LEARNING MADE EASY



Coffee



Discover the ins and outs of coffee's history

Make espresso drinks at home like a barista

Recognize how roasting affects flavor

Major Cohen

Authorized Specialty Coffee Association Trainer Former Senior Project Manager, Starbucks





by Major Cohen



Coffee For Dummies®

Published by: John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030-5774, www.wiley.com

Copyright © 2021 by John Wiley & Sons, Inc., Hoboken, New Jersey

Published simultaneously in Canada

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without the prior written permission of the Publisher. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748–6011, fax (201) 748–6008, or online at http://www.wiley.com/go/permissions.

Trademarks: Wiley, For Dummies, the Dummies Man logo, Dummies.com, Making Everything Easier, and related trade dress are trademarks or registered trademarks of John Wiley & Sons, Inc., and may not be used without written permission. All other trademarks are the property of their respective owners. John Wiley & Sons, Inc., is not associated with any product or vendor mentioned in this book.

LIMIT OF LIABILITY/DISCLAIMER OF WARRANTY: THE PUBLISHER AND THE AUTHOR MAKE NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS WORK AND SPECIFICALLY DISCLAIM ALL WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. NO WARRANTY MAY BE CREATED OR EXTENDED BY SALES OR PROMOTIONAL MATERIALS. THE ADVICE AND STRATEGIES CONTAINED HEREIN MAY NOT BE SUITABLE FOR EVERY SITUATION. THIS WORK IS SOLD WITH THE UNDERSTANDING THAT THE PUBLISHER IS NOT ENGAGED IN RENDERING LEGAL, ACCOUNTING, OR OTHER PROFESSIONAL SERVICES. IF PROFESSIONAL ASSISTANCE IS REQUIRED, THE SERVICES OF A COMPETENT PROFESSIONAL PERSON SHOULD BE SOUGHT. NEITHER THE PUBLISHER NOR THE AUTHOR SHALL BE LIABLE FOR DAMAGES ARISING HEREFROM. THE FACT THAT AN ORGANIZATION OR WEBSITE IS REFERRED TO IN THIS WORK AS A CITATION AND/OR A POTENTIAL SOURCE OF FURTHER INFORMATION DOES NOT MEAN THAT THE AUTHOR OR THE PUBLISHER ENDORSES THE INFORMATION THE ORGANIZATION OR WEBSITE MAY PROVIDE OR RECOMMENDATIONS IT MAY MAKE. FURTHER, READERS SHOULD BE AWARE THAT INTERNET WEBSITES LISTED IN THIS WORK MAY HAVE CHANGED OR DISAPPEARED BETWEEN WHEN THIS WORK WAS WRITTEN AND WHEN IT IS READ.

For general information on our other products and services, please contact our Customer Care Department within the U.S. at 877-762-2974, outside the U.S. at 317-572-3993, or fax 317-572-4002. For technical support, please visit https://hub.wiley.com/community/support/dummies.

Wiley publishes in a variety of print and electronic formats and by print-on-demand. Some material included with standard print versions of this book may not be included in e-books or in print-on-demand. If this book refers to media such as a CD or DVD that is not included in the version you purchased, you may download this material at http://booksupport.wiley.com. For more information about Wiley products, visit www.wiley.com.

Library of Congress Control Number: 2020952999

ISBN: 978-1-119-67901-1

ISBN: 978-1-119-67904-2 (ebk); ISBN: 978-1-119-67905-9 (ebk)

Manufactured in the United States of America

10 9 8 7 6 5 4 3 2 1

Contents at a Glance

Introduction 1
Part 1: Getting Started with Coffee5CHAPTER 1: Demystifying Coffee: Just the Basics7CHAPTER 2: Figuring Out What Coffee Is21
Part 2: The Story of Coffee
Part 3: Taking a Trip around the World59CHAPTER 5: Sourcing Coffee — Digging In to Where Coffee Comes From61CHAPTER 6: Considering the Western Hemisphere71CHAPTER 7: Discussing Africa97CHAPTER 8: Addressing the Eastern Hemisphere and Asia Pacific111
Part 4: Roasting Coffee 123 CHAPTER 9: The History of Roasting 125 CHAPTER 10: Roasting for Flavor 131
Part 5: Preparing Coffee and Espresso141cHAPTER 11: Exploring the Brewing Methods and Mastering the Tricks143cHAPTER 12: Making Espresso Easier159
Part 6: Perusing Today's Coffee Business177CHAPTER 13: Meeting Some Coffee Trailblazers179CHAPTER 14: Looking at Where Coffee Is Today197
Part 7: The Part of Tens.215CHAPTER 15: Ten (or So) Myths about Coffee Debunked
Part 8: Appendixes 237 APPENDIX A: Glossary 239 APPENDIX B: Timeline of Key History of Coffee 251
Index

