

OFF

FLAVORFUL BEANS • BARISTA TECHNIQUES MORE THAN 100 GLOBAL RECIPES

SESS.

Anette Moldvaer

COFFEE OBSESSION





COFFEE OBSESSION







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A NOTE ON THE MAPS: See page 224

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INTRODUCTION

CAFÉ CULTURE.

For millions all over the world, sitting in a café with a delicious coffee is one of life's great pleasures. Elevating this experience is the specialty café—where a skilled barista can make you a good-quality coffee, just how you like it.







THE CAFÉ EXPERIENCE



Cafés are at the heart of established traditions that go back centuries—from the café au lait in a Parisian café to the bottomless coffee mug in a Texas

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diner. More of us frequent cafés than ever before, thanks to coffee's flourishing popularity in China, India, Russia, and Japan. Even though drinking coffee is just a normal part of everyday life for many, it is still a new and exciting experience for countless others.

With this fresh passion for coffee, every day an increasing number of specialty cafés open around the world. Visiting such cafés, where you can experience an array of varieties, roasts, and styles, is no longer just for coffee connoisseurs. For anyone who appreciates the value of quality, sustainability, and care, a specialty coffee house is the perfect place to socialize, explore new flavors, and soak up a unique atmosphere.

COFFEE IS JUST PART OF LIFE FOR MANY, BUT FOR SOME IT IS A NEW AND EXCITING PHENOMENON

CAFÉ CULTURE

THE CAFÉ ETHOS

It is so easy to take coffee's long journey from farm to cup for granted. Not everyone is aware that a coffee bean is the seed of a fruit, or that it needs to be roasted before it can be ground and brewed. An increasing number of cafés treat coffee as the fresh, seasonal product that it is, and promote it as an ingredient and a drink that takes skill to grow and prepare. They highlight and celebrate the vast range of unique flavors out there, helping to reveal the provenance and human story behind the beans.

Thanks to specialty cafés, coffee lovers are becoming aware of the complexities of production, trade, and preparation. The challenges growers face—with low prices and a treacherous commodity market—have spurred an increasing demand for sustainably traded coffees. The concept that "quality costs more" has long been acceptable when it comes to food and wine, and rapidly consumers are realizing that the same rule should apply to coffee.

While the balance between supply, demand, cost, and ecology is one that remains challenging and unpredictable, specialty coffee companies lead with a focus on quality, transparency, and sustainability. With such an increasing cultural shift that focuses on coffee cultivation and preparation, specialty cafés are more important than ever.





THE BARISTA

A barista in a specialty café is akin to a sommelier in the world of wine. He or she is a professional with expert knowledge, capable of advising you on how to prepare coffee in a way that

not only gives you a caffeine kick, but also makes it taste interesting, exciting, and, most importantly, good.



THE JOURNEY OF COFFEE

The history of how coffee spread across the world is a story of a world changing. It is a story of religion, slavery, smuggling, love, and community. Although gaps remain, we can trace its journey with the help of both fact and legend.

EARLY DISCOVERIES

Coffee was discovered at least 1,000 years ago. No one knows for sure, but many believe that the origins of Arabica lie in South Sudan and Ethiopia, and that Robusta was born in West Africa.

Even before the seeds were roasted, ground, and brewed to make the coffee we drink today, coffee cherries and leaves were used for their invigorating properties. Traveling herders in Africa mixed coffee seeds with fat and spices to create "energy bars" for the long periods of time spent away from their homes. The coffee leaves and cherry skin were also boiled to create an invigorating, caffeine-rich infusion.

It is thought that coffee was carried to Yemen and Arabia by African slaves. In the 1400s, Sufis drank a tea made from coffee cherries called "guishr" or "Arabian wine" that helped them to stay awake during nightly prayers. The news of its stimulating effects spread, and spaces opened where traders and scholars could drink and interact freely, known as "schools for the wise." Some people worried that guishr was incompatible with religious beliefs, but these early cafés stayed open and increased coffee's popularity. By the 1500s, Arabs had started to roast and grind the cherry beans to create a coffee much like that we enjoy today, which spread to Turkey, Egypt, and North Africa.



COLONIAL SPREAD

The first to trade coffee, the Arabs were so protective of their coffee that they boiled the beans so that no one else could cultivate them. **However, in the early 1600s, a Sufi smuggled seeds from Yemen to India** and a Dutch trader smuggled seedlings from Yemen and planted them in Amsterdam. By the end of the 17th century, coffee had been planted in the Dutch colonies, particularly throughout Indonesia.

Holland

The Caribbean and South American colonies planted coffee in the early 1700s. The Dutch gave seedlings as a gift to the French, who took them to Haiti, Martinique, and French Guiana. The Dutch planted their coffee in Suriname, and the British brought coffee from Haiti to Jamaica.

In 1727, the Portuguese sent a naval officer from Brazil to French Guiana to bring back coffee seeds. Legend has it that he was denied, so seduced the Governor's wife, who smuggled them to him in a bouquet spiked with seedlings.

From South America and the Caribbean, coffee spread to Central America and Mexico. Toward the end of the 1800s, coffee seedlings were returned to colonies in Africa.

Today, coffee production has also spread to new areas of the world, particularly Asia.

• BRAZIL TO EAST AFRICA • RÉUNION TO EAST AFRICA

East Africa

Vemen

1700s

France

- FRANCE TO HAITI, MARTINIQUE, FRENCH GUIANA, AND RÉUNION ISLAND
- RÉUNION TO CENTRAL AND SOUTH AMERICA
- MARTINIQUE TO CARIBBEAN, CENTRAL AND SOUTH AMERICA
- HAITI TO JAMAICA
- FRENCH GUIANA TO BRAZIL

WITHIN A FEW HUNDRED YEARS, COFFEE HAD REACHED AROUND THE WORLD, FIRST AS A BEVERAGE, THEN AS A COMMODITY

Réunion

Island

India

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SPECIES AND VARIETIES

As with grapes for wine and hops for beer, coffee cherries come from a tree that has numerous species and varieties. Although only a few of these spread across the world, new varieties are continually being cultivated.

