moment, beyond the Nobel Prize, beyond the theoretical and empirical triumphs, came in 1970. The subject had little to do with the economy: It was the military, which drafted hundreds of thousands of young Americans to a bloody war in Vietnam. President Nixon appointed Friedman to a commission on the all-volunteer force. At the outset, the commission was evenly split between supporters and opponents of a volunteer army. General William Westmoreland testified that he did not want to command an army of mercenaries. Friedman stopped him: “General, would you rather command an army of slaves?” Westmoreland drew himself up and said, “I don’t like to hear our patriotic draftees referred to as slaves.” Friedman replied, “I don’t like to hear our patriotic volunteers referred to as mercenaries. But if they are mercenaries, then I, sir, am a mercenary professor, and you, sir, are a mercenary general; we are served by mercenary physicians, we use a mercenary lawyer, and we get our meat from a mercenary butcher.” Friedman recalled, “That was the last that we heard from the general about mercenaries.” 18

Like the dissident, persistent juror in the play Twelve Angry Men, Friedman brought forth from the commission a unanimous vote for the volunteer army, and for freedom.
CHAPTER XI

The Public Choice School: Politics as a Business

“...I saw a startling sight today,” Mark Twain said, “a politician with his hands in his own pockets.”

Can a new school of economic thought rise up on Twain’s snide jibe? In 1986, the Nobel committee awarded the economics prize to James M. Buchanan, a founder of the Public Choice school of economics. The Public Choice theorists ask us to reconsider and reject orthodox public finance theory on grounds that Twain would understand. A realistic view of politics damn Keynesian economics more certainly than any multiplier statistics mustered by monetarists, they submit. Public Choice supporters trust politicians no further than they can throw them.

The Public Choice school thinks it can explain many economic and political problems: why we suffer from persistent budget deficits; why special interest groups proliferate; why bureaucracies continue to expand despite presidential promises to trim them; and why government regulators often protect businesses more than consumers. Most economists see politics as an irritating, incomprehensible, noneconomic obstacle to good policy. In contrast, Public Choice economists insist that politics must be studied with the tools of economics. Politics is, they charge, an economic activity. Economists should not just throw up their arms and look disgusted. They should ask why bureaucrats and legislators frequently frustrate good policy.

If one looks hard enough, one can find many forerunners of Public Choice theory, including Adam Smith, James Mill, the Swedish economist Knut Wicksell, and just about anyone who has cursed bureaucrats. Nonetheless, the real explosion of scholarly work came after World War II. As government has grown, so have its critics.

Like that piercing critic Thorstein Veblen, James Buchanan often felt like a pariah in mainstream academic circles. Born in Murfreesboro, Tennessee, in 1919, Buchanan could not afford to attend a prominent university. Instead he chose Middle Tennessee State Teacher’s College in his hometown. MTST’s future Nobel laureate earned money for college fees by milking cows each morning and evening. After four years of bovine life, Buchanan entered the University of Tennessee, where he earned a master’s degree in economics. World War II interrupted his academic path, and Uncle Sam sent him to the Naval War College in New York.

John Kenneth Galbraith started with a similar bucolic background, among cows and meadows in Canada. However, while Galbraith moved smoothly into mainstream academics and a post at Harvard, Buchanan struggled and quickly learned to despise the “Eastern elite.” Buchanan still winces at the intellectual snobbery and discrimination he faced in New
York as a Southerner. After the war, Buchanan went west, earning his doctorate at the University of Chicago. He then fled south to the University of Virginia.

Buchanan still sees much of his work as a reaction to the idealistic musings of ivory tower scholars from the East. While convoys of Harvard economists flocked to Washington during the Kennedy and Johnson administrations, Buchanan quietly assailed their ideas from the hills of Virginia, publishing The Calculus of Consent with Gordon Tullock in 1962.

According to Buchanan, the “‘eastern academic elite can’t leave the mindset’ of their role as lofty and wise elders who deliver Olympian pronouncements to government. ‘They always think of themselves as advisers to Washington.’”

And as for Buchanan? “I call myself part of the Great Unwashed [who are] just trying to figure out what’s going on.”¹

Even his friends admit that Buchanan is not a backslapping guy. Considering his austere personality and distaste for bon vivants awash in Perrier, one can imagine few situations more tense than Buchanan in the same room with the elegant John Kenneth Galbraith.

Rather than trace the history of the Public Choice school, let us see how the school regards several of the most pressing issues in political economy. The thrust of Public Choice is glaringly simple: If businessmen are self-interested, why not assume that government officials are “political entrepreneurs”? What do they maximize? Their power and their ability to gain votes. Economists spent two hundred years developing a model of human behavior. Why throw it away when confronting government?

The Paradox of Special Interest Groups

No one is safe when Congress is in session—including congressmen. Lobbyists hound them and their aides, pushing for favors, tax breaks, grants, and protection. The late Mancur Olson, a University of Maryland professor, contended that systematic incentives to sap society’s efficiency drive special interest organizations, whether unions, clubs, or corporations.²

Why don’t special interests patriotically lobby Congress to boost efficiency and national wealth? It doesn’t pay. Consider the Committee for Thorough Agricultural Political Education of Associated Milk Producers, which ranks high on the list of donators to congressional campaigns. Milk producers love price supports, guarantees that they will “earn” a minimum price per gallon. Economists hate price supports. And consumers suffer because of them. (Incidentally, children drink a disproportionate share of milk. Since children make up a large proportion of the poor, poor children probably suffer most.) Suppose the committee members compose 1 percent of the U.S. population. If they were to successfully lobby Congress to pass a general measure that would raise overall U.S. productivity, they would receive only 1 percent of the benefits. Yet they would have exerted 100 percent of the effort to pass the bill. They could end up spending $50,000 on legislation
that creates $1 million of new wealth for the country, but they would receive just $10,000 as their share. Only if the bill breathes new income greater than one hundred times the lobbying costs does patriotic lobbying make sense. Consequently, organizations have little interest in promoting a more efficient society through politics. It just doesn’t pay.

Now consider the milk committee looking out for itself. It can profit by taking from others through price support schemes. From whom does it take? Consumers, of course. Let’s say that milk price supports costs the committee $50,000 in lobbying fees, but raise producer income by $10 million. The producers bear 100 percent of the lobbying burden, but receive 100 percent of the benefits. Politics can be a wonderful investment. No wonder producers often are more eager to decorate offices in Washington than install new equipment in their factories. No wonder they hire plenty of lawyers: the payoff is better. Willie Sutton explained that he robbed banks because “that’s where the money is.” To many organizations, the money is in Washington.

These political activities usually hurt society. Do the coalitions care? The milk committee in our example bears only 1 percent of the total injury. Only if GDP drops by one hundred times their payoff does an injury to the economy dissuade them. “A society dense with special-interest organizations is like a china shop filled with wrestlers battling over its contents, breaking much more than they carry away,” says Olson.³

If price supports rob the pocketbooks of consumers, why don’t consumers organize to defeat the schemes? It doesn’t pay. In our example, the total cost to consumers is $10 million. If the population equals 250 million, it costs each consumer about 4 cents. Yet it benefits each producer by $4.00. A milk producer will show forty times the interest of a milk consumer in the issue. Moreover, it’s much easier to organize producers.

Lobbyists for sugar growers, who represent only about .0002 of the American population, manage to keep the U.S. sugar price at triple the world price. Not only do they benefit grandly, but producers of corn sweeteners (sugar substitutes) collect handsome profits competing with artificially high sugar prices. Log Cabin brand syrup has no maple syrup, just corn syrup. Scientific studies show that some artificial sweeteners can cause cancer in laboratory rats. Artificial price supports can cause cancer in a nation’s body politic.

This problem emerges again and again in democracies. Motivated organizations trample on the interests of consumers, who individually have a small stake in the outcome. Ultimately, the individual consumers are hurt badly as national efficiency and income fall. But whom do they blame? No obvious villain appears because the special interests snatch such small bites from the common weal.

For consumers to blame themselves makes little sense. To keep track of Congress’ actions costs money. It is rational to ignore special favors bestowed to others when they cost you only 4 cents. After all, it would cost many times that just to telephone your congressman to find out how much such a favor costs you. Economists call this “rational ignorance.” We
can’t know everything. We haven’t the brain capacity, time, or money to learn. As one comedian has said, “You can’t have everything. Where would you put it?”

Everyone in New York City and Boston recognizes that there’s a shortage of taxi cabs. These cities actually limit the number of licensed cabs, which drives up the income of drivers and drives down the morale of the cities. Still, the city governments refuse to support the grumbling of the general public over the ranting of taxi owners. The Public Choice school does not simply point out that the “squeaky wheel gets the grease.” More important, Olson and his colleagues teach us why tight coalitions make a much more powerful noise than a diffuse, unorganized public.

Olson takes his arguments into far more controversial territory by drawing broad historical laws. He assumes that stable societies are more susceptible to special interests. He then claims that “long-stable” societies will grow more slowly than relatively new societies. As time passes, leeches multiply and suck the lifeblood from a nation. If so, revolutions and wars can invigorate economies, since special interest groups lose their stranglehold. He cites Great Britain as a stable, retarded nation and postwar Japan as an economic miracle.

Few economists follow Olson all the way to his conclusion about the rise and fall of nations. Even so, the arithmetic of special interest groups makes sense.

The special interest paradox seems hopeless. Is it? Not necessarily. After all, each group suffers when Congress awards favors to the others. If a president or congressional leader could get a mandate for across-the-board budget cuts or broad policies against subsidies, price supports, and protection schemes, the increased efficiency in the economy could offset for these groups the elimination of special favors. Sadly, historical examples are few. And it seems more likely that the politicians will continue to deliver tough-sounding rhetoric, while special interests spout words of magnanimity—but nothing really happens.

How the Regulated Can Control the Regulators

Why does the government regulate many industries? The quick answer, found in high school texts, is that these industries are monopolies or oligopolies, and the consumer should be protected from gouging. The answer implies that businesses hate regulation.

Following the lead of Nobel laureate George Stigler, Public Choice economists have added another possible answer:

Businesses want regulation because it protects them from the risks of dynamic competition. They actually lobby for regulation. This is known as the “capture” theory of regulation, for the regulated entities “capture” the regulators. 5

How does this work? Consider a state’s Board of Barbers. The board insists on certain rules and standards—for example, that all barbers sterilize their combs and reject any customers who look like dogs. The board’s interference may raise costs slightly, but the
barbers may persuade the board to adopt other rules that benefit them grandly, especially by restricting entry. The board may hinder new barbers from moving to the state by demanding that they spend a year in Jamaica cutting Rastafarian dreadlocks or that they intern at a minimum wage for three years at an accredited dandruff clinic. Each of these regulations, aimed at protecting barbers from competition, may be offered under the guise of protecting the public against inexperienced practitioners. In fact, the public gets scalped. The state of Arizona demands that hairstylists take sixteen hundred hours of classroom instruction—at a cosmetology school approved by the government. How many hours of training does Phoenix demand of a policeman? Six hundred hours. Evidently, it takes almost three times as much training to pick up a comb than a .357 magnum.

Regulation seldom levies only good or only bad upon an industry. Milk regulators may require stainless steel vats, which cost more than plastic ones. The rule may irk milk producers, but the price supports and subsidies they receive surely outweigh such trivial irritants.

Why do regulated industries succeed in capturing the supposed guardians of the public interest? Recall the rational ignorance-special interest paradox. The industry has an incentive to gather all the academic testimony it can on its behalf. Economists actually advertise in the pages of law magazines, offering their expert research. Regulatory officials often feel that they might as well give in to the industries, since the “public” doesn’t seem to care much. Finally, a more cynical explanation looms: regulators often have incestuous relations with the regulated. Commissioners come from the private sector and return to the private sector after their tenure. Making friends is one route to making money. In 1970 Ralph Nader referred to the “Interstate Commerce Omission” as a federal agency that kept the trucking industry cozy.

The capture theory has not captured the minds of all economists. The theory presents a narrow, one-sided view of politics. Sometimes politicians can reverse the hold and take businesses hostage. A demagogic politician can rise to power on the promise to crush greedy robber barons. He could promise a capon in every pot and force down the price of capon with punitive regulations that harm the fowl industry. The indignant politician who arouses the public’s anger and interest provides the chief rebuttal witness to the Public Choice hypothesis.

Public Choice economists do not say that all regulations help industry and harm consumers. They do not argue for pure laissez-faire economics. They do, however, urge that people compare the free market result with a realistic model of government regulation rather than a mythical vision that assumes a benevolent government always striving to serve the public interest.


**Big Promises, Bulging Budgets, and Bureaucracies**

Olson and Stigler portray special interest groups swinishly struggling to stick their snouts in the public trough. Why does the government feed them? Why does the government supply the goods and services that different groups demand? Public Choice theorists answer these questions by examining bureaucracies and politicians.

Gordon Tullock and William A. Niskanen, Jr., have watched bureaucrats as closely as biologists study laboratory rats—which indicates the level of admiration the two authors have for their subjects. According to Niskanen, bureaucrats compete in a rat race similar to the one that businessmen participate in. The bureaucrat, like the businessman, is a self-interested rat, but his self-interest shows through in different ways. The businessman battles to maximize profits. Of course, government bureaucrats cannot maximize their own profits except, perhaps, through bribery. Instead, they try to maximize a different set of variables: salary, perquisites, power, prestige, opportunities after retirement, and so on. How does the bureaucrat maximize these? By inflating the budget and size of the bureau. Niskanen depicts bureaus as budget-maximizing organizations. Bureaus may expand far beyond an efficient size. And they expand by squeezing the taxpayer. More money means more power, so bureaucrats do not have strong incentives to trim costs. Skimpy bureaucracies lead to grumpy bureaucrats.

Even if elected officials vow to slash the bureaucracy, they seldom muster the power to do it. Jimmy Carter and Ronald Reagan both promised and both failed. Government payrolls continued to climb during their administrations. They learned to sympathize with the czar who admitted, “I do not rule Russia. Ten thousand clerks do.” Although a political leader can order certain actions, only the bureaucracy can implement them. Sometimes bureaucrats may subtly refuse, hinder, or delay implementation, hoping the leader will retire, lose an election, or die. Often the men and women dressed in gray win.

Niskanen’s theory has some problems. He lumps all bureaucrats together the way Marx lumps all workers together, as if they all have overriding confluent interests. They don’t. One can draw a more complex model of bureaucracies. Who counts, after all, as the head of the bureau? The cabinet secretary? The senior civil servant? Might they sometimes gain political advantage by cutting the bureaucracy? During the first Reagan administration, Secretary of the Interior James Watt tried to emasculate parts of his agency. A more telling case concerns Caspar Weinberger. During the Nixon administration, he earned the tag “Cap the Knife,” for his thrifty overseeing of Health, Education, and Welfare. Later as Secretary of Defense under Reagan, Cap the Knife transformed into “Cap the Ladle,” turning the Pentagon into a gravy train. He couldn’t find the tools to cut Jell-O, much less a trillion-dollar budget. What accounts for Weinberger’s reversal? Why did Niskanen’s theory work only half of the time? Probably because Weinberger believed that one department was bloated while another had to expand to meet his president’s goals.
Niskanen’s model of bureaucracy is much more than half-baked, but it probably needs more time in the cooker.