Table of Contents

INTRO	DUCTION	1
	About This Book	1
	Icons Used in This Book	
	Where to Go from Here	3
PART 1	I: GETTING STARTED WITH COFFEE	5
CHAPTER 1:	Demystifying Coffee: Just the Basics	7
	Understanding What Coffee Is (and Isn't)	8
	Appreciating Coffee — from Its Past to Today	
	A world of farms and fickle crops	9
	Going back to coffee's roots.	9
	Examining coffee and roasting today	10
	Traveling Worldwide — Where Coffee Is Grown	
	Visiting the Western Hemisphere	
	Heading to Africa	
	Heading to the Eastern Hemisphere	
	The Lowdown on Roasting Coffee	
	Examining Brewing	
	Brewing Espresso	
	Examining Where Coffee Is Now	17
	Identifying some of the people behind the	47
	coffee industry today	1/
	Recognizing coffee's presence today	18
CHAPTER 2:	Figuring Out What Coffee Is	21
	Understanding the Life Cycle of Coffee: From Seed to Bud	
	to Cherry to Harvest	
	Flowers appear on coffee tree branches	
	The flowers develop into a cherry.	
	A team of pickers pick the cherries.	
	The pickers hand sort the picked cherries	
	The cherries are processed	27
	Meeting the Two Main Types of Coffee and Understanding the Subspecies	29
	Processing the Cherry: Getting to the Bean	
	Washed coffee processing	33
	Semi-washed processing	
	Natural processing	36
	Pulped natural or honey processing	37

PART 2: THE	STORY OF COFFEE	39
CHAPTER 3: Fam	iliarizing Yourself with Some	
	ee History	41
Under	standing How Geography Is Linked to	
Histor	y — the Coffee Belt	
	ng Back at Coffee's Roots	
	di and his goats	
	anks to Baba Budan, coffee appears in India	
	ng to Europe and Beyond	
	e first coffeehouses open	
	ffee's ups and downs in England	
	ffee and the American colonies	
	e Americas and first coffee trees	
Thr	ree centuries of dramatic change	49
CHAPTER 4: Takii	ng a Closer Look at Brewing Today	51
	standing a Brewing Force — Alfred Peet and	
His Fo	cus on Quality	
	ying, roasting, and creating a new coffee culture	
	nerously growing the coffee community	
	ecialty coffee is born	
	iveling to Italy changed everything	
	panding the business	
	ding Brewed Specialty Coffee Worldwide	
Eng	gland breaks out	55
	S. brewers create excitement	
	eting consumer demands.	
	standing the Role of the National Coffee Association	
	erall coffee consumption	
	ffee drinking by generation	
20.		
PART 3: TAK	(ING A TRIP AROUND THE WORLD	59
CHAPTER 5: SOUR	cing Coffee — Digging In to Where	
Coffe	ee Comes From	61
	a Bird's-Eye Look: The Coffee Belt	
Ide	ntifying the top coffee producers	
Red	cognizing what makes these countries so unique	
to §	growing coffee	65
	standing Nature's Role in Growing Coffee	
Recogi	mang now climate change is changing conee	

CHAPTER 6:	Considering the Western Hemisphere	71
	Eyeing Central America's Influence on Coffee Production	72
	Costa Rica	
	El Salvador	
	Guatemala	
	Honduras	
	Mexico	
	Panama	
	Looking Closer at South America's Contributions	00
	to Coffee Production	82
	Bolivia	
	Brazil	
	Colombia	
	Ecuador	
	Peru	
	Venezuela Examining the Caribbean's Impact on Coffee	
	Cuba	
	Dominican Republic	
	Jamaica	
	Getting the Aloha Feel: Hawaii's Influence on Coffee Production .	
	Discussing Africa	07
CHAPTER 7:	Discussing Africa	
CHAPTER 7:	Looking Closer at Northeastern Africa	98
CHAPTER 7:	Looking Closer at Northeastern Africa	98 98
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya	98 98 101
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa	98 98 101 103
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa Burundi	98 98 101 103 103
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa	98 98 101 103 103 105
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa Burundi Congo	98 98 101 103 103 105 106
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa Burundi Congo Malawi. Rwanda Tanzania.	98 98 101 103 103 105 106 106 108
CHAPTER 7:	Looking Closer at Northeastern Africa Ethiopia Kenya Examining Central and Southern Africa Burundi Congo Malawi Rwanda	98 98 101 103 103 105 106 106 108
	Looking Closer at Northeastern Africa. Ethiopia. Kenya. Examining Central and Southern Africa. Burundi. Congo Malawi. Rwanda. Tanzania. Zambia.	98 98 101 103 103 105 106 106 108
	Looking Closer at Northeastern Africa. Ethiopia. Kenya. Examining Central and Southern Africa. Burundi. Congo . Malawi. Rwanda . Tanzania . Zambia . Addressing the Eastern Hemisphere	98 98 101 103 103 105 106 108 110
	Looking Closer at Northeastern Africa. Ethiopia. Kenya. Examining Central and Southern Africa. Burundi. Congo. Malawi. Rwanda. Tanzania. Zambia. Addressing the Eastern Hemisphere and Asia Pacific.	98 98 101 103 103 105 106 108 110
	Looking Closer at Northeastern Africa. Ethiopia. Kenya. Examining Central and Southern Africa. Burundi. Congo . Malawi. Rwanda . Tanzania . Zambia . Addressing the Eastern Hemisphere	98 98 101 103 105 106 106 108 110
	Looking Closer at Northeastern Africa. Ethiopia. Kenya. Examining Central and Southern Africa. Burundi. Congo. Malawi. Rwanda. Tanzania. Zambia. Addressing the Eastern Hemisphere and Asia Pacific. Examining the Countries Biggest in Size.	98 98 101 103 105 106 106 108 110 111