COFFEA SPECIES

The genus of this flowering tree is called *Coffea*. A modern way of classifying *Coffea* is evolving, as scientists continually discover new species. Nobody knows exactly how many there are, but to date, around 124 species of *Coffea* have been identified—more than double that of just 20 years ago.

Coffea species are found growing wild, mainly in Madagascar and Africa, as well as in the Mascarene Islands, Comoros, Asia, and Australia. Only the species *C. Arabica* and *C. Canephora* (commonly known as Arabica and Robusta) are widely grown for commercial purposes, representing around 99 percent of production worldwide. It is believed that *C. Arabica* came from a cross of *C. Canephora* and *C. Eugenioides* that happened around the border of Ethiopia and South Sudan. Some countries also grow small amounts of *C. Liberica* and *C. Excelsa* for local consumption.

ARABICA AND ROBUSTA VARIETIES

There are many cultivated varieties of Arabica. Records of how it spread around the world are incomplete and sometimes conflicting, but of the thousands of native varieties in Ethiopia and South Sudan, only a few were taken out of Africa, first to Yemen, and from there to other countries (see pp10–11).

These trees were referred to as Typica, a generalized name for "ordinary" coffee. Typica trees planted in Java were the genetic starting point for the trees that spread to the rest of the world. Bourbon, another of our earliest known varieties, was a natural mutation of Typica that took place from around the mid-18th to the late 19th century on Bourbon Island, now known as Réunion Island. Today, most varieties are natural or cultivated mutations of these two varieties. *C. Canephora* was native to West Africa. From the Belgian Congo, seedlings were also planted in Java. From there it spread across the world, to nearly all of the Arabica-producing countries. There are several varieties of the species, but they are all commonly referred to as simply Robusta. In addition, Arabica and Robusta have been cultivated together to create new varieties.

The look and flavor of coffee is influenced by many forces, such as soil, sun exposure, rainfall patterns, wind patterns, pests, and diseases. Many varieties are genetically similar, but have acquired different regional or local names. This makes it difficult to map accurately the development of Arabica and Robusta, but the family tree (overleaf) shows some of the most commonly grown varieties of these species.

SPECIES AND VARIETIES 13

THE COFFEA GENUS

Sun exposure Most varieties prefer shade or semi-shade. Some are developed to tolerate full sun exposure.

Rainfall patterns

Whether a farm receives frequent showers throughout the year or is in an area with defined wet and dry seasons, rainfall patterns determine flowering times.

Wind patterns The movement of hot and cold air influences how the coffee cherries mature and taste.

COFFEA

Kingdom: Plantae **Class:** Equisetopsida Subclass: Magnoliidae Superorder: Asteranae **Order:** Gentianales Family: Rubiaceae Sub family: Ixoroideae Tribe: Coffeeae Genus: Coffea Main commercial species: Coffea Arabica and Coffea Canephora (commonly known as Robusta)

> **Cherry clusters** Coffee cherries mature in clusters along the branches.



Overripe coffee cherry Cherries sweeten as they deepen in color. but turn bad quickly.



Each cherry contains mucilage, parchment, and seeds (see p16).

Coffee flowers These flowers are sweetscented, reminiscent of jasmine.

Unripe coffee cherry Cherries grow to full size as green. hard fruit.

Softened coffee cherry Ripe coffee cherry The fruit slowly changes color and softens.

Most cherries turn red. although varieties exist.

THE FAMILY TREE

This simplified tree helps to explain the key relationships in the coffee family. As botanists discover new species and varieties with interesting flavors and properties, the family tree continues to grow and develop.

More research is needed before we can show the relationships between all coffee varieties in existence, but this illustration shows four of the species in the Rubiaceae family: Liberica, Robusta, Arabica, and Excelsa. Of these four species, only Arabica and Robusta are commercially grown (see pp12–13). Robusta varieties, largely considered to be of lower quality than Arabicas, are known simply as Robustas.

From the main branch of the Arabica species stem the Heirloom varieties, as well as Typica and Bourbon varieties and their crosses. Robustas are also occasionally crossed with Arabica to create hybrids.

HYBRIDS

Rasuna Catimor + Typica Arabusta Arabica + Robusta Devamachy Arabica + Robusta Hibrido de Timor/TimTim/BorBor Arabica + Robusta Icatu Bourbon + Robusta + Mundo Novo Ruiru 11 Rune Sudan + K7 + SL 28 + Catimor Sarchimor Villa Sarchi + Hibrido de Timor

C.CANEPHORA (ROBUSTA)

WHAT'S IN A NAME?

Arabica varieties are often named after areas in which they were first identified, so are known by many local names and spellingsfor example, the Geisha variety is also known as Gesha or Abyssinian. **C.LIBERICA**



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GROWING AND HARVEST

The coffee tree is an evergreen. It grows in about 70 countries that offer suitable climates and altitudes. The trees are cultivated with care, and grow for about 3–5 years before they flower and produce fruit, known as coffee cherries.

Coffee cherries are picked from the tree during harvest-they contain two seeds, which after processing (pp20-23) become coffee beans. The main commercially grown coffee tree species are Arabica and Robusta (see pp12-13). Robustas are high-yielding and resistant to pests and diseases, producing coffee cherries with rustic flavor. They grow from cuttings that are planted in a nursery for a few months before they are moved out to the fields. Growers propagate Arabica trees from seed (see below), which produces coffee cherries that are generally superior in flavor.

5 MONTHS

GROWING ARABICA

Seeds are picked from ripe cherries grown on healthy Arabica trees ("mother trees"). These are planted and begin the growing process.

A seed is planted in a nursery. The cherry skin and pulp is removed before planting, but the parchment is left on. 3 MONTHS

As the seed germinates, it sends out a taproot and supports itself, creating a seedling that is fondly referred to as a "soldier."

Silverskin _ is an outside thin layer.

Mucilage or pulp is ______ a sticky, sugary layer between the parchment and the cherry skin. **Parchment** is the outside protective shell.