Now, let us turn to Public Choice theories on elected politicians.

“Congress is so strange,” a Russian immigrant once observed. “A man gets up and says nothing. Nobody listens. Then everybody stands up and disagrees.” On the contrary, James Buchanan sees too much agreement in Congress. Politicians love to lash out at government for waste, fraud, and abuse. In the 1988 Democratic presidential campaign, Governor Michael Dukakis assailed the IRS for faulty tax collections; Gary Hart attacked a profligate Pentagon; and Rev. Jesse Jackson denounced tax loopholes for the rich. On the issue of cutting budget deficits, they nodded their heads in blissful accord.

At the same time that politicians unanimously decry waste, though, they vote to spend more money on programs that inflate the budget. From 1958 to 2006, the United States enjoyed a balanced budget only six times. According to Buchanan, politicians’ rhetoric collides with their voting records. They sound like statesmen yet vote like weasels. Some would say that the most important deficit in Washington is located along the spines and between the ears of the politicians. As Teddy Roosevelt put it, you could carve men with stronger backbones from bananas.

Buchanan does not simply vilify politicians, though he does that well. He searches for the forces that pressure politicians into acting hypocritically. In reality, the problem lies not in the particular individuals in Congress; the problem is systemic. The political system fosters budget deficits, Buchanan claims.

Let’s start by recalling the lesson of Keynes: During periods of prosperity, the budget should reach a surplus, as employment and tax revenues rise. During recessions, the budget should fall into deficit, as employment and tax revenues fall. Over the course of the business cycle, the budget should balance. Buchanan wants to know why, for forty years, we enjoyed prosperity without seeing budget surpluses.

The answer is rather simple and takes us back to Jeremy Bentham. Politicians want to please their constituents. People like pleasure and hate pain. Government programs are pleasurable; taxes are painful. Guess what people want from their representatives? High spending and low taxes, which usually translate into budget deficits.

Let’s fire a quick retort at Buchanan: If persistent budget deficits hurt the economy, don’t people feel pain and desire a balanced budget?

Buchanan replies that budget deficits do hurt, but the pain is indirect and diffuse. Compare the direct pain of a budget surplus to the indirect pain of a budget deficit. If we start with a balanced budget and wish to create a surplus, we may (1) raise taxes or (2) cut spending. Both strategies inflict pain directly. Higher taxes usually reduce private consumption. Slashing spending hurts beneficiaries of programs. Any benefits in terms of a
more healthy economy arrive later and only indirectly help the victims of higher taxes or lower spending. The victim must imagine how she will benefit in the future.

Now consider the budget deficit. We can create a deficit by lowering taxes or raising government spending. Both put smiles on the faces of taxpayers and beneficiaries. Deficits allow people to spend more on themselves. Yes, deficits may dislodge the economy, but, again, the effects are indirect: people must imagine the future and ask whether they will be affected.5

Buchanan’s explanation rests on people misjudging indirect, future effects. Too many people follow Albert Einstein, who said, “I never think of the future—it comes soon enough.” Buchanan would prefer that they follow the words of Amanda Wingfield in Tennessee Williams’ The Glass Menagerie: “The future becomes the present, the present the past, and the past turns into everlasting regret if you don’t plan for it!”

Because deficit spending ignores the future, it harms future generations, Buchanan asserts. In fact, he raises a moral question: Don’t deficits resemble taxation without representation? Congressmen today enhance their constituents’ present welfare by jeopardizing the welfare of their grandchildren. The unborn cannot vote. Yet each child is born with financial liabilities.

Buchanan’s point about future generations receives a strong rebuttal from the Rational Expectations school of thought, which we will address in the next chapter. Essentially, rational expectations theorists argue that people correctly weigh the future and magnanimously consider their offspring. As you might expect, this new school of thought incites even more controversy than the Public Choice school.

Of course the strongest rebuttal to Buchanan comes from the obvious fact that the federal budget deficit disappeared in 1997 and surpluses began piling up. How did this happen and does it doom the Public Choice model? In 1990, 1993, and 1997 Congress passed legislation cutting the growth rate of federal spending and (in 1990 and 1993) raising taxes especially on upper-income Americans. More important, though, revenue growth exploded, as a long and strong economic expansion pushed down the unemployment rate to levels that Americans had not seen since the 1960s. More workers on the job meant more people earning income and paying taxes. Likewise, corporate profits generated higher corporate tax revenues and sent the stock market rocketing. Between June 1995 and June 1998, the Dow Jones index of stocks doubled. As stock investors sold shares and “took profits,” they paid capital gains taxes. All in all, an impressive performance for the U.S. economy, at a time when politicians actually restrained themselves from going on a spending rampage.

Because the 1990s ended with a budget in surplus, should we tear up our portfolio of Public Choice research papers? Public Choice scholars were not surprised to see the budget surplus fritter away over the next few years. Even at the end of the 1990s, congressmen
started to feel that old hankering for pork. The highway bill signed by President Clinton in 1998 contained a huge amount of old-fashioned pork spending. One researcher calculated that for the price of the $200 billion highway bill, the U.S. could literally pave the streets with gold (gold-plating, that is). Instead of gilding the highways, the bill gilded the political careers of congressmen, who bragged about bringing their districts new funds for bridges, tunnels, ferries, and bicycle paths. Five months after passing the bill, 98 percent of incumbent congressmen won reelection. The 1999 budget bill included such corporate goodies as a $300,000 grant to study whether Kellogg’s Raisin Bran should qualify for a federal nutritional program.

Almost as soon as President Bush took office in 2001, Congress opened up the wallets of the American people, turned them upside down, and shook them hard. A $180 billion farm bill bailed out dried pea and lentil farmers, while resurrecting defunct programs for those mohair goatherders and bee-keepers. A $286 billion highway bill funneled almost $1 billion to 119 special projects in Alaska. A village with fifty residents received $223 million to build a mile-long bridge linking it to the bustling town of Ketchikan on the mainland. Another $231 million would build a bridge in Anchorage, specified in the legislation as “Don Young’s Way.” Who is Don Young? The chairman of the House Transportation and Infrastructure Committee.

The budget surplus of the late 1990s does show that Americans are not quite as ignorant and passive as the Public Choice advocates believed. Squeaky individuals like Ross Perot and bipartisan advocacy groups like the Concord Coalition effectively riled up voters throughout the country during the mid-1990s. Politicians suddenly felt scared that they would lose their jobs if they did not cut spending. A Republican Congress kept the heat on a Democrat president, until both sides of Pennsylvania Avenue compromised on spending cuts. The government would have kept on spending tax dollars if common voters had not voiced their anger at perennial deficits. The lesson is that sometimes “people power” does beat “public choice.”

In fact, during the 1990s budget-balancing broke out all over the industrialized world. Canada, Sweden, and Australia, which faced bankruptcy threats at the start of the decade, slashed government programs in order to regain their credibility. In Europe, European Union members signed the “Maastrict Treaty,” which obligated each of them to squeeze their deficits—or else lose their eligibility to join the new single currency program. Only Japan completely missed the boat, as a terrible recession bloated the budget to alarming levels. For the western world, though, the spirit of the times demanded fiscal austerity and permitted few flights of Keynesian fancy.

Social Security

The Social Security and Medicare debate offers another tasty example of where we hear a clash of interest groups fighting over the public fisc. Social Security got its start during the Great Depression, as a plan to help senior citizens maintain their dignity when they retired.
In exchange for paying a new tax on their wages, the government would keep old people from falling into poverty when they could no longer work. Since most people died before sixty-five, not many retirees actually collected at first. Two developments demolished the arithmetic. First, people started living much longer. Typically Americans retire in their sixties, but now live to almost eighty. Second, the baby boom generation flew off the population charts after World War II. As a result, during the next few decades, the United States will have many more retirees, but relatively fewer workers to support them. Currently, about 12 percent of the population receives Social Security. That number will jump to about 20 percent in the decades ahead. So who is going to support the baby boomers gone to pasture? Where will we come up with the estimated $27 trillion to pay promised benefits?

Many Americans wrongly believe that Social Security taxes have already been invested and have been earning interest that will pay those bills. Sorry. In fact, Congress created Social Security as a “pay-as-you-go” system, that is, most of today’s tax dollars go right out the door to pay for today’s retirees. The rest go into the federal budget to pay for other programs. True, there is a “Social Security Trust Fund,” but it is a stack of IOUs that the U.S. Treasury has given the Social Security Administration. When the baby-boomers hit peak retirement age around 2012, Congress will either have to cut spending, raise taxes or find some as yet un-identified pot of gold. Medicare beneficiaries face a similarly empty cupboard. No wonder Generation Xers feel the threat of huge tax hikes ahead, while baby boomers wonder whether they should have been kinder to their children and grandchildren. Perhaps this is why a public opinion poll showed that more 18- to 24-year-olds believe in UFO’s than in Social Security. After all, there still will be unidentified flying objects in the year 2100; Social Security is another question.

Some wisps of hope recently appeared. Namely, politicians can now speak freely about overhauling Social Security. Just a few years ago, it was known as “the third rail of American politics.” Anyone who suggested reform sizzled with the jolt of 42 megavolts of deadly power (42 million receive Social Security today). When Barry Goldwater mentioned the topic (in Florida!) during his 1964 presidential campaign, his advisers could hear the Lyndon Johnson landslide rumbling. Though during the 1980s Republicans whispered about Social Security in private, they were afraid that Democrats would pounce on them if word got out. Two forces have liberated policymakers to discuss reform. First, the budget debates of the 1990s have encouraged politicians that there is a “political market” for attacking deficits. Second, Americans began pouring their personal savings into the stock market during the 1990s, with success, except for the big slump in 2000-2002. They learned that over time equity investments tend to outperform bond investments. If so, why shouldn’t their Social Security taxes earn higher returns? The average two-earner family sees only about a 1 percent annual return on their contributions, compared to an average 9.5 percent for the stock market. If the government invested Social Security payroll taxes in the stock market, Americans might enjoy richer retirements, without taxing young workers so heavily.
Though Congress has not yet tackled Social Security, in 1998 some prominent Democrats such as Senators Patrick Moynihan and Bob Kerrey jumped onto the heretofore conservative bandwagon and proposed that workers be able to target some portion of their Social Security payroll tax for the stock market. Sure, there are risks, Moynihan argued. But it is a better risk than watching the entire system collapse as it becomes both arithmetically and politically impossible for young people to shoulder the burdens that baby boomers placed on them. President Bush attempted and failed to create widespread support for personal Social Security accounts, but at least he could discuss the proposal without being clobbered by voters and opponents.

Medicare, too, calls out for major reform, and is even more precariously financed than Social Security. Our health care system does not give retirees a big enough incentive to watch where the money goes. A Medicare card feels like you are wielding someone else’s credit card—literally, the credit card that belongs to other people’s children. Economists call this the moral hazard problem. Did you ever rent a car and decide to wash it before returning it? Have you ever been on vacation at a fancy hotel and instead of dipping in the pool, asked the concierge to get you a sponge, a long hose, and a bucket? Of course not. In fact, people treat rental cars less gingerly than their own, daring to parallel park in the tightest spots and stomping their foot on the accelerator to launch themselves up the freeway access ramp. Likewise, if Medicare is paying 80 percent of your bills, you might decide on a whim to drop by the podiatrist’s office for a pedicure. Instead of buying a $10 heating pad, you might spend $250 to talk to an orthopedic surgeon. These dynamics are not found only in Medicare. Employer-paid health insurance can lead to the same waste. A Rand Corporation study showed that when people are “free riders” on someone else’s policy, they rack up 45 percent more in medical bills. More striking—they don’t end up any healthier! Intensive care patients in Miami spend twice as much as those in Minneapolis, but do not come out any healthier. Note though, that where people pay out of their own pocket, for example, for laser eye surgery and for cosmetic treatments like Botox and teeth whiteners, prices have plunged, as medical providers have rushed in to create white-hot competition.

**Political Cycles**

Some Public Choice scholars have expanded James Buchanan’s approach and stated that politicians manipulate the macroeconomy in order to boost their reelection chances. According to proponents of this “Political Cycle” theory, during election periods politicians force down unemployment by inflationary policies. Inflation will eventually come but only after the election. A recession will cure inflation. And unemployment will be forced down again in time for the next election. Although many politically conservative theorists sympathize with this theory, a Polish Marxist, Michal Kalecki, was the first to present it, in 1943. The theory gained respect during the Nixon years, when monetary tools seemed to follow polling results rather than sound policy.
There seems no end to the embarrassments that emerge from Richard Nixon’s White House tapes. Nixon’s views on monetary policy were both shrewd and cynical. During his presidency, the Federal Reserve Board was headed by Arthur Burns, a pipe-puffing dandy who parted his hair in the middle and wore a pocket watch. Burns more than looked the part; he had sterling credentials, too: a Columbia professorship, a term as Eisenhower’s chief economic adviser, and was head of the National Bureau of Economic Research. Nixon cajoled and hectored, trying to convince Burns to goose up the money supply before the 1972 election. Nixon blamed his 1960 presidential loss to John F. Kennedy on a sluggish economy and did not want to risk a repeat. When Burns reported to Nixon that he had persuaded the Federal Open Market Committee to cut the discount rate, Nixon cheered, “Great, great . . . just kick them in the rump a little.” Nixon knew that monetary policy worked with lags. Though he urged Burns to stimulate the economy more than a year before the election. But in February 1972, he told the Fed chief, “I really don’t care what you do in April.”

Sure enough the money supply exploded in 1971, growing at over 13 percent pace, compared to just 7.4 percent in 1970. The stimulus sent the roaring economy to a blistering 7.7 percent growth rate during the election year. Unfortunately, inflation would soon roar, too. Nobody really knows whether Burns caved to White House pressure or just misread the needs of the economy. But the episode does teach a valuable lesson: Do not let the president close to the levers of monetary policy.

Since the Nixon-Burns days, the evidence for political cycles has grown skimpier. As we will discuss in the next chapter, fast-moving “bond vigilantes” make it tougher for central bankers and politicians to conspire. While serving in the White House of President George H. W. Bush, I saw missives from Treasury Secretary Nicholas Brady blazing across my desk on their way to Federal Reserve Chairman Greenspan. Brady and the president believed that Greenspan had let the money supply droop in 1991 and 1992. Greenspan proved himself quite independent of Bush. He eventually slashed rates, but too late to help Bush. In 1997, British Prime Minister Tony Blair and Chancellor of the Exchequer Gordon Brown built credibility for the Labor Party by declaring the Bank of England independent of the chancellor. Their move boosted the pound sterling in the eyes of global investors.

The Public Choice school literature expands each year, and the questions are intriguing. Why has the number of congressmen stayed at 435 although population continues to grow? Which congressional districts receive the most government grants? How do campaign contributions affect political programs?

Most economists regard the Public Choice school with skepticism. Even the strongest opponents, however, admit the truth of the school’s most important lesson: Do not assume that government takes economically prudent steps in the face of political opposition. Economic textbooks written in the twenty years following World War II pointed to market imperfections such as monopolies and pollution. Then they stated that imperfections may
be cured or avoided by government action. Then they described how government may theoretically act to assure efficiency. End of page. Public Choice theorists force us to ask: Will government actually do its theoretical duty, or will political pressures and incentives spoil the neat scenario? Just as the market may have imperfections, so may government. We must compare the realistic results of the market economy to a realistic prediction of the results of government actions. For too long textbooks compared a blemished view of the private economy with a squeaky-clean view of government. At long last we may admit that the only squeak in Washington comes from the subways, not from the Capitol.