The Heavy Hitters: Identifying Some Traditional	
Coffee-Producing Countries.	
Indonesia	
Papua New Guinea	
Vietnam	
Yemen	120
PART 4: ROASTING COFFEE	123
CHAPTER 9: The History of Roasting	125
Understanding How Roasting Started	125
Examining What Roasters First Used	126
Developing Roasting into a Business	
Starting slowly	
Moving to roasting specialty coffee	128
CHAPTER 10: Roasting for Flavor	131
Walking the Fine Line of Roasting: A Balance between	
Artistry and Science.	
Saving money, time, and raw materials	
Moving past the color	
Roasting, Step by Step	
Step 1: Loading or charging and drying	
Step 2: Yellowing	
Step 3: Popping or cracking — the first time	
Step 4: Developing or monitoring	
Step 5: Finishing Deciphering What the Different Roasts Mean	130
and How They Taste	136
Light roasts — bright and flavorful	
Medium roasts — balanced and complex	
Dark roasts — uniquely flavored	
DADT 5. DDEDADING COFFEE AND FORDESCO	
PART 5: PREPARING COFFEE AND ESPRESSO	141
CHAPTER 11: Exploring the Brewing Methods	1 4 2
and Mastering the Tricks	
Understanding Extraction	
Focusing on the Basics of Coffee Brewing.	
Identifying the variables that make a cup of coffee	
Starting with the water	
Adding the coffee	
Following a recipe	
Examining the Brewing Methods	
Using the force of gravity: The pour-over	
A few more options	

CHAPTER 12: Making Espresso Easier	159
Appreciating Italy's Contribution to Making	
Espresso What It Is Today	
Making the Perfect Espresso — the Four M's	162
Pulling a Few Shots — What's Involved When Making	1.60
an Espresso	
Identifying the equipment and all the bells and whistles	
Making espresso, step by step	
Adding milk or an alternative.	
Knowing What You're Ordering	
Espresso solo or doppio	
Ristretto	
Lungo.	
Macchiato	
Cappuccino Caffé latte	
Mocha	
Cortado	
Contauo	175
PART 6: PERUSING TODAY'S COFFEE BUSINESS	177
CHAPTER 13: Meeting Some Coffee Trailblazers	179
Identifying Early Trendsetters Whose Names	
Have Withstood the Test of Time	180
	400
James Folger	180
James Folger	
	180
Chase and Sanborn	180 183
Chase and Sanborn The Italians and Their Coffee Heritage	180 183 183
Chase and Sanborn The Italians and Their Coffee Heritage Angelo Moriondo	180 183 183 183
Chase and Sanborn The Italians and Their Coffee Heritage Angelo Moriondo Luigi Bezzera Desiderio Pavoni Pier Teresio Arduino	180 183 183 184 184 184
Chase and Sanborn The Italians and Their Coffee Heritage Angelo Moriondo Luigi Bezzera Desiderio Pavoni	180 183 183 184 184 184
Chase and Sanborn The Italians and Their Coffee Heritage Angelo Moriondo Luigi Bezzera Desiderio Pavoni Pier Teresio Arduino	
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera Desiderio Pavoni Pier Teresio Arduino Making Waves in the United States	180 183 183 184 184 184 185 185
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States . Alfred Peet .	180 183 183 184 184 184 185 185 186
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera . Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States . Alfred Peet . Erna Knutson . George Howell . Howard Schultz .	180 183 183 184 184 184 185 185 185 187 188
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera . Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States . Alfred Peet . Erna Knutson . George Howell . Howard Schultz . Mary Williams.	180 183 183 184 184 184 185 185 186 187 188 188
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States . Alfred Peet . Erna Knutson . George Howell . Howard Schultz . Mary Williams. David Schomer.	180 183 183 184 184 184 185 185 185 186 187 188 189 190
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States Alfred Peet . Erna Knutson . George Howell . Howard Schultz . Mary Williams. David Schomer. Ted Lingle .	180 183 183 184 184 184 185 185 185 186 187 188 189 190 190
Chase and Sanborn. The Italians and Their Coffee Heritage. Angelo Moriondo. Luigi Bezzera Desiderio Pavoni . Pier Teresio Arduino . Making Waves in the United States . Alfred Peet . Erna Knutson . George Howell . Howard Schultz . Mary Williams. David Schomer.	180 183 183 184 184 184 185 185 185 186 187 187 189 190 190 191