Each cherry contains two seeds– after they are processed, these are known as "beans" (see pp20-23). The seeds develop with flattened facing sides. Rarely, only one of the two seeds is fertilized, and the single seed develops with nothing to flatten it. This oval (or pea-shaped) speciality seed is known as a Peaberry.



4 MONTHS

GROWING AND HARVEST 17

GROWING CONDITIONS AFFECT THE QUALITY OF THE COFFEE—THE FLOWERS AND CHERRIES ARE SENSITIVE TO STRONG WINDS, SUNLIGHT, AND FROST

9 MONTHS

This "soldier" grows into a small tree with 12-16 leaves before it is planted in a field.

Soil protects the roots as the tree is replanted.

The tree is left to mature for at least 3 years until the first flowering takes place.

3-5 YEARS



The coffee cherries ripen on the branch, deepening in color, until they are ready for harvest (see overleaf). The best-quality coffee cherries grow under shade or cloud cover. Near the equator, higher altitudes are needed to help reach the right temperature.



These flowers mature into coffee cherries.



18 INTRODUCTION

HARVEST TIME

Whatever the time of year, Arabica and Robusta are being harvested somewhere in the world. Some countries and regions harvest intensively once a year, others have two distinct harvest periods. Other areas have long seasons that last more or less all year.

Depending on species and variety, the trees can grow several feet high, but are usually pruned to about 5ft (1.5m) high to facilitate picking, as this

TREES AND YIELD

One healthy Arabica tree produces about $2^{1}/_{4}$ -11lb (1-5kg) of coffee cherries in a season, provided it is well cared for. You normally need about $11-13^{1}/_{4}$ lb (5-6kg) of coffee cherries to make $2^{1}/_{4}$ lb (1kg) of coffee beans. Whether



UNRIPE ARABICA CHERRIES There are 10–20 large round Arabica coffee cherries per cluster. They fall off the branch when ripe, so farmers carefully monitor and pick frequently. Trees can reach 10–14ft (3–4m) in height. is mostly done by hand. Harvesters pick in one pass or several passes—stripping unripe cherries, overripe cherries, and everything in between in one go; or picking only the ripest cherries and returning to the same tree several times throughout the harvest season.

Some countries use machines that strip the branches or that gently shake the trees, causing the ripest cherries to fall off to be gathered.

stripped or selectively hand- or machine-picked, the coffee cherries are subjected to several stages of wet and dry processing (as shown on pp20–23), before the coffee beans are categorized according to quality.



RIPE ROBUSTA CHERRIES These trees reach up to 33–40ft (10–12m) in height. Pickers may use ladders to reach branches. There are 40–50 small round coffee cherries per cluster, which do not fall to the ground when ripe.

ARABICA VS ROBUSTA

The two main species of coffee tree have different botanical and chemical features and qualities. These dictate where they will naturally thrive and offer a sustainable crop, as well as how the coffee beans will be categorized and priced. These features also indicate a particular flavor profile.

FEATURES	ARABICA	ROBUSTA	
Chromosomes An Arabica tree's genetic structure helps to explain why its coffee beans are varied and complex in flavor.	44	22 Robusta beans	Ð
Root system Robustas have large, shallow roots that don't require the same depth and soil porosity as Arabicas.	Deep Farmers should allow 5ft (1.5m) between each tree, so that roots can spread comfortably.	Shallow At least 6ft (2m) is allowed between Robusta trees.	(B) (C)
Ideal temperature Coffee trees are susceptible to frost. Farmers must plant them in areas that don't get too cold.	60-80°F (15-25°C) Arabica trees need a temperate climate to thrive.	70-85°F (20-30°C) Robusta trees grow well in hot temperatures.	
Altitude and latitude Both species grow between the tropics of Cancer and Capricorn.	3,000–6,600ft (900–2,000m) above sea level High altitudes contribute to the required temperature and rainfall.	0–3,000ft (0–900m) above sea level Robusta trees don't require very cool temperatures, so grow at lower levels.	
Rainfall range Rain encourages trees to flower, but too much and too little can damage the coffee flowers and cherries.	60–100in (1,500–2,500mm) A deep root system makes Arabicas capable of thriving when top level soil is dry.	80–120in (2,000–3,000mm) Robustas require frequent, heavy rainfall, as their root systems are relatively shallow.	
Flowering period Both species flower following a rainfall, but there are contrasts depending on rain frequency.	After rainfall It is easy to predict when Arabica trees will flower, as they grow in regions with distinct wet seasons.	Irregular Robustas often grow in unstable, humid climates, and thus flower in a more irregular pattern.	
From flower to cherry time The time it takes for flowers to mature into ripe cherries is different for each species.	9 months It takes Arabica trees less time to mature, allowing more time between cycles to prune and fertilize.	10–11 months Robusta trees require a relatively slow and prolonged period to mature. Harvest time is less intensive.	
Oil content of beans Levels of oil are linked to aromatic intensity and so can give an indication of the quality.	15–17% High oil content lends a smooth and supple texture.	10–12% The low oil content of Robusta beans explains why Robusta espresso blends have a thick, stable crema.	
Sugar content of beans The sugar level changes as the beans roast, affecting how we experience acidity and texture.	6-9%	3-7% Less sweet than Arabica beans, Robustas can taste "hard" and bitter, leaving a strong, long aftertaste.	
Caffeine content of beans Caffeine is a natural pesticide, and so high levels can explain the hardiness of the coffee trees.	0.8-1.4% Arabica beans	1.7-4% This high content makes trees less susceptible to the diseases, fungi, and bugs that thrive in hot, wet climes.	

PROCESSING

To become beans, coffee cherries need to be processed. Processing methods vary around the world, but the main methods are dry process (often referred to as "natural") or wet processes (either "washed" or "pulped natural").

Coffee cherries are at their sweetest when fully ripe, and should be processed within a few hours of harvest to preserve their quality. Processing can make or break a coffee; it can ruin even the most carefully grown and picked cherries if it is not undertaken with care. There are many variations to this practice. Some producers process the cherries themselves if they have their own mills, they can retain control of the coffee until export. Other producers sell cherries to centralized "stations," who take care of the drying and/or milling process.