**Why Didn’t Keynes Anticipate the Public Choice School?**

Despite its roots in Adam Smith, Knut Wicksell, and other nineteenth-century economists, the Public Choice School is a late-twentieth-century phenomenon. Why didn’t earlier economists develop any suspicions about the political system? In particular, why didn’t that genius Keynes, a promoter of government intervention, warn us about systemic government flaws? Either Keynes was politically native or nefarious—either he unwittingly promoted a faulty system or he knew but kept quiet. By looking once again at Keynes, a man caught between Victorian values and modern society, we can better understand the uniquely twentieth-century character of Public Choice theory.

**Keynes’ Prescriptions for Government Intervention**

Keynes succintly stated his position on the proper role of government: “not to do things which individuals are doing already . . . but to do those things which are at present not done at all,” for instance, promoting full employment by augmenting consumption and investment.8

Keynes harbored no desires to destroy capitalism. He thought Marx contributed nothing to economics and only trouble to politics. Yet he saw deficiencies in the capitalist system that could be mended by government action. In his very political and partisan 1929 pamphlet Can Lloyd George Do It? Keynes vigorously urged public works to relieve unemployment and blasted the “Treasury view,” which embodied neoclassic claims that government spending would only crowd out private investment rather than create jobs. The Marxist economist Paul Sweezy depicted Keynes’ approach as a “habit of treating the state as a deus ex machina to be invoked whenever his human actors, behaving according to the rules of the capitalist game, get themselves in a dilemma from which there is apparently no escape.”9

Keynes knew that a priori judgments on the “correct” size of the government were silly. Nonetheless, he argued that the state would have to guide consumption through income taxes and the interest rate. As early as 1925, Keynes realized that the modern state would need new types of administrative agencies: “I believe that in the future the government will have to take on many duties which it has avoided in the past. For these purposes Ministers and Parliament will be inserviceable.”10 New agencies ultimately answerable to Parliament
would, Keynes thought, carry out or at least influence two-thirds to three-quarters of total investment.

Keynes confronted his readers and audiences with few warnings. In a letter responding to Hayek’s The Road to Serfdom, which argued that increasing political involvement in economics finally leads to totalitarianism, Keynes tenaciously held that “we almost certainly want more” planning, not less. “But the planning should take place in a community in which as many people as possible, both leaders and followers, wholly share your own moral position. Moderate planning will be safe if those carrying it out are rightly oriented in their own minds and hearts to the moral issue.”11 Nonetheless, Keynes spent little time explaining how the public can tell whose heart is “rightly oriented” or whether the public would even prefer rightly oriented types to those who would promise more benefits.

**Cultural and Intellectual Influences on Keynes**

Can cultural and intellectual factors explain Keynes’ lack of caution? Our earlier study of Keynes described his Victorian upbringing. Roy Harrod, an Oxford economist and Keynes’ first biographer, refers to the “presuppositions of Harvey Road,” Keynes’ home in Cambridge. Though Keynes sometimes rejected these presuppositions for himself, he imputed them to others. What were they? They sound like a Boy Scout pledge: economy, moral soundness, public duty, and discipline. Keynes believed that the British clerisy generally followed these tenets.

For himself and a cabal of intellectual elites at Cambridge known as the Apostles, however, the old morality was mortally wounded by G. E. Moore’s Principia Ethica. Moore, a Cambridge philosopher, provided Keynes and a select group of friends with a new religion that savaged Aristotle, Jesus, Mill, and Kant. According to Moore, the highest goods were states of consciousness, not particular acts. Keynes interpreted Moore to say that the enjoyment of beautiful objects and of human intercourse took precedence over traditional moral acts. Keynes admitted that they bastardized Moore (ironically, Joan Robinson accused modern Keynesians of bastardizing Keynes), stating “what we got from Moore was by no means entirely what he offered us. . . . We accepted Moore’s religion . . . and discarded his morals.” Keynes also admitted that he and his friends saw little connection between having good states of mind and “doing good.” Their attitude recalls the Quakers who, it is said, came to the United States to do good and ended up doing very well. The pseudo-Moore approach appeared aristocratic. How did they know which states of mind were good: If a disagreement arose, they usually concluded that some people simply had heightened senses of judgment, “just as some people can judge a vintage port and others cannot.” Would general rules of morality ever bind them? No. “We repudiated entirely customary morals, conventions and traditional wisdom. We were . . . immoralists.”12 Perhaps this explains Keynes’ 1905 letter revealing his interest in economics: “I want to manage a railway or organise a Trust, or at least swindle the investing public.”13
In 1938, Keynes revealed that his “religion,” despite some regrets, was “nearer the truth” than any other. The issue is not whether the religion was good or bad or a bastardization of Moore. The real issue: Did Keynes contradict himself by embracing for himself a religion that exalted self-interested states of consciousness, while assuming that others would foolishly cling to the moribund morality from which he had happily escaped? He was either an elitist who assumed that others would not see the light, or he had contravened himself. Keynes had little trouble conceiving of himself as part of an elite. Who could disagree? Regardless, Keynes provided little reason for assuming that politicians and bureaucrats would not act to enhance their states of consciousness at the public’s expense in the same way that he apparently would.

Why didn’t Keynes worry about runaway politicians and bureaucrats? Two reasons are central. First, Keynes seemed to hold a Weberian view of politics and bureaucracy: The politician, although not bound by an absolutist Kantian ethic (fiat justitia ruat coelum—do good even if the heavens fall), is still bound by an ethic of responsibility—that is, consequentialism (salus populi suprema lex—the public good is the supreme law). He cannot ignore the consequences of flouting the public interest for private gain. Keynes also embraced Weber’s vision of the bureaucrat who faithfully and dispassionately follows orders. States Weber: “The honor of the civil servant is vested in his ability to execute conscientiously the order of the superior authorities, exactly as if the order agreed with his own conviction.” 14 Of course, as Weber stressed, this was an ideal type, and such purity was not likely to be found in reality. Nonetheless, Keynes often seemed to assume he was dealing with ideal types.

Second, Keynes absorbed the Harvey Road presupposition that the government would be ruled by an intellectual aristocracy, which would soar above crass self-interest and instead engage in highbrow debate about pressing social issues (over vintage port, no doubt). Keynes’ contact with government officials, Bank of England directors, and leaders of other prominent British institutions frequently resembled Oxford-Cambridge reunions. Though these representatives may not have been Apostle material, they were competent preachers for the cause of public good. No wonder Keynes proclaims in the General Theory: “The power of vested interests is vastly exaggerated compared with the gradual encroachment of ideas.”15 But Keynes never asks the classic question: Who will guard the guardians? Nor does he ask whether Cambridge and Oxford could produce enough Apostles, priests, and choirboys to fill all the positions he envisions and faithfully spread the gospel as the government expands.

Perhaps Keynes’ impressions of government were sound, considering the British civil service prior to World War II. If so, we can only blame him for not predicting that state officials would begin to act selfishly. Keynes saw many cases in which government officials refused to act in a politically expedient way. Time after time he saw civil servants stick to old beliefs and spurn new, attractive positions. In 1925, the British government, at the expense of unemployment, returned to pre- 1914 gold parity. A few years later Keynes denounced
the government for refusing to boost public spending. Why did they resist? Certainly not because high unemployment made them more popular, more powerful, or more wealthy. Keynes thought they had good motives but terrible economic convictions. Essentially, political leaders and civil servants believed the laissez-faire doctrine they had been taught. The highest hurdles were stubbornness and inertia, not overweening ambition. In letters and articles written in the depths of the Great Depression, Keynes accused ministers of clinging to maxims and watchwords that dated from before World War I. In the path of economic growth stood “nothing but a few old gentlemen tightly buttoned up in their frock coats, who only need to be treated with a little friendly disrespect and bowled over like ninepins.” The civil service also blocked progress. And Keynes announced that civil servants were more important than ministers for constructive action. In fact, “little that is worth doing can be done without their assistance and good will . . . The Civil Service is ruled today by the Treasury school, trained by tradition and experience and native skill to every form of intelligent obstruction. . . . They cramp our energy, and spoil or discard our ideas.” The serfdom nightmares of Hayek and Buchanan would seem silly to Keynes, for ministers and civil servants “spend their time, not in forging chains for us—far from it—but in finding plausible reasons for not doing things which public opinion almost overwhelmingly demands.” [emphasis added]16

Thus, Keynes sees government officials deliberately avoiding opportunities to increase their power and maximize votes through public spending. He never came close to warning of future abuse, other than drolly declaring that once the befrocked gentlemen abandoned the defrocked and defunct laissez-faire position, they would “[q]uite likely enjoy it . . . when they have got over the shock.”17 Public Choice proponents declare that they liked it too much and too often.

Keynes also demonstrated his academic rearing with his firm faith in rational deliberation. If political or academic foes disagreed with him, they must be thinking incorrectly. He could change their minds through persuasion. Keynes admitted that his faith was excessive and blamed Moore’s influence. Keynes confesses that “we completely misunderstood human nature, including our own. The rationality which we attributed to it led to a superficiality not only of judgment, but also of feeling . . . intellectually we were pre-Freudian . . . I still suffer incurably from attributing an unreal rationality to other people’s feelings and behaviour (and doubtless my own, too).”18 (Although, compared to today’s rational expectations theorists, Keynes looks like a swami mystic!)

Because he usually assumed noble motives and rationality, Keynes almost always attributed bad policy to bad logic (or at least habit based on bad logic, as with the “old gentlemen”). The Collected Writings bulge with letters accusing officials of implementing stupid and illogical programs, but never of venal or selfish acts. He called the stringent peace forced on the Germans after World War I a “serious act of political unwisdom.” When the Chancellor of the Exchequer restored the pegged gold value, Keynes asked why Churchill
would “do such a silly thing” and blamed misinformed experts. In 1928, he sent a pithy missive to Churchill along with an article:

Dear Chancellor of the Exchequer:

    What an imbecile currency bill you have introduced!

Churchill graciously replied that he would reflect on Keynes’ enclosed article.19

    Sometimes Keynes grew exasperated at officials who did not deduce correctly. On these occasions he would accuse opponents of lunacy, or he would desperately grope for reasoned explanations. Still, he did not question motives. As early as 1911 he wrote to his friend Duncan Grant: “You haven’t I suppose ever mixed with politicians at close quarters. They’re awful . . . their stupidity is inhuman.”20

Along with a faith in rational discourse, Keynes embraced faith in the power of persuasion. The golden rule of his faith was that he could persuade better than anybody else. The golden rule frequently proved right. Starting in the 1920s Keynes often fired off letters to editors of newspapers and magazines, including the Manchester Guardian, the Nation, and The Times of London. According to Lionel Robbins of the London School of Economics, Keynes replied to the tricky issue of removing temporary tariffs by stating: “I have never yet spoken on the problem.”21 Hayek frequently tells of an encounter a few weeks before Keynes’ death in 1946. Keynes assured him that if his theories, designed for the 1930s, ever became harmful, he would quickly change public opinion. According to Hayek, Keynes believed “he could play on public opinion as a virtuoso plays on his instrument.”22 Keynes himself reflected on his exaggerated assumption of human rationality and a “small but extraordinarily silly manifestation . . . namely, the impulse to protest—to write a letter to The Times, call a meeting in the Guildhall, subscribe to some fund . . . I behave as if there really existed some authority or standard to which I can successfully appeal if I shout loud enough—perhaps it is some hereditary vestige of a belief in the efficacy of prayer.”23

In sum, Keynes’ experiences and influences persuaded him that politicians and bureaucrats, though sometimes stubborn and often stupid, work for the public good as they perceive it. Furthermore, they err on the side of inaction. Finally, even if empty-headed, the public is open-minded and can be persuaded to the correct position. These principles drove Keynes away from Public Choice precepts. But if cultural and intellectual influences are not deterministic influences, we can still hold Keynes accountable for accepting them so fully.

**A Political Invisible Hand**

Perhaps Keynes did not question the motivation of politicians and bureaucrats because he implicitly embraced a political invisible hand that ensured a confluence between political self-interest and the public good. For example, a politician may advocate policy X only because it is popular and will maximize votes. But it may be popular because the public
correctly perceives its desiderata. Thus, the public gets what it wants, and what it wants is good. And the politician gets what he wants, even though he cared little about the act he performed.

Prior to World War II, a political invisible hand might have been viable. If so, Keynes’ political naiveté would have been irrelevant, for the government would only flout the public good out of conviction (as in the “Treasury” view) but not out of greed or venality. Greed would lead officials to the correct policy, or at least the popular policy. Machiavelli, whom Leo Strauss identified as the first modern political philosopher, redefined the term “virtue.” Whereas, to the medieval Scholastics virtue signified moral perfection, to Machiavelli it implied virtuosity, perfection in achieving a set of ends, regardless of justice, magnanimity, etc.24

Keynes’ portrayal of George, Clemenceau, and Wilson at the Versailles Peace Conference raises the issue of the political invisible hand. Few books depict so vividly such varied characters. In Keynes’ view, the world sent two virtuosos and one virtuous man to the summit. Clemenceau was “aesthetically the noblest” and most determined to press for a hard peace. Intellectually the subtlest, George was a “Welsh witch,” a goat-footed, half-human “visitor to our age from the hag-ridden magic enchanted woods of Celtic antiquity.” Wilson was a “muddled-headed old Presbyterian” yet morally the noblest. Despite such striking contradictions, each character in this play was motivated to promote his national interest, as expressed by his public. Clemenceau wanted to smash Germany’s ability to again surpass France. George wanted to impress the English citizenry with severe terms. Wilson wanted to achieve a magnanimous peace, much desired in the United States. Unfortunately, Clemenceau and George, the two virtuosos, were able to persuade Wilson that an austere peace was not austere but magnanimous. At the end, states Keynes, George realized the plan was too cruel, but “it was harder to debamboozle this old Presbyterian than it had been to bamboozle him . . .”25 Although each came to the meeting with completely different motivations, Clemenceau and George were led by a political invisible hand to serve their nations’ interests, as the respective publics defined it. The virtuous Presbyterian would have done so anyway.

If the political invisible hand loses its grip, however, Keynes’ political naiveté finally appears damning, and he might be blamed for not predicting this fatal slip. Why? Because ordinary, systemic forces lurk behind the slip. It is not simply a shocking, demonic act.

Why would political self-interest diverge from the public interest? As government expands into microtransactions through regulation, subsidies, tariffs, and grants, information costs rise not only for government, but for the public. That is, citizens who want to be informed about public spending and policy must invest more time and effort gathering information. For most citizens, the investment will be economically irrational, because the information costs exceed the benefits to them. One may spend an entire day investigating a program that awards 100 people $1 million. Yet the per capita value of eliminating or
augmenting the program may be about the same as the price of a bag of potato chips. The citizen who is not among the 100 and does not investigate is probably rationally ignorant. Thus, a trend toward government expansion is a trend toward separating the acts of politicians from the knowledge of the public. Officials can do more, both good and bad, without the public knowing. Such acts slip through the fingers of the political invisible hand.