Examining Café Culture, Espresso, and Competitions	191
Gianni Cassatini	192
Reg Barber	192
Rex Tseng and Aaron Takao Fujiki	192
Andrew Milstead	193
James Hoffmann	193
Matt Perger	
Colin Harmon	
Ryan Soeder	195
Andrea Allen	
CHAPTER 14: Looking at Where Coffee Is Today	197
Brewing Coffee at Home	198
Finding coffee today	
Keeping it fresh	
Making use of some new and exciting gear	
Making Espresso at Home	
The machine.	
The espresso grinder	
Stepping Out — Drinking a Cup of Coffee Away from Home	
Finding More Information about Coffee Today	
and in the Future	211
Focusing on the Specialty Coffee Association	211
Looking online	212
Listening to podcasts	213
Perusing books and magazines	214
DADT 7. THE DADT OF TENC	
PART 7: THE PART OF TENS	
CHAPTER 15: Ten (or So) Myths about Coffee Debunked	217
Coffee Is Loaded with Caffeine	217
Coffee Has Tons of Calories	218
Coffee Is Bad for You	219
Decaf Coffee Isn't Real Coffee	220
Instant Coffee Is Disgusting	220
Coffee Makers Only Need a Quick Rinse to Clean	
All Coffee Tastes the Same.	
The Coffee Industry Doesn't Have Any Innovation	
Climate Change Doesn't Affect Coffee	
CHAPTER 16: Ten (Plus One) Places to Find a	
Great Cup of Coffee	າາ⊏
•	
San Francisco and the Bay Area	
Portland, Oregon	
Seattle, Washington	227

New York City	
Vienna, Austria	
Rome, Italy	
Oslo, Norway	
Reykjavik, Iceland	
Taipei, Taiwan	
Melbourne, Australia	233
Addis Ababa, Ethiopia	
Japan	
PART 8: APPENDIXES	237
APPENDIX A: Glossary	239
APPENDIX B: Timeline of Key History of Coffee	251
INDEX	

Introduction

offee has been around a long time, but the past 50 years have witnessed a monumental transition. I've spent most of my life drinking coffee, instructing others photography, and teaching coffee. I've lived through this dramatic change as specialty coffee has made drinking coffee so much more nuanced.

You may have encountered a virtually foreign language, extensive paraphernalia, and an often occurring, kind of know-it-all arrogance by some people when you're buying beans and beverages. Trying to navigate and understand the world of coffee doesn't seem to get any easier.

Yes, coffee can include not only cream and sugar, but also confusion, a multitude of questions, and even misleading marketing to name just a few, and that's a shame. But with a bit of curiosity and minimal effort, you can start to increase your coffee confidence and feel better about the ordering language, the broad and remote world where coffee comes from, and even your own at-home barista skills.

As soon as you realize and embrace it, the wonderful world of coffee can make for joyous discovery and endless enjoyment. That world — growing it, processing it, roasting it, brewing it, and on and on — is always changing, growing, and adapt-ing. Get ready for a ride that will help you fully appreciate this miraculous thing called coffee.

About This Book

Coffee For Dummies covers a wide range of the ever-changing and broad world of coffee and what I think is important to know. I cover some of these topics within these pages:

The history of coffee: You can find out when and where coffee began and what has happened in its centuries of existence. The history of coffee is rich with intrigue, romance, and innovation.