THE PREPARATION STAGE



PULPED NATURAL

4

The sugary mucilagecovered beans are carried or pumped onto drying patios and beds outside. They are spread out into 1–2in (2.5–5cm) layers, and are raked regularly to help them to dry evenly.



After a few days, a sugary sticky mucilage still covers the wet beans.

WASHED

4. The beans soak and ferment in these tanks for anything from 12-72 hours, until the mucilage breaks down and is washed off. There may be two soaks to bring out qualities in flavor or appearance. 5 Once all the pulp is removed, the clean parchment-covered beans are taken outside to dry on concrete or raised beds for 4-10 days. 6

5)

Producers sort through the parchment-covered coffee beans by hand, removing damaged beans and turning them over to help them dry evenly.

The coffee beans are left to

beans dry too guickly, it

shelf-life, and affects the <u>flavor</u> of the bean. In some

places, beans are machine-

causes defects. limits

dried in "guardiolas."

dry for 7–12 days, according to the climate. If the coffee



Once fully dried, the

parchment-covered coffee

beans look mottled with reddish or brown patches.



After they have dried in the sun, the cherries shrink further and turn brown.

IN GENERAL, THE WET PROCESSES HELP INHERENT FLAVOR ATTRIBUTES OF THE COFFEE BEANS TO SHINE THROUGH Once dried, the parchmentcovered coffee beans are uniform, clean, and a light beige color.

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THE DRY MILL STAGE

The dry natural coffee cherries and pulped natural/washed coffee beans rest for up to two months, before further processing at a dry mill.



PROCESSING 23

ONCE LOADED INTO CONTAINERS AND ONTO SHIPS, COFFEE BEANS TYPICALLY SPEND 2–4 WEEKS AT SEA ON THE WAY TO THEIR DESTINATION



24 INTRODUCTION

CUPPING

Many of us practice wine tasting, but wouldn't evaluate coffee in the same way. However, coffee tasting, known as "cupping," introduces you to unexpected and subtle flavors and helps you to identify and appreciate different coffees.

The coffee industry uses cupping to measure and control the quality of coffee beans a cupping bowl provides a snapshot of the beans, whether it's a "micro lot" of a few bags, or a "large lot" of several containers. Coffee is usually scored on a scale from 0 to 100.

It's an industry-wide practice—from the exporters or importers, to the roasters and the baristas. Professional cuppers work for coffee companies, sourcing, tasting, and choosing the best coffees in the world. There are even national and international cupping competitions where the best cuppers compete for awards. Increasingly, producers and millers cup at the very beginning of a coffee's journey, too.

Cupping is easy to do at home—you don't have to be a tasting expert to know what you enjoy or dislike about a cup of coffee. Building up a vocabulary to describe flavors takes practice, but cupping a range of coffees from around the world soon introduces you to some broad flavor groupings that you can refine with time.

WHAT DO I NEED?

Equipment

filter grinder digital scale

9fl oz (250ml) heatproof cups, glasses, or bowls (If you do not have cups of the same size, use a digital scale or a measuring cup to ensure all cups are filled with the same volume of water)

Ingredients coffee beans

HOW TO CUP

You can prepare just one cup of each coffee and explore its flavors, or try several side by side. You could cup with pre-ground coffee, but coffee tastes a lot fresher if you grind it yourself (see pp36–39).

Pour ¹/₄oz (12g) of coffee beans into the first cup or glass. Grind each dose of beans to a medium grind, pouring the coffee back into its cup (see Tip).

2 Repeat with the other beans, but "clean" the grinder by grinding through a tablespoon of the next type of bean before you grind the beans you'll actually be cupping.

Once all the cups are full of ground coffee, smell them, taking note of how the aromas compare.

TIP

Grind separately, even if you are cupping multiples of the same bean for others to try, so that if there is one defective bean among the dose, it will be isolated in one cup and not spread across all of the cups.

CUPPING 25

Bring your water to a boil, then let it cool down to about 200-205°F (93-96°C). Pour the water over the coffee, making sure it is fully saturated. Fill the cup all the way to the top, or use a scale or measuring cup to ensure you use the correct volume of water to beans.

5 Leave the coffee to steep for 4 minutes. In this time you can evaluate the aroma of the "crust"—the floating layer of coffee grounds—taking care not to lift or disturb the cups. Perhaps you'll find the aromas to be stronger, weaker, better, or worse from some coffees compared to others.

6 After 4 minutes, use a spoon to gently stir the surface of the coffee three times, breaking the crust and settling the floating grounds. Rinse your spoon in hot water between every cup so you don't transfer any flavors from one bowl to another. Bring your nose to the cup as you break the crust to catch the release of aromas, and consider if the positive (or negative) attributes you noticed about the aroma in step 5 have changed.

7 Once all the crusts are broken, skim off the foam and floating particles with the help of two spoons, rinsing them with hot water between each skim.

When the coffee is cool enough to taste, dip your spoon in and slurp the coffee from the spoon into your mouth with a little air, which helps to spread the aromas to your olfactory system and the liquid across your palate. Consider the tactile sensations of the coffee as well as the flavor. How does it feel on your palate: does it seem thin, oily, soft, rough, elegant, drying, or creamy? How does it taste? Does it remind you of anything you have tasted before? Can you pick out any flavors of nuts, berries, or spices?

9 Go back and forth between coffees to compare. Revisit them as they cool and change, and take notes to help you to categorize, describe, and remember what you're tasting. Water cools faster than you think, so pour as soon as it is the right temperature.





The crust should not collapse before you stir it—if it does, your water may be too cold or your roast too light.

Once the crust has been broken, use two spoons to help you skim the top of the coffee.



CONSIDER TACTILE IMPRESSIONS AS WELL AS THE FLAVOR—DOES IT FEEL SUPPLE, SYRUPY, DELICATE, GRITTY? HOW DO AFTERTASTES COMPARE? 26 FLAVOR APPRECIATION

FLAVOR APPRECIATION

Coffee offers an incredible range of complex aromas and flavors. Identify these subtleties of flavor to get the best from your coffee.