The U.S. government accounts for about 25 percent of the gross national product. Furthermore, federal agencies and regulations permeate society. Since so many groups have access to the federal government, the costs of exploiting the political system have plunged. No one needs to stand on a soapbox and persuade a majority of fellow citizens or of the legislature to act. A social meeting with a few commissioners will do. A box of four seats at Yankee Stadium will do far more than a soapbox in Central Park.

Originally, checks and balances among branches of government and interest groups were supposed to prevent influence peddlers. James Madison’s Federalist Paper No. 10 argued that a constitution should make it unprofitable for a faction to exploit the political system for economic gain. But pervasive federal power has weakened Madison’s plan.

The political invisible hand loses its grip in a complex world. Democracy is not a precise political analogue of a free economic market. As Nobel laureate Kenneth Arrow taught, voting for a candidate is not equivalent to buying a product. Economists cannot design a logical political system that mirrors the market.\(^{26}\) In a democracy, voters do not buy a particular product, like a microwave oven. They buy a package—a candidate who they hope will usually vote as they would. In truth, the voter is not sure what she will get. Democracy is somewhere between a supermarket and a grab bag.

By advocating a substantial increase in public spending and intervention, Keynes indirectly weakened the grip of the political invisible hand, which exposes the danger in trusting the motives of officials. In Keynes’ time, public knowledge and long-standing rules helped enforce the good motives of civil servants. If Keynes envisaged any checks on political abuse, it was through the campaign process in which an administration would have to answer to opposition charges.\(^{27}\) This check certainly makes sense. Nonetheless, it ignores the power of un-elected bureaucrats to expand their influence regardless of the ruling elected regime, as well as the fact that attacking small programs (on a per capita basis) may not make for catchy campaign slogans.

The charge against Keynes resulting from his implicit assumption of a political invisible hand has both microeconomic and macroeconomic dimensions. On the microeconomic side, officials can twist spending programs and regulations for political self-interest when information costs to voters are high compared with benefits derived. These costs rise as the government expands operations. Moreover, to the extent that people do not see the harm from indirect effects of microeconomic transactions between the government and others, they discount the benefits of obtaining knowledge about government action. On the macroeconomic side, public finance will be prejudiced toward low taxes and high
government spending, again to the extent that voters undervalue the indirect costs and benefits of fiscal and monetary policy. The argument is probably stronger for the microeconomic abuses, as those depend more on rational ignorance than on irrationality or illusion.

**Verdict on Keynes**

If Public Choice theory is correct, Keynes was politically ingenuous. Even if Public Choice theory is only partially correct, Keynes still seems blind to the issues raised. Even his admirer Harrod conceded this. ²⁸

Yet based on Keynes’ experiences with the British civil service and the historical context, we can only blame him for not predicting political abuse of his program. Moreover, critics of Keynes should carefully separate the political/Public Choice critique from the critique of his economic theory. To point an indignant, distrusting finger at politicians does not successfully argue that Keynes’ economics was wrong. This would be like denying that water puts out fire, because firefighters are too lazy to leave their dart games. To the extent that Keynes’ economics was correct, he gave us water to extinguish economic fires. But he should have sounded a few more alarms.
CHAPTER XII

The Wild World of Rational Expectations and Behavioral Economics

Ready for a truly wacky-sounding theory? How about a theory that does not believe in involuntary unemployment? How about a theory that promotes dart throwing as a method of choosing stocks? How about a theory that does not believe the government can hurt or help the economy very much? What a bizarre ending to our study of economic history! We began with the mercantilists, who said government generally helps the economy. Then Smithians said that government hurts. Keynesians said government helps. Monetarists said government can help but often hurts. Public Choice economists said that government usually hurts. Now the Rational Expectations (or New Classical) economists laugh at all their predecessors and proclaim that government intervention is an illusion, like a magician’s trick, which cannot change reality very much.

To reach this startling conclusion, New Classical economists follow some tricky logic. When they finish, however, they have a neat model that is admirable for its theoretical beauty. Their critics, however, look scornfully at the pristine but unrealistic model, better suited for an art gallery than the Council of Economic Advisers.

The Old Guard of economists—the Tobins, Modiglianis, Samuelsons, and Friedmans—find their life’s work belittled by these newcomers, who trace their origins to a 1961 paper a young Carnegie Tech professor named John Muth. The youthful Rational Expectations movement attracts a significant proportion of young scholars, charmed by its mathematical precision and opportunities for new discoveries. Old Keynesians fear that the new scholars will leave them behind, just as they fifty years ago surpassed the classical teachers who refused to follow Keynes. The challenge to mainstream economics is to mine Rational Expectations for bits of truth and then add these to mainstream theory.

Let’s find out why no one completely dismisses Rational Expectations theory. Its first tenet states that all markets clear, meaning that prices always adjust simultaneously to get rid of any surplus or shortage. No gluts may exist. If fish produce too much caviar, the price will fall. If demand for labor falls, wages will plunge. Now, most economists agree that markets eventually clear, but monetarists and Keynesians allow for longer transitions. Keynesians point to “sticky wages.” Monetarists point to lags in the transmission of monetary policy. Baloney, say the Young Turks.

Second, they contend that people consider all available information in making economic decisions and continually update their models or expectations of the economy. Compare old-fashioned adaptive expectations with rational expectations. If people act adaptively, they look at the past behavior of variables and only gradually adjust their outlook. If prices have risen at 6 percent per year for the past few years, yet rise 10 percent this year, people
might expect prices to rise 7 percent next year, under the adaptive model, which heavily emphasizes past data. They wait for experience to knock them on the heads, rather than change their expectations on the basis of new information. What if they heard that the federal government had unleashed the money supply and fiscal spending for a wildly expansionary policy? Under adaptive expectations, they would not vary their predictions until they had seen hard evidence.

Suppose that the cartoon character Wile E. Coyote waits on the corner of Hollywood and Vine for a bus to take him home. Past experience teaches him to take two steps away from the bus stop at 5:30 P.M. every day, because every day at that time a five-ton anvil accidentally drops fifty stories from the roof of the Acme Anvil Company. One day Wile E. waits at the corner. The anvil falls fifteen minutes late and squashes him at 5:45. If Wile E. has adaptive expectations, what will he do the next day at 5:45? He will stand at the bus stop again, thinking that the anvil seldom falls at 5:45 P.M. Squashed again. Finally, after a week of flattening (as can only happen to cartoon characters), he may get the idea that the Acme schedule has changed.

What if Wile E. had rational expectations? After the first hit, he would walk up to the anvil factory as soon as he popped back into three dimensions, and find out what was going on. He would reformulate his schedule. He would forget the past data if new information made them obsolete.

John Muth, the shy, awkward man who sparked rational expectations, was raised in the Midwest and built his reputation on hogs. By studying hogs, Muth learned economics from the ground up and never seemed interested in the glory achieved by some of his glittering colleagues, who included Nobel laureates Herbert Simon, Franco Modigliani, Merton Miller, and John Nash, the subject of the book and movie A Beautiful Mind. Modigliani praised Muth's mind, but said that the bearded, slightly hunchbacked researcher “took pains to appear as an oddball.” At one point, while teaching at Indiana University's business school, his MBA students marched into the dean's office waving a petition to have Muth fired because he befuddled them with his brilliant but seemingly impenetrable mathematics.

What in the world did hogs have to do with higher math? Before Muth came along, most people believed that hog markets suffered wild, irrational booms and busts. When bacon was expensive, every farmer seemed to respond by raising more hogs. Then all the hogs would simultaneously stampede onto the market, sending bacon prices into a tailspin. Now faced with low prices, farmers would purportedly stop raising hogs, which once again led to a shortage and expensive bacon. “Hogwash!” Muth concluded. He dug up data on hog prices, and showed that farmers were not so stupid as to assume that today's high prices would guarantee high promises tomorrow. Farmers were rational, Muth said, disproving John Kenneth Galbraith's view that farmers had strong backs and weak minds.
If people have rational expectations, they will not make systematic mistakes. They may be fooled or surprised once, but they will work to prevent a second error. As Star Trek’s engineer Scotty put it, “Fool me once, shame on you; fool me twice, shame on me.”

**Tossing Darts at Brokers**

The stock market provides the most persuasive evidence of rational expectations. Academic economists report that the stock market almost instantaneously absorbs information. In other words, once information becomes public, share prices instantly reflect it. If you read in yesterday’s newspaper that Sears expects a good year, you’re too late to take advantage of the information. Sears stock will have risen immediately on the basis of next year’s outlook, and information that everyone has is useless. In another example, suppose you cleverly observe that millions of college students flock from Boston to New York right before Thanksgiving. You discover that Kiddy Airlines carries many of the students. In September, two months before the Thanksgiving rush, you buy Kiddy stock, expecting that in November the price will sky-rocket. Dumb move. The price of Kiddy stock already reflects the expected profits during Thanksgiving. Everyone knows that Thanksgiving is a good time for Kiddy. And prices are based on the expected profits and dividends, not just current financial data.

If this model, called the Efficient Market Hypothesis, is correct, you cannot beat the average return on stocks by religiously following companies, reading financial returns, or tracing past price movements. The market already efficiently estimates the future returns. Stocks cannot be “overvalued” or “undervalued” (unless just about everyone misunderstands some characteristic of the company or there is undisclosed information). The market price becomes an infallible icon, until new information justifies a new price. (Nonetheless, the stock market “crash” of October 1987 and the collapse of technology stocks in 2000-2002 probably indicate that primordial “animal spirits” still lurk beneath the crisp white shirts of stock traders.)

You’d probably do just as well to choose a stock by throwing a stockbroker against a dart board as to listen to his advice—and you’d save money. Here is a plan, consistent with the Efficient Market Hypothesis, for doing as well as famous stock advisers: Place two bowls of dog food in front of your dog—one with the name IBM glued on the front, the other with Mobil. Now buy stock in the company that the pet goes to. If she isn’t hungry, place your money in a corporate bond fund.

The snorting bull market of the 1990s, which pushed the Dow Jones average from 3,500 in 1993 to 11,700 in January 2000, left money managers in the dust, as passive “index” funds outperformed almost every professional stock-picker. By the time people pay for advertising expenses, research costs, and commissions, the vast majority of mutual funds return a little bit less than a big dart board. Paul Samuelson long ago suggested that “most portfolio decision makers should go out of business—take up plumbing, teach Greek. . . .” Of course, according to the Efficient Market Hypothesis, a bad portfolio manager would not
muck things up too much (since it takes extraordinary ineptitude to perform far worse than
the proverbial dart-thrower), whereas a bad plumber could do some real damage!

Plenty of brokers and publicists rave about their predictions. Careful studies uncover little
reason to believe them.\(^3\) Sure, some may enjoy lucky streaks. But Las Vegas bettors
sometimes beat the odds also. The point is not that brokers usually lose money. The point is
that they do not consistently beat the average. Even when some superstar analyst discovers
a winning way to interpret data, others follow, and the method becomes obsolete. So why
pay extra money in commissions and financial advice for an average return? You might as
well obtain a well-diversified portfolio that balances various risks, or invest in a broad
market index that moves with the market average.

Rational Expectations theorists, including 1995 Nobel laureate Robert Lucas and Thomas
Sargent, state that government has little power over markets. They start with the stock
market and then analogize to wider markets in the economy. What if the government tries
to temporarily raise the price of Kiddy Airlines by buying shares? The original price
represents the current, “correct” feeling about future earnings and dividends, which would
give a fair rate of return. If the government buys stock and bids up the price, shareholders
will immediately sense that the stock is artificially overvalued and will sell. If the
government dumps its stock, forcing down the price too far, investors will buy, sensing that
the stock deserves a higher price. In the end, no matter what the government does, the
price will return to its “correct” value, unless new information convinces investors that a
new price is justified.

Before applying the analogy to macroeconomics, let’s examine two important points.
First, note that the Efficient Market Hypothesis does not include inside information, secret
knowledge of future profits or losses that company officials may have. Investors with
nonpublic information may achieve higher than average gains. This seems logical but unfair.
The poor slob without a seat on the board of directors will not reap the same gains as
insiders. For this reason, insider trading is illegal. The Securities and Exchange Commission
monitors stock trading by insiders and establishes penalties for illegal activity, including
prison terms and the “disgorging” of profits. Of course, not everyone gets caught, nor do the
laws cover everyone with inside information. Should they?

Suppose Fido, Inc. surreptitiously plans to take over the Spot Corporation by buying its
stock. Fido managers will run Spot more efficiently, thus boosting the value of Spot’s assets.
For this reason Fido is willing to pay a higher price for the stock. Shareholders of Spot who
sell their stock will earn lots of money. The takeover plan is a secret. Only the presidents and
vice presidents of Fido and their attorneys know. Naturally, if Fido’s chief officers personally
buy Spot stock before the takeover attempt is publicized, they can be arrested for insider
trading. But what if the employee of a printing press that prints the forthcoming publicity
documents buys Spot stock before the public announcement? Should he be considered an
insider and punished? According to the Supreme Court, no.
Ironically, when Vincent Chiarella, the printer acquitted by the Supreme Court, was asked whether Ivan Boesky, who was convicted of insider trading a few years later, should be punished, he said: Throw the book at him.\(^4\)

A second important point about the Efficient Market Hypothesis brings up another irony. Stock picking is ineffective because so many people engage in research and stock analysis. The current prices “correctly” reflect expectations because so many people buy and sell on the basis of available information. You have little chance of consistently interpreting the information in a superior way. If no one but you researched, however, you could outpredict a random approach. Therefore, the advice of Efficient Market believers to select randomly becomes itself obsolete if everyone takes the advice!

**Economists on Wall Street**

Until fairly recently, Wall Street managers and economists found little to talk to each other about. After all, economists like Samuelson were dousing portfolio managers with frigid water, telling them to take up plumbing. While Princeton professor Burton Malkiel wrote a book espousing the efficient markets hypothesis entitled *A Random Walk Down Wall Street*, Wall Street titans told economists to take a hike. The movers and shakers replied that academicians were simply too timid to bet on winners and losers in the financial markets. And most of them, outside of Keynes, did not succeed when they did get the nerve to roll the dice.

While some economists were deriding Wall Street’s stock-picking powers, others were devising inventive ways to design portfolios and to put a value on companies and stock options. These were extremely difficult technical challenges, requiring advanced mathematics and economics. The problem for the researchers, though, was that in the 1960s and 1970s, no single discipline wanted them. Economists thought their work was too technical, and mathematicians thought their research too mundane. No matter, in 1990 the Nobel Prize committee awarded the Economics Prize to three path-breaking financial economists who actually sought to help Wall Street, rather than tear it down.

In 1952, a young graduate student named Harry Markowitz began a revolution in finance by publishing a paper called “Portfolio Selection.” The paper built an analytical framework for a simple aphorism, “Don’t put all your eggs in one basket.” At first this seems so obvious that you might be inclined to deliver the Nobel Prize to Mother Goose’s or Aesop’s heirs. Five hundred years ago, Shakespeare’s merchant of Venice told us that

My ventures are not in one bottom trusted,
Nor to one place; nor is my whole estate
Upon the fortune of the present year;
Therefore my merchandise makes me not sad.