- Sourcing coffee: Coffee comes from quite a few interesting places in the world and where you're living probably isn't one of them. Growers and buyers meet up in some remote parts of the world as they begin the process of supplying coffee. Understanding what they do can help explain a lot about why coffee tastes a certain way or why you may like one coffee over another.
- Roasting coffee: Sourcing delivers the green coffee bean into a roaster's hands. Without those roasters you'd just have a hard green coffee bean. The roaster is the scientist and artist whose skill is transforming that green bean into what can be ground, brewed, and enjoyed. Knowing about roasting explains a lot about your coffee likes and dislikes.
- Preparing coffee and espresso: The final moments for the roasted coffee beans are most important. Although it sometimes seems that a great deal goes into making the end product in the best way — one that highlights all that the coffee has to offer — it's really rather a simple process.
- >> Looking at coffee today: Some intriguing and courageous people have helped build the foundation of today's coffee world and getting to know a few of them helps to explain that world and can also help you make your decisions about coffee. If your curiosity is piqued and that coffee world is increasingly intriguing, you can read about ideas where you might turn next.

This book intends to share just what you need to know about coffee so you can appreciate it more. The bottom line is to help you make an even greater tasting coffee than you're creating today and to share some additional information pathways for you to explore. I clarify the coffee jargon and explain the terms baristas and coffee aficionados use so you can understand them. I've based the content on my experiences as a coffee lover and consumer, and on my experiences I've had as a coffee teacher.

Foolish Assumptions

I assume you're exploring this book for at least one of these reasons:

- >> You don't know too much about coffee, but you want to find out more.
- You do know something about coffee, perhaps more than most people, but you recognize there is so much more, and you want to understand some of that other stuff.

- You want to figure out how to brew the perfect cup of coffee or shot of espresso to share with your friends and family.
- >> You're well-informed about coffee, but you've recognized you could discover more.

Icons Used in This Book

The pictures in the margins of this book are called icons, and they point out different types of information.



This icon points outs text that can enhance either your knowledge, skill, or craftsmanship.



This icons marks those helpful tidbits of info you can ponder again and again as your coffee knowledge expands.



I've been shocked (yes, real electricity shocked) and burned, and I call out a risk or two to help you avoid the same mistakes I've made. Keep an eye out for this symbol, especially in brewing.



WEB

This icon points out interesting chunks of information you can find online about different aspects of coffee.



This world of coffee can be intensely complex, but sometimes the line between knowing and geeking out needs a bit of clarification. This icon notes info that may be super interesting, but it's not essential to understand what you need to know about everything coffee.

Where to Go from Here

This book is an easy-to-use reference. You don't have to read it from cover to cover for it to make sense and be useful to you. Simply turn to the chapter or section that interests you and dig in. If you want an overview of all things coffee, start with Chapter 1, so you're grounded in the big picture.

If a new café or coffee shop in your neighborhood is an imminent destination and the drink names have been a stumbling block, turn to Chapter 12. If you have an upcoming trip scheduled and coffee touring might be possible in the city in which you're headed, check out Chapter 16 to see if your destination is on my list. Or, if you want to brew your own coffee or espresso, go to Part 5. If you're not sure where to begin, scan the Table of Contents or index, find a topic that piques your interest, and start there. If you simply have an insatiable curiosity about some aspect of coffee beyond all the others, dive in anywhere you want.

For additional information online, check out www.dummies.com and search for the "Coffee For Dummies Cheat Sheet" to find a resource you can refer to again and again.

Getting Started with Coffee

IN THIS PART . . .

Understand the basics of coffee, including where coffee beans are grown, how coffee is roasted, how you can make a great cup of coffee, and more.

Satisfy some of your most pressing questions about coffee's taste and where it comes from.

Travel to a coffee farm and encounter a by-product of processing that isn't coffee but reveals a key element important in modern coffee farming.

Clarify some of those coffee shop terms that may have confused you so you can simplify buying coffee.

- » Discovering the characteristics of coffee
- » Grasping a process that includes sourcing, processing, roasting, and brewing
- » Exploring the links that exist between coffee's early history and the coffee world today
- » Seeing coffee as an agricultural product

Chapter **1** Demystifying Coffee: Just the Basics

offee and all that its world encompasses today can be confusing. I toss the word *coffee* around rather cavalierly and use it to define quite a few things — a drink, a bean, a crop, an industry. It used to be far easier, and if you're old enough, you probably remember the biggest decision was whether you wanted cream and sugar or black. The story is quite different today as the industry has exploded and, in that growth, it has become immensely confusing. I want to make it easier so you just might start to understand it better, gain a bit more confidence with it, and in the end, enjoy that coffee experience way more.

This chapter serves as your jumping-off point into the world of coffee. Whether you like it with cream and sugar, with just a little cream, with steamed milk, with some syrup and whipped cream, or just black, you can find the basics in this chapter and then dive into the rest of this book for more details in your search of the perfect cup.