It is easy to improve your tasting palate with a little practice-the more you "cup" (see pp24-25), the easier it is to differentiate between coffees. These four flavor wheels act as prompts-keep them within easy reference to help you to identify and compare the aromas, flavors, textures, acidity levels, and aftertastes in coffee.

HOW TO USE THE WHEELS

First, identify key flavors using the large taster's wheel, honing in on specific profiles. Then, use the acidity, texture, and aftertaste wheels to help you to analyze physical sensations on the palate.

Pour your cup of coffee Breathe in through your nose, refer to the taster's wheel, and consider. Do you pick up hints of nuts, and, if so, are they reminiscent of hazeInut, peanut, or almond for example?

Take a sip Look at the taster's wheel again. Are there fruity notes, or nuances of spice? Ask yourself what is missing. as well as what is present. Identify broad groups, such as fruit, then move into more detail-decide if it's more like stone fruit or citrus. If citrus, is it lemon or grapefruit?

Red win Whisky Rum Corn Rice Straw

SMOKET DAIA

SUGARSHEE

ALCOHOLIC

Toast Tobacco

Butter

Hops

Cucumber

Fennel

Nettles

Peas

Green beans

Grass

Bell pepper

Olives

Green tea

Black tea Tomato

Ginger

Nutmeg

Coriander

Clove

Pepper

Anise Cardamom

Cinnamon

Malt

Milk chocolate

Dark chocolate

Maplesyup

Vanilla

10tee Caramel

Brown sugar

Molasses

Macadamia

Sesame

Honey

SPICY

VEGETAL

Peanut Pistachio



flavors you taste in coffee.

Swallow Does the taste linger for long or disappear? Is it a neutral aftertaste,

WELOW

BALANCED

CRISP

BRIGHT

TART

COMPLEX

DELICATE

SYRUPY

Texture

ELEGANT

VISCOUS

HARSH

SUPPLE

STRUCTURED

GRITTY

BUTTERY

ROUGH

Aftertaste

CLEAN

MILD

Acidity

WINE-LIKE INTENSE

or bitter and unpleasant? Decide if any of the terms in the wheel apply to your coffee.



COFFEE KNOW-HOW

INDICATORS OF QUALITY

Coffee companies use specific language on packaging to describe their coffeethis can occasionally be confusing and conflicting, if not outright misleading. Understanding the terminology makes it easier to choose the coffee you want.

IDENTIFYING BEANS

Some coffee packaging only describes coffee as either Arabica or Robusta (the two main coffee species, see pp12–13). This is the equivalent of telling you only if a wine is white or red; you just don't have enough information to make an informed purchase. Although Robusta is generally inferior to Arabica, labels that tout only "pure Arabica" are also a misleading indicator of quality. Great Robustas do exist, but they are hard to find, so buying Arabica is often

BLENDS VS. SINGLES

Both commercial and specialty companies often describe their coffee as either a "blend" or a "single origin." This description helps to explain the coffee's provenance—a blend is a mix of different coffee beans that creates a particular flavor profile, while a single-origin coffee is sourced from a single country or a single farm.

BLENDS

There are reasons why blends are popular, as they can create stable flavor profiles that remain consistent year-round. In the commercial sector, the ingredients and proportions in blends are closely guarded secrets, and the labels offer no indication of what the beans are or where they come from. Specialty roasters, however, clearly label and celebrate each component of a blend a safer bet-but there is a lot of poor Arabica out there, too. So what should discerning consumers expect to see on the labels?

The best-quality coffee beans are usually described with a high level of detail, such as by region, variety, processing method, and flavor (see p33). Consumers grow in their understanding of good-quality coffee, and, as a result, roasters realize that the key to ensuring customer satisfaction is honesty and traceability.

on the packaging—explaining the individual attributes of each bean and how the flavors complement and balance each other (see Sample Blend, opposite).

SINGLE ORIGINS

The term "single origin" is typically used to describe a coffee from a single country. However, identifying a coffee solely by country of origin is too broad—as it could still mean a blend of regions and farms within that country, and a mix of varieties and processes. It could also be of any level of quality—100 percent Brazilian, or any other country, does not mean that the coffee will be 100 percent great. Equally, it gives you little indication of flavor as coffees from one region can taste very different to another.

A "BLEND" IS A MIX OF COFFEE BEANS FROM AROUND THE WORLD. A "SINGLE ORIGIN" REFERS TO A COFFEE FROM ONE COUNTRY, COOPERATIVE, OR FARM

When the specialty coffee sector use the term "single origin" on their packaging, they usually mean something more specific—coffees from a single farm, a single cooperative, a group of producers, or a producer and his family. These single-source coffees are often sold as limited or seasonal offerings, and may not be available year-round but they will be sold for as long as the supply lasts and the coffee tastes its best.

RESPECTFUL PRACTICE

When coffee beans-regardless of whether they are single origin or blends-are grown and processed well, shipped carefully, and roasted with respect for the intrinsic flavors of the bean, it is a fantastic celebration of the nuances coffee can offer. Specialty coffee companies pride themselves on this practice, and, as a result, offer coffees of the highest quality.



CHOOSING AND STORING

Finding good-quality coffee to brew at home has never been easier—even without a specialty coffee shop close to home. Many coffee roasters sell online and offer brewing equipment and tips on how to make the most of their beans.

CHOOSING

WHERE TO BUY

Supermarkets rarely treat coffee as the fresh product that it is, so you will have more luck buying good, fresh beans from a local or an online shop that specializes in coffee. However, navigating through all the options and exotic descriptions can be a difficult task. Do a bit of research before deciding who to trust as your coffee supplier. Look for a few key points such as how the beans are described and packaged, rely on your taste buds, and be open to compare and experiment until you find the coffee provider that gives you the quality you want.