Still, this folk wisdom was little more than a wives tale or a rule of thumb, until Markowitz put his mind to work. In fact, the great Keynes rejected the notion, arguing that a big
investment in a company you know well is safer than many smaller investments. Markowitz did not simply show that more is better; that a portfolio is safer with five airline stocks. He demonstrated that the kind of stocks should be diverse. Your investments should truly be diverse; that is, not correlated with each other. Better to own USAirways and Johnson & Johnson, rather than two airlines or two pharmaceutical stocks. Despite initial doubts, Wall Street has been following Markowitz’s lessons for the past thirty years.

It’s not easy to be a pathbreaker, though. Markowitz tells how Milton Friedman worried Markowitz when the graduate student had to defend his dissertation. Markowitz had been telling himself, “I knew this deal cold. Not even Milton Friedman can give me a hard time.” A few minutes into his defense, though, Friedman piped up, “Harry, I don’t see anything wrong with the math here, but I have a problem. This isn’t a dissertation in economics, and we can’t give you a Ph.D. in economics for a dissertation that’s not economics. It’s not math, it’s not economics, it’s not even business administration.” Then others spoke the same complaint. Markowitz sat in the hall to await the committee’s decision. Minutes later, a senior professor walked into the hallway, looked him in the eye and said, “Congratulations, Dr. Markowitz!”

Markowitz’s co-laureates in 1990 were William Sharpe of Stanford and Merton Miller of the University of Chicago. Sharpe designed the Capital Asset Pricing Model, which warrants at least one chapter in every book on corporate finance, as well as the concept of “beta,” which helps investors figure out how risky a particular stock may be. In particular, beta tells you whether a stock will move in sync with the market as a whole. Carnival Corp., which owns Carnival Cruises, has a beta of 1.0, which means that if the New York Stock Exchange rises by 10 percent, Carnival will likely climb 10 percent too. That makes sense since a strong market signals a strong economy, and people can afford to take cruises if they are feeling richer. Other kinds of stocks may have a low beta. People will keep buying candy, even if the economy sours. No surprise, then, that Tootsie Roll has a lower beta of just .69, meaning that if the overall market falls by 10 percent, this candy company will slip by just 6.9 percent. When people look to diversify their portfolios, they keep track of the beta calculations to make sure that all of their stocks do not go up—and down—together.

Merton Miller achieved his fame by studying the way corporations organize themselves. Prior to Miller’s work with Franco Modigliani (a Nobel laureate in 1985), many corporate treasurers thought that their firms would look more profitable if they funded their operations by issuing more bonds and selling fewer shares of stock. That way a smaller number of shareholders would split the profits among themselves. Miller and Modigliani showed, though, that no matter how you slice up the ownership, the total value of the firm depends on the future earnings. If, for example, the firm got loaded up with debt (issued a lot of bonds), lenders would demand higher interest payments, which would offset the benefit of having fewer shareholders.
Miller offered a colorful analogy that begins with a tub of whole milk. The farmer could sell the cream separately, which fetches a higher price. But then he would be left with only skim milk, which sells for less. The cream plus the skim would bring the same total revenues as the whole milk. A tub of milk is a tub of milk, no matter how you mix it. Likewise, a stream of corporate profits is a stream of profits, no matter who you pay it to.

By focusing their economic training on financial markets, the three 1990 Nobel laureates enriched Wall Street, and did not do so badly themselves! Sharpe and Miller have consulted with many of the leading firms on Wall Street. John C. Bogle, chairman of the famous Vanguard Group of mutual funds, admonished investors not to ignore the economists: “While there is a lot of witchcraft in the academic lore . . . the most solid academic thinking, however complex, abstruse . . . will find its way into actual practice, and into the investor marketplace as well.”

Alas, even Nobel laureates must learn humility. The two 1997 Nobel laureates, Robert Merton and Myron Scholes, who won for their work in valuing financial derivatives, joined a high-flying investment group called Long-Term Capital Management. Their fund crashed in August 1998, disrupting financial markets throughout the world. The firm had recklessly borrowed far too much money and placed massive bets that world interest rates would move closer together. They bet wrong and racked up billions of dollars in losses. Long-Term Capital proved not so durable after all, losing its capital within days. Can we blame Merton’s and Scholes’ Nobel prizes? Possibly. After all, the banks that lent Long-Term Capital so much money felt confident such luminaries and their illustrious partners would not misjudge risk. Einstein may have been the greatest scientific mind of the century, but you probably would not have wanted him to change your radiator fluid. Likewise, people having Nobel prizes does not mean you should hand over your money to them.

The Lucas Critique

Before disputing Rational Expectations theory, let’s follow its striking implications for the macroeconomy. Remember that rational actors continually update their model of the economy. Therefore, the first lesson is that econometric models are obsolete because they are based on past data and statistical models cannot predict the effect of a new government policy. For example, if the government finds a stable, historic relationship between baseball games and GDP and therefore attempts to raise GDP by increasing the number of baseball games, economic actors will see this policy as new information and refine their model. Thus, their old behavior provides a poor basis for creating new policy. This implication is known as the Lucas Critique.

Lucas, a professor at the University of Chicago, proved to be too good a teacher of rational expectations. When the Nobel committee in Stockholm announced his prize in October 1995, his ex-wife’s lawyer revealed that she had foreseen his possible winning. Seven years before, she inserted a clause in their divorce settlement to claim half his Nobel
prize money, should he win. That clause, based on her rational expectations, was worth $500,000.

Following the Lucas Critique, Robert Hall submits that mainstream models of consumption that rely on past income, wealth, interest rates, and inflation fail to predict as well as a simple model with only two factors: last year’s consumption and a random variable. Hall argues that the only difference between next year’s and this year’s consumption level can be explained by random surprises, that is, new information. 9

The second lesson trashes the government’s stabilization policy: Only a surprise strategy has any effect. Suppose the economy tumbles into a deep recession marked by high unemployment. Mainstream economists would likely urge an expansionary policy. According to most economists, higher aggregate demand would lead to higher output and more hiring, and the economy would climb out of the doldrums.

Not according to Rational Expectation theorists. They argue that actors have learned that the federal government always leaps in to cure recessions by boosting demand. Rather than allow their prices to fall during the recession or raise their output, therefore, firms will simply raise their prices. They anticipate government policy. Since higher demand is just around the corner, they have learned not to let prices fall in a recession. It is as if the government passed a law that whenever unemployment reaches 7 percent, the Federal Reserve Board will press on the monetary accelerator. As evidence for their argument, theorists show that recessions prior to World War II saw prices fall, whereas post-World War II recessions, under the anticipation of demand-side responses, saw more stable prices. The Employment Act of 1946 guaranteeing maximum employment virtually notified firms that Uncle Sam always comes to the rescue. In sum, if Uncle Sam does what he is expected to do, he ends up doing nothing. Only surprise moves will affect the level of output.

Imagine how this theory shocks Keynesians and monetarists. Their advice appears as useless as the comedienne Gracie Allen’s absurd offer to solve the California-Florida border dispute.

Here’s another shocker. If this theory is right, the Federal Reserve Board should find it easy to reduce the inflation rate. Why? Under mainstream approaches, a contractionary policy will first lead to a recession and finally to a reduction in inflation. Under rational expectations, though, if a credible Federal Reserve Board announces that the money supply will grow at 0 percent, people will automatically expect lower prices and reduce their prices and wages. They will automatically accept a lower inflation rate based on the Fed’s policy. Since they do not have adaptive expectations, they need not see a wrenching recession before they reduce their price predictions.

Now that Rational Expectations has thoroughly insulted Keynesians and monetarists, let’s briefly look at the barbed arrows they shoot at Public Choice economists. James Buchanan maintains that politicians foster deficit spending and therefore cheat future generations.
Bruno Frey, another Public Choice economist, maintains that political cycles exist in democracies, that politicians manipulate inflation and unemployment in order to win elections.

Both of these claims clash with Rational Expectations theory. First, take political cycles. Say politicians try to toy with policy tools in order to lift election chances. According to Rational Expectations, voters will catch on after the first attempt. They will figure out that a booming economy in an election year presages high inflation, and they will take steps that will spoil the false prosperity, for they will quickly learn that the government will slam on the brakes after the election. This explanation makes sense and probably explains the rather flimsy evidence for consistent political cycles. As for persistent budget deficits, Harvard economist Robert Barro argues (on behalf of Rational Expectations theory) that investors and savers calculate future burdens into long-term interest rates. Higher long-term interest rates surely affect the performance of the economy in the present. Thus, future aspirations and expectations are actually represented in today’s capital markets. Barro’s argument actually descends from David Ricardo, who noted that public debt and taxes are quite similar, since rational people know that the debt will have to be repaid at some point in higher taxes. Therefore, government bonds used to finance deficits change future expectations about taxes. Buchanan would respond by noting that future generations have no political voice, even if they have an indirect voice in the bond market. After all, Buchanan sees the issue as a moral as much as an economic question.

Incidentally, Rational Expectations theorists can muster evidence that people catch on to political tricksters. Consider Margaret Thatcher in the early 1980s, who pledged to reduce the British budget deficit and even raised taxes in the middle of a recession in order to keep her promise. Might her two re-elections show that Britons had figured out and rejected the free-wheeling policies of the old Labour Party?

The Rational Expectations professors get an assist in the real world from “bond vigilantes.” What is this notorious-sounding gang? They don’t carry guns or knives, but they can make a country’s finance minister tremble in his boots. Bond vigilantes are traders and investors who buy and sell government bonds based on a country’s economic performance and outlook. They can play a useful role in disciplining reckless governments. In the early 1990s, bond and foreign exchange traders looked at Sweden and saw a weak economy, a huge trade deficit, a bloated government sector, and a currency that was so strong that Swedish exporters could not compete abroad. In a few years, public debt had doubled and the deficit had multiplied tenfold. Sweden was teetering. Vigilant traders foresaw the country hurtling toward a future in which it could not afford to repay its debts to the rest of the world. Skandia, a giant Swedish financial firm, announced it was “boycotting government bonds in light of the record budget deficit and fast-rising debt.” Bond and foreign exchange traders outside Sweden began dumping Swedish assets and driving up interest rates, and frightened the government into radically restructuring its finances. Faced with so many forward-looking traders, the government slashed the deficit from a mind-
boggling 12 percent of GDP in 1994 to 2.6 percent in 1997, and then to an actual surplus in 1999. Since the mid-1990s, Sweden has looked like a ferocious competitor in international markets. Give the bond vigilantes some grudging credit.

**The Mainstream Strikes Back**

Finally, it is time to lash back at Rational Expectations theory, and they do deserve plenty of lashes. Almost every economist feels insulted by the upstarts. We will first discuss some theoretical difficulties and then turn to real economic events.

Rational Expectations theorists can be an intimidating, frustrating lot to argue with. Like Koran-thumping fundamentalist Shi’ites, they have a quick, adamant answer for any question. Their works contain many freaky assumptions such as instantaneously adjusting markets and superhuman capacities to absorb information. If we grant these assumptions, the theory appears impenetrable. How can we attack? To demolish an economic model, we must do more than laugh at unrealistic assumptions. As Milton Friedman (following Karl Popper) argued, the true test of a model is in its predictions, not its scrupulously faithful depiction of the actual economy.  

Rational Expectations theory predicts that government stimulus does not spur the economy and that government contraction does not hurt. Let’s start with the latter. How does 10.6 percent unemployment in 1982 sound? Following a monetary squeeze in 1980 and 1981, the economy plummeted into a recession. Following a similar crunch in 1975, the economy also slid downhill. It took severe unemployment rates to drive down inflationary expectations in those periods. Lucas and his cohorts might respond by deeming the monetary collapse a “surprise.” “Who knew whether the Fed would stick to its tight intentions?” they might ask. Despite the rebuttal, it took quite a few long, depressing fiscal quarters before people adjusted their inflationary expectations. Rational Expectations theory is hollow if it can escape criticism by calling every economic event a surprise.

How about the government spurring the economy? If Rational Expectations theorists are right, tax cuts will not affect consumption when they are implemented. As soon as the tax bill is signed, people will adjust their consumption, even if the actual cut comes years later. Yet the Kennedy and Reagan tax cuts showed consumption stable and then rising after implementation. Alan Blinder, a Keynesian from Princeton, finds this snub of fiscal policy by the Rational Expectations theorists especially annoying: “Barro once said to me that there isn’t any evidence in the world that fiscal policy is effective. Just open your eyes and see episodes of tax-cutting and government spending increases. How about World War II? That had big effects on output.” Blinder also blasts the claim that markets always clear: “[T]hat also has to be ridiculous. Somehow, some people are able to look at the world and not see involuntary unemployment. I think I see it all over the place during cyclical downturns. I also think I see unsold goods all over the place, like automobile lots.” Can Rational Expectations defenders explain with a straight face the Great Depression as twelve years of “new,” surprising information?
Why do most economists tend to agree with Rational Expectations theorists when they talk about the stock market, yet explode in disagreement when speaking of the macroeconomy? The fact is, the stock market is a more efficient market than most others. It is quite liquid—one can buy and sell easily. Transaction costs are few. An investor may even use a discount broker to handle his or her purchases. In contrast, real markets for goods and services show more complexity and rigidity. Can you quit your job as easily as you can sell stock? Can a corporation fire employees, close down a plant, or build a new plant as quickly and easily as one can buy and sell shares? Of course not.

In real markets, contracts play a large role. They increase the level of certainty regarding the nominal price of labor, capital, and equipment. But they reduce the degree of liquidity and flexibility. Even if Kiddy Airlines expects prices and salaries to fall, it may be bound by three-year union contracts to keep up salaries. Even if its managers have rational expectations, contracts lock them into an adaptive path. Critics of Rational Expectation actually ask two questions: (1) Do people have rational expectations rather than long-standing habits? (2) Even if they do, can they act as adroitly as they think? To the extent either answer is no, Rational Expectations theory incorrectly portrays the economy.

**Behavioral Economics**

Psychologists have also eagerly piled onto the stack of bodies trying to bury Rational Expectations. You can understand the eagerness of psychologists to jump in. After all, if people were perfectly rational, you would not need so many psychologists. With a great faith in reason, Immanuel Kant actually suggested that the insane should be tutored by philosophers. The insane reason badly. Therefore, experts in sound logic and reasoning would help them most. Since Kant’s time, we have learned that when people are so deluded that they cannot reason clearly, they likely have gross emotional problems or, perhaps, chemical imbalances. Sitting them in a room with a Kant or Descartes might drive the philosopher crazy, rather than help the patient. Just as Kant may have over-stressed the capacity of rational thought, so too might some economists. Let’s say you are shopping for a new camera and discover that the ABC store sells the same model as the XYZ store, but charges $200, which is $10 cheaper than XYZ. Most people will drive an extra mile to save the $10. Now let’s say you are buying a new car, and discover that the ABC dealership charges $30,080, which is $10 more than the XYZ dealer. Most people would ignore the difference. But $10 is $10, the psychologists point out—why should $10 off a camera lead you to drive around the block, while $10 off a car’s price does not register on your brain waves?

Two Israeli researchers who started developing their ideas while serving in the armed forces in the 1950s compiled a virtual encyclopedia of irrational economic behavior, based on interviews and real experience. Daniel Kahneman, who decades ago designed a psychological screening test for the Israeli army, and Amos Tversky showed that people will quickly switch from risk-averse to risk-seeking. They began developing their theories while
working with the trainers of Israeli fighter pilots. Here is an example of quirky but common economic thinking: A survey revealed that people would prefer to let inflation rise, rather than permit the jobless rate to climb from 5 percent to 10 percent. Yet, if the question instead asked whether they would prefer higher inflation rather than let the employment rate fall from 95 percent to 90 percent, they said “no.” The two choices are the same; only the answers are different.