Understanding What Coffee Is (and Isn't)

Coffee is right up near the top of the list of the most consumed beverages in the world. (It actually ranks third behind water and tea.) But before it gets to your cup, it's a significant, globally grown agricultural crop that represents a livelihood to millions of people around the world.

Coffee is all the following:

- >> A seed (the bean), well protected in a layered fruit (the cherry).
- Put through one of a number of distinct processes in order to get to the seed at the center. Whichever process is used plays a big part in its eventual taste. (Refer to Chapter 2 for more about the different processes and how they can affect the taste of coffee.)
- An annual crop and, like wine, a different crop every year, even if it's from the same place. (The chapters in Part 3 look at the different places in the world where coffee is grown.)
- Significantly impacted by environmental conditions, such as temperature, rainfall, and where it grows. Refer to Chapter 2 for more info on coffee growing and the impact the environment has on it.

Coffee isn't any of the following:

- >> Easy to grow.
- >> Easy to harvest and process.

Chapter 2 explains in greater detail how coffee is grown, harvested, and processed to show you how delicate the multiple steps are that get the bean from inside the cherry.

Appreciating Coffee — from Its Past to Today

To better understand coffee today, it's useful to look at where it came from. With a history spanning across centuries as well as the globe, coffee is more easily understood when you know some of its historical background. That history has witnessed romance, revolution, discovery, and turbulent change, all of which have led to coffee being what it is today. The following sections give you a snapshot of important historical developments that have led the coffee industry to its present state.

A world of farms and fickle crops

At its most basic, coffee is a precious miracle of nature. Although it's scientifically classified in a rather confusing hierarchy of names, here I focus on two types of coffee crops:

- Arabica: Represents about 70 percent of what is grown and consumed around the world and is the type seen most prominently in the gourmet or specialty coffee business. Arabica is difficult to grow because it needs elevation and is easily impacted by insects and disease. Even if everything goes perfectly in a crop year, the yield with Arabica is limited. Arabica is the type that has the best taste though, with complexities and flavors that are unrivaled.
- Robusta: This would be the ideal type of coffee because it has greater yield per tree than Arabica, isn't as susceptible to insects or disease, and grows at any elevation. Unfortunately, it's known for its harsh taste characteristics, and even though a significant quantity is grown, processed, and consumed, it isn't considered specialty or gourmet.

Chapter 2 digs in to the specifics of the fruit and delves deeper into the differences between Arabica and Robusta.

The cherry is picked annually, and it yields seeds. About 95 to 97 percent of the time, each fruit has two seeds; 3 to 5 percent of the time, it has a peaberry. A *peaberry* is the seed of a cherry that has only grown one inside. Multiple decisions regarding growing, often driven by long-standing practices, availability of water, and technology, determine how the trees are raised, how their fruit is collected, and finally how the seed inside that fruit, the coffee bean, is handled. These factors all have a significant impact on the taste of the coffee when it gets to you, the consumer.

Going back to coffee's roots

An almost inadvertent discovery by some goats and their herdsman might just have started it all. Whether this story is truth or fable, the centuries that followed that discovery certainly saw coffee rise as a brewed beverage that inspired passionate interest and dialog. Religious leaders, politicians, and artists played a part in the development of the beverage's refinement and a burgeoning café society. Cultures across time and the globe seem to have been imbued with coffee and its side effects. Furthermore, industrial and cultural revolutions, coupled with the growth of coffee consumption across all demographics, put coffee at the forefront of change. An industry sprang up from those changes as entrepreneurs recognized a wide-open frontier and major opportunities. Chapter 3 examines the history of coffee — where people started drinking it and how the business of coffee started.

Examining coffee and roasting today

Coffee in modern times really began with a vision and a dream in the late 1960s. A transition occurred that involved a small group of entrepreneurs taking a different approach. Specifically they began focusing on origin (where the coffee is grown), quality, craft roasting, and taste as fundamental to their coffee work. Like many entrepreneurial adventures, that of coffee is wonderfully woven into a kind of art and science, and roasting coffee is central to and representative of that. I discuss how coffee roasting has evolved in Chapters 9 and 10.

Traveling Worldwide — Where Coffee Is Grown

I realized early in my journey with coffee that I was challenged by global geography. The equator and the continents were easy to recognize, but the names and locations of countries, borders, mountains, lakes, and streams quickly became overwhelming as I learned more about coffee. I also found that geography established connections to the perceived quality and inherent characteristics linked to taste.

Add to all that the crucial environmental elements, because growing coffee requires Mother Nature's cooperation. The following are important aspects of climate:

- >> Temperature
- >> Rainfall

- >> Soil conditions
- >> Sun, shade, and wind

I survey these aspects in greater detail in Chapter 5. Meanwhile, the following sections look at where coffee is grown in the world to help you understand how many places coffee comes from.