CONTAINERS

If you buy loose beans from a store, ensure you know when the beans were roasted. Coffee is best protected in containers with lids—unless stored airtight it loses its vibrancy after a few days.

SCALES

Buying less means buying fresh. If you can, buy only the amount of beans you need to brew for a few days or a week at a time. You can often buy as little as $3\frac{1}{202}$ (100g).

CHOOSING AND STORING 33

WHAT'S ON THE BAG?

A lot of coffee is sold in attractive packaging that actully offers very little useful information about the product you buy. The more relevant information you find, the better the odds of buying a good-quality product.

One-way valve Fresh coffee expels CO_2 as a by-product of the roasting process. If left unprotected, CO_2 escapes, oxygen enters, and complex aromatics are lost. A bag with a valve allows you to seal the coffee so the CO_2 escapes but oxygen cannot stale it.

FINCA LA SAETA

PITALITO, HUILA.

DE CORAZON

COLOMBIA Margarita Maria Salazar Huertas

Date The bag should have a "roasted and packed" date on it, and not just a "best-before" date. Most commercial coffee companies will not tell you when the coffee was roasted or packed, but instead operate with best-before dates that are anything from 12 to 24 months into the future. This is not in the best interest of the coffee, nor you, the consumer.

Provenance The label should tell you what species and/or variety the coffee is, where it was grown, and whether it is a blend or single origin (see pp30–31).

Roast level An indication of roast level is useful. but the language used to communicate roast is not standardized. "Medium roast" could be any shade of brown depending on who you ask. "Filter roast" generally indicates something on the lighter end, while "espresso roast" is a darker version. However, it is not uncommon to find filter beans that are darker from one roaster than an espresso roast from another. A knowledgeable retailer can advise you on which roast you might like.

100% CATURRA SEMI-SHADE GROWN

LIGHT-MEDIUM ROAST SUITABLE FOR FILTER-STYLE BREWING This beautiful, **fully-washed coffee** is from Señorita Salazar's two-hectare farm outside Pitalito, with an altitude of 5,577ft (1,700m) above sea level. It shines in the cup, with **bright lemongrass acidity**, rose hip, green apple, and honey notes, and a **delicate, creamy texture**.

COFFEE OBSESSION ROASTING COMPANY

Traceability Ideally, you should be able to find the name of a cooperative, washing station, hacienda, finca, or fazenda, as well as the name of the farm owner or manager. The more traceable a coffee is, the better are the chances that you are buying something of quality that was traded at a sustainable price and has been handled with care all the way from producer to retailer.

Expected flavor There

should be information on how the coffee was processed and what the flavor should be like. Even information on altitude or presence of shade trees can be indicators as to the quality of the beans inside.

THE PRICE GAP BETWEEN CHEAP COFFEE AND ETHICALLY SOURCED COFFEE IS FAR LESS PROFOUND THAN MANY WOULD THINK

PACKAGING

The main enemies of coffee are oxygen, heat, light, moisture, and strong odors. Avoid buying beans that are stored in open containers or hoppers unless the containers look clean, are protected with lids or sneeze guards, and you see a roast date. Unless carefully managed, these containers do nothing to preserve the quality of their contents. Look for coffee in opaque, airtight bags that have a one-way

IS EXPENSIVE ALWAYS BEST?

The cheapest coffee is never high-quality coffee. It was probably not sourced at a price that covered the cost of production. You should also be wary of coffees where a high price feeds into a marketing gimmick, such as expensive, and frequently fraudulent, animal-feces coffee, or valve on them. This is a small plastic disk that lets the CO_2 from the beans out of the bag, but prevents oxygen from entering. Kraft paper bags offer minimal protection so treat these beans as loose-weight coffee. Avoid coffee from bags or bricks that are vacuum-sealed, as this coffee would have completely de-gassed and gone stale before packaging. Buy as fresh as you can, as even a week after roasting can be too old.

exotic island coffee where you might be paying a premium for the marketing of the brand rather then a superior flavor. The difference in price between poor- and high-quality coffee is often very small, making a truly great cup of coffee one of the most affordable luxuries you can get.

TIP

An increasing number of quality-focused cafés sell single-serve coffee brewers, such as AeroPresses, alongside their coffees. Ask your barista for recommendations and guidance for using your equipment like a pro.
STORING

Buying whole beans and investing in a home grinder is one of the best ways to make sure you get fresher coffee at home. Pre-ground coffee will become stale in a matter of hours, but whole beans will stay fresh for a few days, or even up

STORING DOS

Store the beans in an airtight container, in a dry, dark place, away from strong odors. If the bag containing the beans does not fulfill these criteria, place the bag in an airtight container.

STORING DON'TS

Avoid storing your coffee beans in the fridge, but if you must preserve your beans for longer, freeze them and thaw only what you need to brew each time. Do not re-freeze beans that have already been thawed.

COMPARING STALE AND FRESH COFFEES

Fresh, well roasted coffee should be intensely and sweetly aromatic; free of harsh, acidic, or metallic notes. The presence of CO₂ is a very good indicator of freshness. In this visual comparison, two cups have been brewed using the "cupping" method (see pp24–25). to several weeks, if properly sealed. Attempt to buy only what you need for a week or two of drinking. Buy whole beans, invest in a manual or electric home burr grinder (see pp36–39), and grind only what you need for each brew.

> Fresh coffee As water reacts with the CO₂ in fresh coffee, foam and bubbles form a "bloom" that gently settles after a minute or two.

Stale coffee This coffee contains very little or no CO_2 for the water to react with, so it forms a flat, dull lid. The grounds can also be very dry and difficult to saturate.

GRINDING

Many of us invest in expensive coffee-brewing equipment, but don't realize that one of the easiest ways to vastly improve the quality of the coffee we make and to achieve the correct texture, is to grind fresh coffee beans with a good grinder.

THE RIGHT GRINDER

There is a difference between grinders for espresso and grinders for filter-style brews, so make sure you buy one designed for your preferred method, as shown opposite and on pages 38–39. However, there are some key choices that affect both types of grinders.