Likewise, another experiment asked participants how they would prefer combating an Asian disease outbreak. Program A would save two hundred people. Program B would have a one-third chance of saving six hundred and a two-thirds chance of saving nobody. Seventy-two percent of the respondent prized the certainty of Program A. People like certainty. Behavioral economists have discovered that people hate to lose and sometimes feel paralyzed into standing in place. Stock market investors hate to sell their shares at a small loss, even when they are warned that big losses could come. They may become emotionally attached to their stocks, their homes, and their jobs.

A modest man who died in 1996, Tversky said that he examined things that every used-car salesman and advertiser already knew. How questions are semantically or mathematically framed can mean the difference between a best-seller and a flop. Tversky appeared on the front pages of newspapers in 1988 when he disproved the “hot hand” theory of basketball, demonstrating that a player making a basket did not have a greater chance of getting the next ball through the hoop. He examined every basket that the Philadelphia 76ers had scored in the past year and a half. A last word on Tversky and decision-making. A true war hero, Tversky was a nineteen-year-old lieutenant in 1956 when a young soldier placed a grenade at the base of a barbed wire fence and then “froze” in place, literally lying on top of the explosive, unable to get himself free. Knowing that the bomb would explode within seconds, the future expert on risk ran to the young man, picked up his body and threw him to safety, just as the explosive burst, injuring Tversky. For that, the Israeli government awarded him the highest military honors.

For quite a few years, Richard Thaler, currently a professor at the University of Chicago, had described economic anomalies in the Journal of Economic Perspectives, which kicked off many classroom and faculty meeting discussions. But when the Nobel committee awarded its 2002 prize to Kahneman, behavioral economics instantly became a star subject, attracting many more graduate students and corporate benefactors. A key topic has been “intertemporal choice,” how people value the future. Behavioral economists suggest that people discount the future too much. They want instant gratification, which may lead them to ignores their shrinking retirement savings and their expanding waistlines. Behavioral economists point out that about one-third of American workers have ignored their company’s 401(k) retirement savings plans, many of them leaving free money on the table because the employer would have matched their contribution. Using the research of behavioralists, in 2006 Congress passed and President Bush signed a law making it easier for companies to set up automatic enrollment. Previously, workers had to actively choose to
participate. Now, eligible workers are automatically enrolled, unless they actively opt out. Rational Expectations thinkers do not spend much time worrying about inertia; behavioral economists do.

Intertemporal surveys can certainly confound. David Laibson, a Harvard behavioral economist, says that if you ask people whether they want chocolate or fruit today, they will say “chocolate.” But if you ask them what they would order for next week, they respond “fruit.”\(^{17}\) We will read John Grisham’s thrillers on the beach today; someday we will wade through Proust. To the behavioral economists this is a problem. Nonetheless, a study showed that when you ask those old people who displayed discipline whether they are happy that they ate less chocolate and more bran-filled granola, they shout “no!” In retrospect, they wish they had “lived it up” even more!

Should the psychological games and quizzes that Kahneman and Tversky uncovered lead us to throw away all economic theory, and replace the Federal Reserve Board with the American Psychological Association? Probably not. Mainstream economics need not assume that everyone is rational all of the time—instead it assumes that economic forces will, over time, push people and institutions toward more rational behavior.

While the behavioral economists may be right that many people grow irrationally attached even to their losing stocks, professionals do not get giddy over their losers. Eventually, the sharp-shooting, bloodless pros trample the amateurs, teaching the amateurs one of two lessons: Get out of the game, or get rid of your emotional attachment.\(^{18}\)

Another investment example will help here. During the early 1980s, some researchers discovered that shares in small companies seemed to outperform stocks in big companies, delivering greater profits to investors. That sounded like an irrational result, confounding the Efficient Market Hypothesis. Yet since the time of those findings, so many people have piled into small stock funds that during the 1990s they lagged behind bigger stocks. Rational investors looking for a bargain corrected the irrational historical trend.

Using the insights of behavioral economists, we could barbecue the bold Rational Expectations school of thought till it was burned crispy. But it deserves better. If we relax assumptions about full information and magically clearing markets, we are left with several ideas that mainstream economists are currently trying to graft onto their standard frameworks. People do catch on to political and economic tricks after a while. People will refine and discard previous expectations faster than a gradual adaptive model would depict. The challenge is to include these insights while recognizing the problems of contracts and imperfect information.\(^{19}\)

In their radical voice, Rational Expectations theorists sound like they just leaped off the pages of Marvel comic strips. If one assumes that people always act fully rationally, why not also credit them with X-ray vision and the ability to fly? Surely, the planet Krypton never had stagflation. In the radical form, Rational Expectations theory gives us a model too perfect for
the real world. We certainly can’t ignore the discrepancies. As James Tobin put it, using this pristine theory to explain the world is like looking for a lost purse only under the streetlamp.\textsuperscript{20} The problem is that the lost purse usually lies in the dark. And while you futilely bend down in the mesmerizing light of the streetlamp, you’ll probably be bopped on the head by reality.\textsuperscript{21}
CHAPTER XIII

Dark Clouds, Silver Linings

We have made a long run since Adam Smith. So long and so fast that it’s like rollerskating past centuries of masterpieces in the Louvre with just enough time to flash a puzzled Mona Lisa smile. Pity the poor economist. He is expected to cull the “truth” from the twisted tour of history and then confidently counsel presidents.

The “truth” is that economics befuddles even the sharpest mind. To speak boastfully invites punishment. Brash economists would profit by taking Prometheus’ place and have eagles pick at their livers until they learned humility. Why does economics stump so many and scare off even more? Unlike biologists, economists cannot conduct scientific experiments with carefully monitored control groups. Of course, not all natural sciences have control groups. Astronomers can no more harness a sample of moons than economists can manipulate a random sample of homemakers. But at least astronomers do not have to worry that planets will suddenly act whimsically, as consumers might. Astronomers have a pretty good record of predicting when Halley’s comet will return. Economists have a pretty lousy record of predicting household savings rates. In a joke from the Soviet Union, a man asks, “Was communism invented by biologists or politicians?” “Politicians, of course. Biologists would have tried it out on rats first.” Unfortunately, rats cannot help economists very much either. Rats may have circulatory systems similar to human beings’, but economics is more a matter of mind than anatomy.

Economics is not, as Adam Smith and some of his rationalist successors tried to depict, a science of precise laws. Tendencies, maybe. Higher output usually means lower prices, except when Veblenesque goods enter the scene. A higher money supply usually means lower interest rates, except when fears of inflation push interest rates higher. Stock prices usually represent rational predictions of future cash flows, except when “animal spirits” panic or excite investors into dramatic swings. Investors usually take risks until the marginal benefits equal the marginal costs, except for Schumpeterian übermensch entrepreneurs, who perceive values better than the market. These imprecise forces that disrupt the scientific approach are not necessarily irrational (that is, crazy). They may be nonrational and unpredictable, as in quantum physics, where electrons do not act crazily—they simply defy our current methods of modeling. As economists, we haven’t figured out everything. On the other hand, to deliberately flout the tendencies discovered by the “Hall of Fame” economists is to flirt with economic calamity. Price supports, protectionism, and laissez-faire pollution policies can quickly deliver high prices, high taxes, and filthy air. Despite a reputation for contentiousness, few educated economists would advise any of them.

It’s not easy being an economist. As usual, Keynes found the most sparkling words to describe the master-economist, who “must be as aloof and incorruptible as an artist, yet
sometimes as near the earth as a politician.”¹ All the king’s head-hunters and all the king’s men couldn’t fill this job description.

None of the economists we have surveyed was able to flawlessly balance general/particular, future/present, or heaven/earth. None proved equally prodigious at microeconomic and macroeconomic analyses. They had their limits. Some of them even knew that.

They all knew one thing, however: they could not ignore the interplay between government and the economy. Adam Smith blasted the government for supporting the trade restraints of the guilds. Malthus contended that Poor Laws promoted poverty, Ricardo warned that protectionism could sink England into the abyss of a new dark age. Marx argued that government worked only as a tool of exploitation and oppression. Keynes tried to shake government employees from a deep and dangerous sleep. And so on.

Despite the lonely cries of extremists, we have learned that governments are not necessarily evil or good. They are neither saviors nor satans, although their policies may at times have salvific or satanic consequences.

Nonetheless, each of the economists we have studied, despite their many differences, warned us that governments always face political pressures to take measures that can ruin good economies. U.S. congressmen can spend their entire careers consoling and consorting with victims of good economic policy. Free international trade hurts some domestic producers. Low inflation hurts borrowers. Falling interest rates hurt bond buyers. Technological innovation hurts some workers. Taxes on pollution hurt corporations.

Do not be inveigled into thinking that the victims of good economics exactly offset the beneficiaries. Good economics is not a “zero-sum” game, taking from Petra to pay Paula. As a matter of fact, we may define good economics as policies that produce positive gains, even though victims may be created.

Because even good economic policies often produce victims, economists have a very tough time persuading democratic governments to take good advice. Good economics may not be popular economics, especially in the short run. The benefits of lower inflation and higher investment may take some time to shine through—especially to shine through television images of fallen farmers and depressed homeowners (who enjoyed soaring asset values during the inflationary 1970s, suffered tougher times in the 1980s, and enjoyed a surge in the late 1990s and early 2000s). Unfortunately, the media generally prefer short bursts of wrenching, violent images to lengthy exposures of pleasing, peaceful images.

Good economics does not do well in fifteen-second “sound bites,” as media pros call them. In fifteen seconds a shill from any number of lobbyists can clobber an unbiased economist. What economists really need are lessons in sloganeering and pamphleteering. What news programs need is the patience to listen to difficult arguments.
Let’s be honest, though. To a large extent, the media only reflect the demand of viewers for titillating tidbits. Apparently, people enjoy gruesome news stories, just as they enjoy horror movies. Some of the fault for inane news programs lies in ourselves. We cannot sympathize with market economics and then slam networks for pandering to the public.

As a public, we have at least three psychological barriers to economic literacy. First, we prefer brief, flashy bursts of information. Second, we prefer immediate results and quickly grow impatient. Keynes had it wrong. In the long run, we or at least our descendants are not dead. If we surrender to every urge today, we leave nothing for tomorrow. If we do not save, if we only borrow, if we dance too merrily tonight, tomorrow will be a very long and arduous day. Societies prosper only when they think of a long run. This is not to say that a society of misers always thrives. While the medieval obsession with a heavenly afterlife probably drained the energy to innovate and excel on earth, we in our century have exalted tonight as the chiliastic moment rather than tomorrow or the day after tomorrow.

Third, despite our short-run focus, we find it difficult to recognize the “good times” even when we have them. Economic happiness is not an explosion of wealth. The Industrial Revolution, the most dramatic economic event in the history of mankind, came at a rate of only about 5 percent per year. A 5 percent rise in the living standard does not sweep a pauper into the master bedroom of the palace. Nor does it replace gruel with foie gras. Year-to-year changes come slowly. But when he nears death, the pauper may find that his standard of living has multiplied fourfold. Life is seldom blissful and often just tolerable. Even if a higher living standard could bring happiness, it usually comes too slowly for us. When it finally comes, we’re at just the right age to sing nostalgic songs about the “good old days.” As we travel through time, we peer through the front window with nearsighted glasses, yet we glance through the rearview mirror with rose-colored glasses. It’s hard to move forward that way. And it’s hard for economists to point us in the right direction.

Newspapers seldom declare heydays. Only history books can. In retrospect, the middle 1960s were the heydays of economics. Sustained economic growth spanned years. Keynesian theory appeared powerful. Yet contemporaneous reports of that period highlighted despair and economic uncertainty. The good times passed by without too much notice, as if we had a right to expect prolonged economic success. Only a recession would have made the front pages. As Schopenhauer noted, peaceful years appear in history books as brief pauses scattered here and there, while wars and revolutions dominate. More pithily put by Beccaria, “Happy is the nation without a history.”

Samuel Goldwyn warned us not to make any predictions, especially concerning the future. Let’s ignore him. For despite jeremiads of a coming apocalypse bringing global hunger, despair, and misery, we do have reason for optimism. No guarantees, no overwhelming odds, just reason. Recall that national income depends on labor, capital, natural resources, and technology. Recent developments in each of these factors of production point toward economic growth in the long run.
In the United States, as well as other western democracies, labor seems better acquainted with management than a decade or two ago. Through the influence of Japanese management techniques, workers in large plants play a larger role in designing and refining production process. Furthermore, unions recognize that their prosperity rests on the success of the company, not on the extraction of high wages without concomitant increases in productivity. American unions seem willing to accept lower wages during recessions rather than layoffs, allowing their fortunes to rise and fall with the company’s. In return, management finally understands that workers should have a large stake in the performance of the company. Many employees now receive stock options as part of their compensation. A more cooperative relationship promotes economic growth.

Capital markets are more efficient than they were ten years ago. International financial capital moves more fluidly across national boundaries. Inefficient governments and corporations feel strong pressure to mend their ways, lest they fail to attract investors. Firms find it easier to raise funds in order to build new plants and buy new equipment. Once upon a time, a firm could draw a circle around the geographical area from which it could get financing. A century ago, the radius was perhaps ten miles. If the locals did not save enough money, the firm could not borrow anything from a bank. Throughout the century the radius has expanded. It now equals the radius of the earth. Today a Pittsburgh company can float a bond in Australia, even if all its Pittsburgh neighbors save their money in mattresses rather than mutual funds.

Technology represents the most fascinating and unpredictable part of the production function. Who knows when the next Turing or von Neumann will emerge and where they will take us? They brought us modern computers, but even they would be surprised by how quickly and powerfully the Internet has woven the world together. A schoolgirl in Jakarta is just one mouse click away from a virtual tour of Disney World or a NASA briefing on the Space Shuttle. A man struck with prostate cancer in the Congo can download research from Johns Hopkins and show it to his doctor. Physicists and chemists furiously work on superconductivity, a project that nearly eliminates the barriers that friction presents to us. Superconducting materials and nanotechnology will transport our bodies and our messages at mindboggling speeds. Biologists scramble (carefully, we hope) to exploit recombinant DNA to improve the sources of nutrition and erase the blight of disease. On an institutional level, we see a burgeoning of cooperation between university research centers and corporations. Ventures joining the genius of both types of institutions accelerate the already lightning pace of science.

And of course, our natural resources multiply, whenever technology grants new methods of extracting, recovering, or replenishing the earth’s bounties (and the resources of space).

Surely, we should not ride into the future on a wave of reckless optimism. With each possibility of positive development comes risks and drawbacks. Recalling our production function, labor unions do not always hold hands with management. Factory innovations may
displace some workers; prolonged strikes may take place. Capital markets may be thwarted by insider trading and other scams. Natural resources may be exploited selfishly by irresponsible firms. And so on.