Visiting the Western Hemisphere

In the Americas, coffee has been grown successfully in several countries, both large and small. Chapter 6 provides more in-depth information about these places.

Central America

Some of these smaller countries feature a few of the most noteworthy coffees and coffee success stories of the last century:

- Costa Rica: Known as the Switzerland of Central America, Costa Rica offers a perfect environment for growing coffee. Peace and neutrality have allowed for the development and growth of an envied coffee infrastructure. Figure 1-1 shows a Costa Rican coffee farm.
- El Salvador: Societal development, the coffee industry, and cultural growth in El Salvador both benefited and suffered together over the past 25 years, and a solid but still not fully realized coffee opportunity exists there.
- Guatemala: This country is the source of some of the most exquisite and treasured coffees in the world.
- Honduras: This country has a burgeoning coffee industry and an increasing premium crop production.
- Mexico: One of the world's top ten coffee producers, Mexico features diverse, mountainous terrain and an equally diverse range of potential flavor profiles.
- Nicaragua: Although coffee is a principal crop in Nicaragua, an opportunity remains for both increased output and better quality.
- Panama: The famed Boquete Valley, and an interest and investment in producing the Geisha varietal, have cemented Panama's reputation for amazing coffees.



FIGURE 1-1: Costa Rica has great coffee farms.

Photo by Major Cohen

South America

An almost perfect coffee-growing climate and vast land made South America a prime spot for cultivating a relatively new crop all the way back in the 1700s. Today it's home to Brazil and Colombia, the top coffee producers in the world for annual production. Here are countries in South American known for coffee production:

- Bolivia: A forest called the Yungas in the Andes Mountains is home to some strikingly beautiful, high-elevation coffee farms. Despite Bolivia having a past reputation for lower-quality output, the industry is watching and waiting to see what the future holds.
- Brazil: The largest coffee producer hasn't always been the best, but Brazil has focused on fine-tuning its crops; some prodigious infrastructure efforts and a significant goal to be a top premium coffee source have spurred a resurgence.
- Colombia: Famous thanks to stellar marketing and some beautiful coffees, Colombia is thought by many to be "the most coffee" of coffees when it comes to flavor in the cup.
- Ecuador: Small farms in the Andes are producing limited quantities, but there's currently hope for infrastructure investment, because coffee in Ecuador has considerable potential.

- >> Peru: A diversity of growing regions in this country has resulted in a wide variety of intriguing flavor profiles.
- >> Venezuela: At one time, Venezuela had a coffee output that was comparable to its high-production neighbors. However, Venezuela's diminishing output has really taken away from the country's coffee exports, and so most of the interesting and good-quality crop is consumed in country.

The Islands

With striking mountainous regions and situated perfectly in the tropical climate of the equatorial belt, these islands have history and heritage in coffee. Three are in the Caribbean Sea and one is in the Pacific Ocean, but all continue to have tremendous potential and some considerable pedigree as coffee growing origins:

- Cuba: Although Cuba has been growing coffee since the mid-18th century, the political situation has all but eliminated any output from what is a coffee-growing environment with true potential.
- Dominican Republic: This is another country with a long-established history of coffee farming and recognized potential for investment and renewed effort.
- Hawaii: These islands host some of the most beautiful coffee farms and celebrate production of some of the most favored and pricey coffees in the world.
- >> Jamaica: The famed Blue Mountains, which are located in the eastern third of the island, are home to coffee farms with a heritage that dates back to 1723 and French King Louis XV. King Louis sent three plants as a gift to Martinique, and five years later the governor of Martinique gave one of those as a gift to Jamaica's governor.

Heading to Africa

Home to the birthplace of coffee, and centuries later some of the most powerful stories of human perseverance and resilience, Africa today is an important frontier for innovation and growth in the coffee industry. Here are the countries in Africa that are known for coffee (Chapter 7 takes a closer look at coffee in Africa).

Northeast Africa

The Great Rift Valley, Mt. Kenya, and the Ethiopian Plateau combine to establish a splendid geography for coffee production in these two countries:

Ethiopia: The birthplace of coffee, Ethiopia is home to a long-standing, established culture that is centered on coffee and its place in community. Ethiopian coffees are some of the most exotic in the world.

Kenya: Although not the largest in terms of output among the African coffee countries, Kenya is certainly recognized and celebrated for its unusual and often high-quality, noteworthy coffees with unique flavor characteristics all their own.