Grinders with blades are most commonly available, and usually run for as long as you hold down the "on" button. Even if you are using a timer to measure how long to grind for and how fine to go, you will find it hard to replicate accurately the size of ground coffee particles from one cup to another, especially if you vary the amount of coffee each time. Blade grinders also lead to a lot of grit at the bottom of your cup, particularly if you brew with a French press. An advantage is that they are generally quite affordable. If you would like to step it up a notch, invest a little more money in a grinder with "burrs," conical or flat (see below), that will crush the beans into particles of a more uniform size and allow for more even extractions. Some grinders have "stepped" adjustments that lock into set grind sizes; others are "stepless" and allow you to adjust in tiny increments. Burr grinders do not have to be expensive, especially if they are the manual, hand-cranked variety. However, if you want to spend a bit more or plan to grind large quantities of coffee each day, choose an electric one. They often have a timer function that you can use as a way of dosing how much coffee you grind. Keep in mind that the coarser a grinder is set, the less time it takes to grind through a loz (30g) dose of beans, and the finer it is set, the longer it takes to grind the same amount.



CONICAL BURRS These burrs are more resilient than flat ones, but they need replacing after you have ground around 1,650–2,000lb (750– 1,000kg) coffee.





FLAT BURRS Grinders with flat burrs are usually cheaper, but need replacing after you have ground around 550– 1,300lb (250–600kg) of coffee.

GRINDING 37

FILTER-STYLE GRINDERS

These grinders are cheaper than espresso grinders. They can be adjustable, but will not normally grind fine enough for espresso. They also rarely have a dosing, or measuring, mechanism.

As explained opposite, avoid buying the ones that use whirling blades to chop the coffee into pieces, as these are hard to control and often create fine dust that will over-extract, as well as several large chunks of bean that will barely extract at all. This can result in an imbalance in flavor that even good beans and correct brewing can't fix.

Choose a grinder that you can easily adjust without needing to dismantle

Grind adjustment

many parts. .

Hopper

Choose a grinder with a hopper that suits the volume of coffee you wish to grind on a regular basis.

Timer dial

Some grinders have a timer function and switch off automatically.

ELECTRIC FILTER GRINDER

Convenient and quick to use, make sure you clean electric filter grinders with special cleaning tablets on a regular basis.

Drawer Avoid storing coffee in the drawer, and grind only as much as you need per brew.

FILTER-STYLE HAND GRINDER

These require a little patience and muscle, but are great if you require only a small amount or you'd like fresh coffee without access to electricity.

ESPRESSO-STYLE GRINDERS

Engineered to grind very finely, espresso grinders are adjustable in small increments, and often portion out coffee for each dose. They are heavier than filter-style grinders, with solid motors and a higher price point, but they are an essential investment if you want to produce really good espresso at home.

> Doser ______ Some grinders have digital timer functions so you can grind what you need per shot. This reduces waste.

Stepless adjustment This helps to produce

grounds at the exact

particle size you prefer.

ESPRESSO GRINDER

You will need a grinder designed specifically for espresso and it should only be used for espresso. It takes time and beans to "dial a grinder in" (set your grinder up correctly) to brew a great shot. Adjusting it to go from espresso to filter and back again during the course of a day will take a long time—and waste a lot of coffee.

Hopper

Most grinders have hoppers that hold 2¹/₄lb (1kg) beans at a time, but to keep your coffee fresh, fill with only as much as you can brew in two days.

Burr

Degemene

Good espresso grinders should have flat or conical burrs (see p36).

On/off button

If you don't have a grinder with a doser, simply use your on/off button to stop grinding.



TESTING THE WATER

Water makes up 98–99 percent of a cup of coffee, so the quality of water you brew with has a major impact on the flavor.

WHAT'S IN YOUR WATER?

Water for brewing coffee should be odorless and clear in color. The combination of minerals, salts, and metals that can affect the brew may not be perceptible by sight or taste. Some areas have water that is clean and soft, while others have hard water that may contain chemical flavors such as chlorine or ammonia. If the water in your area is too hard, it is in essence already saturated with minerals and may under-extract the coffee, leaving you with a thinner, weaker brew. You may find it necessary to use a higher dose of coffee or a finer grind to compensate for this. Equally, water that is too soft or has had all minerals removed can over-extract your coffee. dissolving undesirable elements from the bean and making your coffee taste bitter or sour.

QUALITY CHECK

Test water quality in your own kitchen. Brew two bowls of coffee using the cupping method (as shown on pp24–25). Keep the beans, grind, and brew recipe the same, but brew one with tap water and the other with bottled water. Taste them side by side, and you may notice flavors in the coffee that you've never noticed before.



WATER FILTER Replace the filter regularly (when around 22 gallons/100 liters water has been filtered, or more often if you have hard water).

FILTER IT

If your tap water is too hard and you don't want to use bottled water for brewing coffee, investing in a simple home water filter can give you good results. You can buy filtration kits that are installed on your water line, or a simple water jug with a replaceable carbon filter (as shown above). The difference in flavor between water with and without the optimum mineral content is quite stark, and is often a surprise to most consumers. Changing from tap to bottled or filtered water is one of the easiest ways to improve the quality of coffee at home.

CHLORINE **TOTAL ALKALINITY** IRON, MANGANESE, COPPER OMG **SODIUM** 5-10 CALCIUM Buy a test kit to analyze results for coffee, based on $1^{3}/4$ pints (1 liter) water.

WHAT DOES IT ALL MEAN?

The most common term used to describe water quality in relation to the extraction of coffee is Total Dissolved Solids (TDS), measured in mg/L or parts per million (ppm). This is the combined amount of organic and inorganic compounds in

THE PERFECT COMPOSITION

vour water. These are target water analysis

> your water. "Grains of hardness" is another term, used to describe the amount of calcium ions present. The pH should be neutral: if it's too high or too low it can cause the coffee to have a flat or unpleasant flavor.

BREWING ESPRESSO

Espresso is the only method that brews coffee using pump pressure. When you brew coffee with an espresso machine, the water temperature is kept below boiling point, which helps to avoid scalding the coffee.