Finally, we must consider all those other political, psychological, and institutional factors that mold our minds. Technology can blossom, but tribal taboos can halt progress. For example, if we thought that sand was holy, we might not have glass or semiconductors, much less vacation homes in Miami Beach. Surely, ancient and medieval restraints on lending restricted economic progress centuries ago. In addition, as Nobel laureate Robert Solow discovered, economic growth demands an educated populace. Paul Romer of Stanford has urged economists to spend as much time on “idea gaps” as on deficiencies in factories and roads. Romer argues that most technologies do not just pop up by accident or get delivered to man as Prometheus brought fire. Since so many people benefit from discoveries like the transistor or chemotherapy, societies should encourage scientists and engineers, whether by tax breaks or by patents, which give discoverers a temporary monopoly on profits. Economic growth also requires, as Joseph Schumpeter taught (prior to the establishment of a Nobel prize in economics), an entrepreneurial drive. Who knows whether mental and spiritual forces will push us forward or twist us around and send us reeling toward barbarism? Are there any Khomeini entrepreneurs?

Schumpeter speculated about capitalism’s future in his masterful Capitalism, Socialism, and Democracy. To Schumpeter, the greatest threat came not from economic factors such as falling profits, but from political factors. In fact, capitalism’s very successes would destroy capitalism. By creating a highly educated class with plenty of leisure time, capitalism would allow a new generation to begin questioning its moral framework. They would begin asking questions about income inequality, justice, pollution, and so on. Finally, their acidic questions would burn through capitalism’s weak moral foundation, and they would turn nations to socialism, which would promise material welfare and moral support for those yearning for justice on this earth. In his now famous query, Schumpeter asked, “Can capitalism survive? No. I do not think it can.”

During the late 1960s, as long hair, hard rock music, psychedelic colors, and drug use spread, Schumpeter’s predictions seemed to be coming true. Third world nations, newly liberated from Europe, turned to socialism. By the early 1970s, Ph.D.’s were driving taxicabs and blasting the establishment.

Markets: As the world economy becomes more competitive, capitalists and Communist countries alike are turning to Adam Smith:

In Moscow, entrepreneurial comrades are running their own beauty parlors and auto repair shops, while in China many farmers are eschewing the communal system in favor of selling produce they grow themselves. . . . It seems that no matter where you look, governments have been turning to market mechanisms—Adam Smith’s ingenious invisible hand—to pep up their economies. Economists say there is unusual agreement among capitalist and Communist countries about the importance of giving freer rein to the market: that overarching mechanism that helps articulate consumer desires, encourages inventiveness, and disciplines inefficient producers.5

The 1990s and early 2000s broadly reinforced these trends, even though Russia and the Far East stumbled. When the Communist Party won democratic elections in Poland in 1995, for example, they committed themselves to capitalist rule. Only their pedigree was communist. Romania, which once practiced a more austere communism than the U.S.S.R., recently signed a free trade pact with Turkey. Sandinista leader Daniel Ortega tossed aside his old Marxism and ran for election in Nicaragua under a pro-capitalist banner. When Labour governments replaced Conservative governments in Great Britain and Canada they outdid their predecessors by keeping tight budgets and privatizing national industries. One of Prime Minister Tony Blair’s first acts was to liberate the Bank of England from political rule so that it could determine monetary policy without feeling the pressure of squeamish politicians. No wonder Margaret Thatcher declared that Blair would do just fine.

Even if a return to market mechanisms does not magically turn poverty into wealth, at least governments have jettisoned rigid, ideological abhorrence of market economic systems. Most important, the wondrous communications technologies that brought us the Internet make it nearly impossible for despots to keep their people in the dark or in silence.

Of course, material prosperity will not cure some of the problems that Schumpeter thought would plague the educated class. Inequality and poverty may still remain. How can they best be assuaged? Taxes and redistributions that tend not to discourage invention and entrepreneurship would help. Many economists advocate consumption taxes to ultimately replace income taxes.

One problem may not be solved by markets or shrewd governments, though. Can human beings keep up with the pace of new inventions that make traditional jobs and roles obsolete? Can human beings educate themselves fast enough to handle the computer and post-computer age? Most probably can. But as society grows more complex, more and more will fall through the various safety nets—those with psychological, physical, and intelligence handicaps will falter. The world is materially easier but psychologically more difficult to live in today than two hundred years ago. Life in the twentieth-century city is as tough on the human spirit as life on the farm ever was. It’s quite easy to lose one’s footing
in the modern world, to be whirled around a factory and spat out a homeless waif, like Charlie Chaplin in Modern Times.

Our biological clocks may no longer be synchronized with our life-styles. Two hundred years ago, women bore children by the age of twenty. By then they knew what the world had to offer, what kind of jobs they could hold, what kind of future they could expect. They could teach their children to survive. How many twenty-year-olds today know what they can or will do when they are twenty-five? The modern world presents us with so many more opportunities that we cannot be good predictors of our own lives, much less of our children's. Our children are no longer raised by people who know the world, not because parents have gotten stupid or lazy, but because the world has gotten too big to master. Parents must eventually learn to teach their children how to handle uncertainty—not how to ensure stability.

In reciting glum news, we have ignored many other possibilities, including natural disasters. California may float off into the Pacific Ocean. Plagues may strike down millions. Drought may starve millions more. Wars may rob the youth from many nations. It is easy to paint a dark portrait of the United States and of the rest of the world.

The economist must study all of these events. They all impinge on his easel, splattering blotches all over the carefully crafted, elegant portrait he wants to unveil to the world.

For most of man's life on earth, he has lived no better on two legs than he had on four. Give the economist a little credit for explaining and depicting the brief, shining moments when there has been a difference.
Notes

I. Introduction: The Plight of the Economist


3 With the rise of quantum physics and its corollaries such as Heisenberg’s principle, even the “hard” sciences are losing their muscle tone.


II. The Second Coming of Adam Smith

1 Adam Smith, Lectures on Justice, Police, Revenue, and Arms, ed. Edwin Cannan (London: Oxford University Press, 1896), p. 179. These lectures are based on notes from students.


3 Smith, Lectures, pp. 172-173.


6 Ibid., p. 349.


11 Ibid., p. 25.
III. Malthus: Prophet of Doom and Population Boom


2 Ibid., p. 528.

3 The formula for the future value (FV) of a principal amount of money (P) held for (N) years at (R) percent compound interest is:

\[ FV = P \times (1 + R)^N \]

A helpful rule of thumb is the Rule of 72, which states that the number of years it takes for a number to double, when growing at a constant rate, equals 72 divided by that number. For instance, if the economy expands at 4 percent per year, in 18 years the economy would double.

5 Ibid., pp. 6-7, 92.


IV. David Ricardo and the Cry for Free Trade


3 If the opportunity costs are equal, there are no possible gains from trade. They might as well be self-sufficient. The model works less persuasively if resources cannot be reallocated and prices are extremely “sticky.” More complex approaches such as the Heckscher-Ohlin-Samuelson model examine what determines opportunity costs and comparative advantages besides labor hours.


5 If Britons dump their dollars, the value of the dollar (the exchange rate) will fall. Thus, trade deficits generally lead to depreciating currencies. But with a cheaper dollar, American exporters would find it easier to sell to foreigners, and foreign producers would have more trouble selling their goods in the United States. This process would eventually reduce the trade deficit. Foreigners may also use their U.S. dollars to buy American assets such as property and factories, if they think the U.S. economy is healthy and will yield higher returns than investing in their own countries.

While an “invasion” of foreign purchasers could give foreigners a larger political voice in the United States, so far the proportion of foreign ownership is still small enough that the political effects remain slight. In the meantime, Americans benefit through more jobs, more tax revenue to towns, states, and Washington, and a transfer of foreign skills and technology to the United States.


are born, raised, and ultimately buried. Policies and principles that work well at one stage in a nation’s life may work badly at another.

10 Ibid., vol. I, p. 97. Query what material goods are necessary today to define “necessaries.” A radio? A television?

11 Ibid., vol. I, p. 70.

12 Ibid., vol. I, p. 35.

13 Ibid., vol. I, p. 120.

14 Ibid., vol. VIII, p. 208; Also see Ricardo writing in the 1820 Encyclopedia Britannica, vol. 8, p. 179.


16 Malthus, Principles of Political Economy, p. 186.


V. The Stormy Mind of John Stuart Mill


2 Ibid., pp. 28, 30.


5 Ibid., pp. 98-100.


7 Ibid., pp. 30-31.

Mill, pp. 40-41.

Ibid., p. 109.

Ibid., pp. 132-134.

Ibid., p. 49.


Ibid., pp. xix-xx.


Ibid.

Ibid., p. 869.

Ibid., p. 759.

Ibid., p. 950.

Ibid., p. 799.

Ibid., p. 748.

Ibid.

Ibid., p. 757.


VI. The Angry Oracle Called Karl Marx


2 McLellan, pp. 6-7.

3 Ibid., p. 33.


5 McLellan, p. 53.


7 McLellan, p. 99.


14 Marx, A Contribution to the Critique of Political Economy, preface.


17 Ibid.

18 McLellan, p. 98.

19 Sandover, pp. 291-293.

20 Payne, p. 295.
The question of relative poverty is extremely difficult to assess. First, since there is an income gap between rich and poor, even if the poor gain at a faster rate, the gap in absolute dollars may enlarge. Compare person A, who starts with $10,000 and enjoys a 10 percent raise each year with person B, who starts at $100,000 and enjoys only a 5 percent raise each year. In about seven years, A is earning about $20,000, while B is earning over $140,000. Second, in the United States, over the course of a generation there is considerable upward and downward mobility. One major study revealed that about one-third of the children of the most affluent parents in the country received income below the national average. Furthermore, about one-third of the children of the poorest parents climbed up and above the national average. See Christopher Jencks et al., Inequality: A Reassessment of the Effect of Family and Schooling in America (New York: Basic Books, 1972), pp. 209-216. For an international approach to mobility, see W. W. Rostow, Why the Poor Get Richer and the Rich Slow Down (Austin: University of Texas Press, 1980). We can confidently say that during most of the twentieth century, all classes in the United States have enjoyed sustained absolute progress. Nonetheless, during the stagflation from 1974 to 1982 all income classes lost ground. The poor especially suffered for economic as well as sociological reasons, as the number of female-headed households jumped by about 40 percent. During the middle and late 1980s the 1973 plateau was reached again and surpassed.


We assume that the backpacker cannot return to Italy for more pleasure. Also, the cost of stepping forward includes the opportunity cost—the pleasure derivable from staying home, for instance.


Ibid., p. 171.


Keynes, p. 175.


Ibid., p. xv.

Ibid., p. 461.


Keynes, p. 196.


Ibid., p. 366.

Ibid., p. 271.

Ibid., p. 316. Schumpeter argued that dominant firms and monopolists could help the economy, because their excess profits enabled them to invest heavily in research and development. Schumpeter’s position remains controversial.
For a profile of the fascinating Sarnoff, see my New Ideas from Dead CEOs (New York: HarperCollins, 2007).


Ibid., p. 348.

Ibid., p. 99.

Ibid., p. 118.

Keynes, p. 205.


Marshall, Principles, p. 3.

Keynes, p. 173.

VIII. Old and New Institutionalists

Auguste Comte gave the same advice to Mill. The neoclassicalists didn’t listen. Instead they derided the even limper “soft” sciences. Ironically, the new institutionalists today meet on the same turf as other social scientists, partly because they bullied themselves into anthropology, criminology, and sociology.


Although he eschewed Marx’s approach to exploitation, Veblen accepted Marx’s charge that the institution of private property hurts society. Nonetheless, his antipathy toward private property did
not stop him from defending his secluded mountain cabin from a trespasser by attacking the intruder with a hatchet.


10 Ibid., p. 286.


13 Veblen, The Engineers and the Price System, p. 58.


17 John Kenneth Galbraith, The Affluent Society (Boston: Houghton Mifflin, 1976), p. 149. Given his forceful critique, it is ironic that Galbraith recently agreed to write a hardcover book (for Whittle Communications) that will contain advertisements!


22 United States v. Carroll Towing Co., 159 F.2d 169 (2d Cir. 1947).


IX. Keynes: Bon Vivant as Savior


5 Skidelsky, p. 118.

6 Harrod, p. 101.

7 Skidelsky, pp. 165-166.

8 Ibid., pp. 173, 175.
9 Ibid., p. 177.


16 Keynes, CW, vol. xxi, pp. 134, 144.

17 Keynes, The General Theory, in CW, vol. vii, p. 128. For more elaborate proofs and explanations why the tax cut multiplier is smaller than the government and investment multiplier, see any introductory economics textbook.

18 Keynes, CW, vol. xxi, p. 296.


20 Ibid., p. 129.

21 Samuelson, p. 187.


23 Ibid., p. 156.

24 Ibid., pp. 162-163.


26 Keynes, CW, vol., ix, pp. 321-332.

X. Milton Friedman and the Monetarist Battle Against Keynes


16 A good primer on the matter is Martin S. Feldstein, ed., Taxes and Capital Formation (Chicago: University of Chicago Press, 1987). The book contains articles by Summers, President Clinton’s Deputy Treasury Secretary, as well as articles by Boskin, Feldstein, and Lawrence Lindsey, key advisers to the Reagan and Bush administrations.


XI. The Public Choice School: Politics as a Business

1 David Vesey, “Personality Spotlight: James Buchanan; Nobel Prize winner for economics,” United Press International (October 16, 1986).


11 Keynes, CW xxvii, p. 387.

12 Keynes, “My Early Beliefs,” in Essays in Biography, CW x, pp. 436, 437, 446.


15 Keynes, CW vii, p. 384.

16 Keynes, “Can Lloyd George Do It?” in CW ix, p. 125.

17 Ibid.

18 Keynes, CW x, pp. 440, 448.


23 Keynes, CW x, p. 448.


25 Keynes, CW ii, pp. 22-23. Keynes deleted his more cutting remarks on Lloyd George from Economic Consequences of the Peace. They appeared fourteen years later in Essays in Biography. See CW x, pp. 22-26 and CW xvii, p. 41.


27 Keynes, CW ix, p. 295.


XII. The Wild World of Rational Expectations and Behavioral Economics


violated the White House rules, I declined. Instead, Peter Bernstein wrote this excellent book for that publishing house.


20 See Mark H. Willes, “‘Rational Expectations’ as a Counterrevolution,” The Public Interest (Special Issue 1980), p. 92.
In a 1997 decision, the Supreme Court revisited the insider trading doctrine and tightened it up, based on change in the Securities and Exchange Commission rules. A financial printer is no longer free to misappropriate inside information. United States v. O’Hagan 97 C.D.O.S. 4931 (1997).