Southern Africa

This region is home to countries that are often seen as having the greatest potential in the industry, as development and innovation are alive there. Following are the main coffee producers in southern Africa:

- Burundi: An on-again, off-again approach has impacted Burundi's coffee consistency; despite that, this small country is often the source of some unique offerings.
- Congo: Some refreshingly bright and flavorful coffees have come out of Congo in recent years.
- Malawi: Despite the fact that this country has experienced turbulence linked to political instability, Malawi still has been able to export some tasty coffees that have found their way to consumers in Europe and the United States.
- Rwanda: Highly respected for their response to the tragedy of genocide in the 1990s and the ensuing focus on coffee as a key to a brighter, more prosperous future, Rwandan coffee growers have established a reputation for producing some terrific coffees.
- Tanzania: Mount Kilimanjaro and Mount Meru are home to some highly regarded coffee farms, and coffee plays an important role in Tanzania's economy.
- Zambia: A small country with a growing interest in expanding its coffee industry, Zambia is another country with potential — one to be watched.

Heading to the Eastern Hemisphere

Perhaps the most remote and exotic environments for coffee growing exist in the region known as the Asia Pacific. Head to Chapter 8 for more information about coffee in Asia.

Consider coffee in the following countries:

- China: Although coffee production in China didn't really begin in earnest until the late 1980s, what has been developed, primarily in the Yunnan Region, has been impressive, and green coffee buyers now recognize coffee from China as having huge potential.
- India: An incredibly long history of both coffee and tea production has made India a long-standing and important source of both beverages.
- Indonesia: The thousands of islands that make up Indonesia include a few that have established an enduring and respected place in the world of coffee.
- Papua New Guinea: Coffee represents an important export for Papua New Guinea, and the industry began here with the importation of coffee seeds from the Jamaican Blue Mountains in the early 1920s.
- >> Vietnam: The number-two coffee producer in the world, Vietnam has made progress in establishing itself as a source for quality and not just quantity over the past few decades, and so high-quality coffee exports from this country are being noted more than ever.
- Yemen: Coffee dates way back to the 6th century in Yemen. The Arabian Port of Mokha, a Yemen coffee variety called Mocha, and a drink named Mocha all contribute to the confusion, but there is no denying that Yemen has been the source of some of the greatest coffees.

ROASTING: WHERE IT STARTED

Roasting has seen some incredible technical advances in the past century. At its core, this simple concept has been developed and refined since someone, long ago, realized that the coffee seed, when roasted, ground, and steeped, created a flavorful, powerful beverage. Although that realization occurred centuries ago, the industry that developed around coffee roasting took some time to get going.

A few beans tossed in a frying pan over an open fire may seem almost too elementary, but that's an appropriate way to think of the beginning of coffee roasting. Speed, efficiency, and quantity drove interim change until finally, a focus and prioritization to use the art and science for the best tastes have prevailed.

In Chapter 9, I dig into the history of roasting and the beginnings of the business that is coffee.

The Lowdown on Roasting Coffee

Take a raw, green seed, and heat it up until it turns a shade of brown. Sounds easy unless the seed is a coffee bean, and you begin to grasp the impact roasters can have on the end result (the flavor qualities and characteristics) as they ply their trade, a skilled combination of artistic creativity and sound science.

Here are the basics to roasting coffee:

- ➤ Early roasters prioritized decisions around speed, efficiency, and economics thinking that their path from a green, raw, unroasted seed of a fruit that is, how they might raise or lower temperature to affect the time it took to reach the color of brown they were after was about using less fuel to heat or less time spent by the person doing the work. Not until the beginnings of specialty coffee (refer to Chapter 4) did roasters begin to understand and target the desired flavors by adjusting the time and temperature continuum and by all but ignoring the earlier priorities of speed, efficiency, and economics.
- If great flavor is the vision and established goal, then there is neither a correct result nor a wrong one.
- The entire process takes only minutes, but within that time frame are multitudes of decision points when the roaster draws on experience, an aesthetic connection to the process and intended goal, and a scientific expertise that drives confidence throughout a delicate dance with fire.

I jump deeper into the details of roasting in Chapter 10.

Examining Brewing

All the steps that have contributed to get the coffee bean expertly roasted are incomplete without a transition to a consumable and hopefully delicious beverage. Through brewing, coffee drinkers finally get what they're after.

The following list shows some of the ways in which coffee is brewed:

Cupping: This is the industry standard for assessing coffee. Cupping refers to a brewing method where precisely ground coffee is placed in contact with hot water, and extraction happens. After a carefully measured brew time, the grounds have sunk in the bowl or cup, and someone (a cupper) tastes it. Although it's a complex, somewhat impractical method for a daily morning coffee ritual, it's undeniably the best way to brew, compare, contrast, and eventually assess multiple coffee samples.