XIII. Dark Clouds, Silver Linings


Index

Absolute advantage
Advertising
Affluent Society, The (Galbraith)
Africa
Agriculture:
  collectivization
Physiocrats on
  revolution in
Ricardo on
Smith on
  in Third World countries
Altruism, economy based on, Hayek on
American Journal of Economics and Sociology
AOL (America Online)
Apple Computer
Apprenticeship laws
Aristotle
Arrow, Kenneth
AT&T
Autobiography (Mill)
Bacon, Francis
Bananas and free trade
“Bandwagon, Snob, and Veblen Effects in the Theory of Consumer Demand” (Liebenstein)
Barro, Robert
Bastiat, Frédéric
Becker, Gray
Behavioral economics
Bentham, Jeremy
felicific calculus
Philosophical Radicals
  as utilitarian
  “Bentham” (Mill)
Berle, Adolph
Bernanke, Ben
Bernard, Claude
Bible
Birth of Tragedy (Nietzsche)
Blair, Tony
Blinder, Alan
Bloomsbury Group
Boas, Franz
Bogle, John C.
Bond vigilantes
Bono
Bork, Robert
Borlaug, Norman
Boskin, Michael
Boswell, James
Brady, Nicholas
Brandeis, Louis
Britain,
see individual British economists
Brookings Institution
Brown, Gordon
Bruegel, Pieter the Elder
Brunner, Karl
Buccleuch, Duke of
Buchanan, James M.
“Buchholz Hypothesis,”
Budget balanced
deficits
Bureaucracies
Burke, Edmund
Burns, Arthur
Bush, George H. W.
Bush, George W.
Business cycles
Calculus of Consent, The (Buchanan and Tullock), 2544
Capital (Marx)
Capitalism
Marx on
Weber on
Capitalism, Socialism, and Democracy (Schumpeter)
Capitalism and Freedom (Friedman)
Capture theory of regulation
Carlyle, Thomas
Carter, Jimmy
Carter administration
Catholic Church
Catholic Schoolmen
Chamberlin, Edward
China
Churchill, Winston
Clark, John Bates
Clayton Act
Clemenceau, Georges
Clinton, Bill
Club of Rome
Coase, Ronald
Coase’s Theorem
Colbert, Jean-Baptiste
Coleridge, Samuel Taylor
Collected Writings (Keynes)
Commons, John R.
Communism
Communist Manifesto, The (Marx and Engels)
Comparative advantage
Competition, restrictions on
Compound interest
Comte, Auguste
Conditions of the Working Class in England in 1844, The (Engels)
Condorcet, M.
Connally, John
Conspicuous consumption
Consumer:
advertising’s influence on
corporate power to mold
marginalist
Contribution to the Critique of Political Economy (Marx)
Copernicus, Nicolaus
Corn Laws
Corporate finance
Corporate scandals
Corporations:
mergers
monopolies
power to mold consumers
size of
Council on Environmental Quality
Cournot, Augustin
Crandall, Robert
Criminal law
Dalkeith, Countess of
Darwin, Charles
Debreu, Gerard
Deduction
Demand:
for drugs
Galbraith’s ideas on
Marshall’s law of
for money
Veblen’s ideas on
Democracy in America (Tocqueville)
Demographic transition
Deng Xiaoping
Dependence effect
Depressions
see also Great Depression
Deregulation
Derived demand
Descartes, René
Diminishing returns, law of
Discourse on Method (Descartes)
Division of labor:
Smith on
among towns and countries
Dollar, value of the
Drug problem
Duby, Georges
East India Company
Eckersall, Harriet
Economic Analysis of Law (Posner)
Economic Consequences of the Peace (Keynes)
Economic Journal
“Economic Possibilities for Our Grandchildren” (Keynes)
Economics:
as branch of philosophy
genesis of
law and
Economics (Samuelson)
Economics and the Public Purpose (Galbraith)
Economic time
Economies of scale
Edgeworth, F. Y.
Edgeworth, Maria
Efficient Market Hypothesis
Ehrlich, Paul
Eisenhower, Dwight D.
Elasticity
Employment Act of 1946
Engels, Friedrich
Engineers and the Price System (Veblen)
Engineers versus businessmen
English Poor Law
Enlightenment
Enquiry Concerning the Principles of Political Justice, and Its Influence on General Virtue and Happiness (Godwin)
Enron
Essay on the Principle of Population as It Affects the Future Improvement of Society, with Remarks on the Speculations of Mr. Godwin, M. Condorcet, and Other Writers, An (Malthus)
Essay on the Principle of Population or a View of Its Past and Present Effects on Human Happiness, with an Inquiry into Our Prospects Respecting the Future Removal or Mitigation of the Evils Which It Occasions, An (Malthus)
Essays in Positive Economics (Friedman)
Essence of Christianity, The (Feuerbach)
Ethiopia
European Union
External economies
Extrapolation from past data
Factory Acts
Famine
Fannie Mae
Fargo, North Dakota
Fay, Charles Rye
Federal Open Market Committee
Federal Reserve Board
control of money supply
Feldstein, Martin
Feuerbach, Ludwig
Fiscal policy,
see Government, role of
Fisher, Irving
Forbes
Ford, Gerald
Forster, E. M.
Fortune
Fox, Prime Minister
Franklin, Benjamin
Free markets
Free to Choose (Friedman)
Free trade
absolute advantage
comparative advantage
Smith on
Freight shipping
Freud, Sigmund
Friedman, Milton
background of
Capitalism and Freedom
on commission on all-volunteer military
Free to Choose
as monetarist
taxes and
Friedman, Rose
Galbraith, John Kenneth
on advertising
Galileo
Gates, Bill, compared to John D. Rockefeller
GDP
Gehry, Frank
General Agreement on Tariffs and Trade (GATT)
General Motors
General Theory of Employment, Interest and Money, The (Keynes)
Geometric ratios
George, Henry
Germany
Gibbon, Edward
Gladstone, William
Global 2000 Report
Gluts
Godwin, William
Gorbachev, Mikhail
Gore, Al
Gossen, H. H.
Government, role of:
Keynesians and
Mill on
monetarists on
Rational Expectations school and
Smith on
see also Public Choice, school of
Great Depression
fall of classical economics and
Keynes’ solution to
monetary policy and
Great Plains Software, Inc.
“Green Revolution,”
Greenspan, Alan
Gulf and Western
Hahn, Frank
Hall, Robert
Hamilton, Alexander
Hand, Learned
Hansen, Alvin
Harrod, Roy
Hayek, Friedrich A.
Health care system
Hegel, G. W. F.
dialectic method
Heilbroner, Robert
Himmelfarb, Gertrude
Hobbes, Thomas
Honeywell
Hume, David
Malthus and
Hutcheson, Francis
IBM
Income velocity of money
India
Indian Currency and Finance (Keynes)
Indonesia
Induction
Infant industries, protection of
Inflation
Information
Inheritance taxes
Inquiry into the Human Prospect, An (Heilbroner)
Insider trading
Institutionalists
“Intellectual Pre-eminence of Jews in Modern Europe” (Veblen)
Interest rates
real versus nominal, 1173
Internal economies
Intertemporal choice
Invention
Japanese and
Smith on
Investment:
Keynes on
savings and
Iraq
Israel
ITT
Jagger, Mick
Japan
Jevons, William Stanley
Jiang Jemin
Jobs, Steve
Johnson, Harry
Johnson, Lyndon B.
Johnson, Samuel
Johnson administration
Journal of Economic Perspectives
Journal of Post Keynesian Economics
Kahn, Richard
Kahneman, Daniel
Kalecki, Michal
Kant, Immanuel
Kennedy, John F.
Kennedy administration
Keynes, John Maynard
background of
described
failure to warn about flaws in governments
The General Theory of Employment, Interest and Money
influence of
Malthus defended by
Marshall and
monetarists versus Keynesians
role of government in the economy
solutions to economic slowdown
Tract on Monetary Reform
Treatise on Money
view of the future
Keynes, John Neville
King of Clubs
Krugman, Paul
Labor, division of,
see Division of labor
Labor theory of value, Marx’s
Labor unions
Laffer, Arthur
Laibson, David
Laughlin, J. Lawrence
Law and economics
Leibenstein, Harvey
Leibniz, Gottfried
Leisure class
Lenin. I.
Leontief, Wassily
Leveraged buyouts (LBOs)
Leviathan (Hobbes)
Life-cycle hypothesis
Limits of Growth, The
Lincoln, Abraham
“Little Ice Age,“
Lloyd George, David
Lopokova, Lydia
Losing Ground (Murray)
Louis XIV
Lucas, Robert
Lucas Critique
Ludwig, Mises
"Maastrict Treaty,"
Machiavelli, Niccolò
McNamara, Robert S.
Malthus, Daniel
Malthus, Thomas Robert
background and career of
on gluts
method of
population theory
Ricardo and
Manchester Guardian
Mao ZeDong
Marginalism
critics of
as evolution applied to economics
explanation of
of Marshall
Marginal propensity to consume
Marginal propensity to save
Marginal utility
Marglin, Stephen
Markets
free,
see Free markets
Markowitz, Harry
Marshall, Alfred
early years of
economic time
economies of scale
elasticity
gradualist approach of
Keynes and
law of demand
law of supply
macroeconomic views
the marginalist consumer
Principles of Economics
Martin, William McChesney
Marx, Heinrich
Marx, Karl
background of
Capital
on capitalism
The Communist Manifesto
correlation to modern economics
correlation to modern politics
critique of
historical materialism
as journalist
labor theory of value
Means, Gardiner
Medicare
Meltzer, Alan
Mercantilism
Microsoft
antitrust case against
Mill, James
Mill, John Stuart
background of
Bentham and
crisis of
on education
method of
Principles of Political Economy
rebirth as romantic
on taxation
utilitarianism and
vision of the future
Miller, Merton
Mills. Wright
Mirabeau
Mitchell, Wesley
Models, economic
see also individual economists
Modigliani, Franco
Monetarism
Monetary History of the United States, 1867-1960 (Friedman and Schwartz)
Money supply
Monopolies
Monthly Magazine
Moore, G. E.
Morgan, Lewis
Mortality rates
Moynihan, Daniel Patrick
Mugabe, Robert
Multiplier
Muth, John
Nash, John
Nation
National defense
National Distillers Corporation
Negligence law
New Classical economists
New Industrial State, The (Galbraith)
New institutionalists
Newton, Isaac
New York Daily Tribune
Nietzsche, Friedrich
Niskanen, William, Jr.
Nixon, Richard
Nixon administration
“Non Sequitur of the Dependence Effect” (Hayek)
Nordhaus, William
Normative economics
Okun, Arthur
Old institutionalists
Oligopolies
Olson, Mancur
On Liberty (Mill)
On Logic (Mill)
On the Principles of Political Economy and Taxation (Ricardo)
Opportunity cost
Paley, Archdeacon William
People Express
 Permanent income hypothesis
Phelps, Edmund
Phillips, A. W.
Phillips curve
Philosophias Naturalis Principia Mathematica (Newton)
Philosophical Radicals
Philosophy of Poverty (Proudhon)
Physiocrats
Pigou, A. C.
Pitt, William
 Political cycle theory
Politics and economics
Public Choice school
see also individual economists and politicians
Pollution
Poor Laws, English
Population, Malthus’ essays on
positive checks
preventative checks
reasons for errors in
Positive economics
Posner, Richard
Poverty of Philosophy, The (Marx)
Prescott, Edward
Prices
fixing of
free market’s regulation of
Keynes on
money supply and
price supports
Principles of Economics (Marshall)
Principles of Political Economy (Malthus)
Principles of Political Economy (Mill)
Productivity
Profits
Progress and Poverty (George)
Progressive income tax
Property law
Proportional income tax
Protestant Work Ethic and the Spirit of Capitalism (Weber)
Proudhon, Pierre
Public Choice school
Quantity theory of money
Quantum Chemical Corporation
Quesnay, François
Quotas, trade
Rand Corporation
Random Walk Down Wall Street, A (Malkiel)
Rational Expectations school
Rawls, John
RCA
Reagan, Ronald
Reagan administration
Recession
Regulation
Rents
economic
rent control laws
Review of Radical Political Economy
Rheinische Zeitung
Ricardo, David
on agriculture
background of
economic rents
on gluts
Law of Comparative Advantage
Malthus and
method of
on trade
Road to Serfdom, The (Hayek)
Robbins, Lionel
Robinson, Joan
Romer, Paul
Roosevelt, Franklin D.
Rosovsky, Henry
Rousseau, Jean-Jacques
Ruge, Arnold
Russell, Bertrand
Russia
Saint-Simon, Comte de
Samuelson, Paul
Economics
Sargent, Thomas
Sarnoff, David
Savings
investment and
Keynes on
Say, J. B.
Say’s Law
Schumpeter, Joseph
Schwartz, Anna J.
“Scientific method,”
Self-interest
Sharpe, William
Shaw, George Bernard
Sherman Anti-Trust Act
Sidgwick, Henry
Simon, Herbert
Simon, Julian, wager with Paul Ehrlich
Singapore
Size of companies
Skandia
Sketch for a Historical View of the Progress of the Human Mind (Condorcet)
Smith, Adam
on absolute advantage
background of
common man and
on divergence in wages
division of labor
domestic trade relations
France and the physiocrats and
the free market
free trade
international trade restrictions
on invention
mercantilists’ ideas of wealth and
as philosopher
policies of, put into practice
Reagan economic policies and
on role of government
The Wealth of Nations, see Wealth of Nations, The
Socialism 1174
Social Security
Solow, Robert
Southey, Robert
South Vietnam
Special interest groups
Sprinkel, Beryl
Sraffa, Piero
Sri Lanka
Stalin, Joseph
Stationary state
Steel industry, U.S.
Stewart, James
Stigler, George
Stock incentives
Stock market
Strachey, Lytton
Strauss, Leo
Summers, Lawrence
Supply:
of drugs
Marshall’s law of
Supply-side economics
Sweden
Sweezy, Paul
Tableau économique
Tariffs
Taxes
on cigarettes
cutting, during recession
Mill on
supply-siders
Tax Reform Act of 1986
Taylor, Harriet and John
Thaler, Richard
Thatcher, Margaret
Theory of Moral Sentiments, The (Smith)
Theory of the Leisure Class, The (Veblen)
Third World
time, economic
time, Inc.
time Warner
Tobin, James
Tocqueville, Alexis de
Torrens, Robert
Tort law
townshend, Charles
Tract on Monetary Reform (Keynes)
trade
battle against protectionists
free,
see free trade
restrictions on domestic
restrictions on international
trade deficit
transfer earnings
Treatise on Human Nature (Hume)
Treatise on Legislation (Bentham)
Treatise on Money (Keynes)
Trevor-Roper, Hugh
Truman, Harry S
trusts
Tullock, Gordon
Tversky, Amos
Two Lucky People (Friedman)
Tyco
Unemployment insurance
Ursinus College, Pennsylvania
Utilitarianism
Utilitarianism (Mill)
Utilitarian Society
Veblen, Thorstein
background of
conflict between engineers and managers
conspicuous consumption
the leisure class
Velocity of money
Vietnam War
Volcker, Paul
Voltaire
von Mises, Ludwig
von Thünen, J. H.
Wages
Wall Street, economists and
Wall Street Journal
Walraséon
Walt Disney Concert Hall, Los Angeles
Warner Communications
Watson, Thomas, Jr.
Watson, Thomas, Sr.
Wealth of Nations, The (Smith)
the common man and
division of labor
free market
free trade
“the invisible hand,”
on self-interest
Weber, Max
Weinberger, Caspar
Welfare
reform
Westminster Review
Westmoreland, William
Westphalen, Baron von
Whitehead, Alfred North
Wicksell, Knut
Wilson, Woodrow
Wittgenstein, Ludwig
Woolf, Leonard
Wordsworth, William
Workfare
Workmanship, instinct of
World Bank
World Trade Organization (WTO)
Xerox
Yeltsin, Boris
Young, Don
Young Hegelians
Zhu Rongji