WHAT IS ESPRESSO?

There are many theories and practices when it comes to brewing espresso, from the classic Italian approach to the American adaptations, and the Scandinavian versions to the Antipodean interpretations. Irrespective of which approach you prefer and follow, it's useful to remember that espresso, at its core, is just a brewing method as well as the name of a beverage. Many people also use the term "espresso" as a way of describing a roast color, but in fact, you can brew espresso using any level of roast, and any bean or blend that you prefer.

PREPARING THE MACHINE

In addition to your machine manufacturer's recommendations, here are a few guidelines that can help make the road to a good home espresso a bit smoother.



Equipment

espresso machine espresso grinder dry cloth tamper tamping mat cleaning powder cleaning tools

Ingredients roasted coffee beans (rested)



Fill the clean espresso machine with fresh water and the grinder with beans that have been given a week or two to rest and de-gas since roasting. Allow the machine and portafilter to become thoroughly warmed up. 2 Wipe the basket of the portafilter clean with a dry cloth, so that none of the coffee grounds in the machine are rebrewed.

BREWING ESPRESSO 43

THEORIES ABOUND ABOUT THE RIGHT ROAST AND BEAN, BUT AT ITS CORE, ESPRESSO IS JUST A BREWING METHOD

TIP

GOOD espresso takes practice. Try using an electric scale and small measuring glasses to help get proportions right, taking notes as you go. Trust your taste, and experiment to find out what you like.

3 Flush some water through the group head to stabilize the temperature and clean any old coffee residue off the shower screen.



Grind the coffee and dose between ¹/₂oz (16g) and ³/₄oz (20g) into the basket, according to its size and your preferred recipe.

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BREWING THE SHOT

Brewing great coffee repeatedly and consistently can be very challenging, and making espresso at home takes a lot more effort than any other brewing method. For those who choose to invest in the machinery required to do a good job, it is a hobby as much as a daily drinking ritual. Coffee for espresso must be very finely ground, allowing the water to extract from a larger surface area. The result is a small, intense, viscous drink with a foam called crema, that highlights all the good, but potentially also the bad, qualities of the bean, roast, and preparation.



Distribute the coffee evenly by gently shaking the portafilter or tapping it gently on the counter. Use a designated distribution tool (as shown) if you prefer.

TIP

Don't press down as you level the bed of ground coffee-use a tool or your finger and move the mound of coffee from side to side and up and down until you have loosely filled in all of the gaps.



2 Use a tamper that fits the size of your basket. Keeping it level to the edges of the basket, press the coffee down with a firm push to create a solid puck of even thickness. It is not necessary to apply excessive force, to tap the portafilter, or to tamp repeatedly.



The goal is to push all the coffee down and create a firm, even bed of grounds that will withstand the pressure of the water and allow the water to flow through and extract the coffee evenly.

BREWING ESPRESSO 45

BREWING ESPRESSO CAN BECOME A HOBBY OR A DAILY DRINKING RITUAL. IT REQUIRES SOME WORK, BUT IS GREAT FUN TO MASTER

TIP

You may have to throw away several shots each day before you grind your coffee to the right coarseness and get a shot you are happy with. Check out the common pitfalls to brewing the perfect espresso on p46.



A Insert the portafilter into the group head, and immediately activate the pump to brew, using either the volumetric settings for two shots of espresso or the free-flow button, which you switch off when you reach the desired volume.



5 Place a warmed espresso cup under the spouts (or two cups if you wish to split the shot into two singles).



6 The coffee should appear after 5-8 seconds, dripping and flowing with a deep brown or golden color that lightens as the brew progresses and the solubles are washed out. You should extract around $1^{1/2}$ fl oz (50ml) in 25-30 seconds, including crema.

46 COFFEE KNOW-HOW

IS IT PERFECT?

A well-brewed espresso should have a smooth layer of crema (see p44) with a deep golden brown color, free from any large bubbles and pale or broken spots. The crema needs to be a couple of millimeters thick once settled, and should not dissipate too quickly. The taste should be balanced between sweet and acidic, and the texture should be smooth and creamy, leaving you with a pleasant lingering aftertaste. You should be able to taste the qualities of the coffee itself over the roast or brewing technique—be it a chocolatey Guatemalan, a nutty Brazilian, or a black currant-like Kenyan.

WHAT COULD GO WRONG?

If you have extracted more than 1⁴/₂fl oz (50ml) at the given time (see p45), it could be because:

- the grind size is too coarse and/or
- the dose is too low

If you have extracted less than 1¹/₂fl oz

(50ml), it could be because:

- the grind is too fine and/or
- you are using too much coffee

If a coffee is too acidic and sour, it could

be because:

- the water in the machine is too cold
- the beans are too lightly roasted
- the grind is too coarse
- the dose is too low

If an espresso is too bitter, it could be because:

- the water is too hot
- the machine is dirty
- the beans are roasted too dark
- the grinder burrs are too dull
- the grind is too fine
- the dose is too high



Well-brewed espresso



Imperfect espresso

BREWING ESPRESSO 47

CLEANING THE MACHINE

Coffee is made up of oils, particles, and other solubles. If you don't keep your equipment clean, these substances can build up and impart a bitter, ashy taste to coffee. Rinse with water between shots, and backflush with specialized cleaning solution daily, or as often as is possible.

TIP

Use a small clean brush to clean off the rubber gasket in the group head of your machine. To make sure your gasket stays in place, keep the portafilter locked into the machine even when you



Set the cup to the side, and remove the portafilter from the group head.



2 Knock the spent puck out of the portafilter, and wipe it clean with a dry cloth.



3 Flush the group head with some water to remove any coffee stuck on the screen, rinsing off the spouts at the same time. Place the portafilter back in the group head to keep it warm for the next shot.

MILK MATTERS

A good cup of coffee deserves to be enjoyed black, without milk, sugar, or other flavorings; but nobody can deny that milk is a perfect pairing that is enjoyed by millions every day. Steam your milk to accentuate its naturally sweet flavor.

TYPES OF MILK

You can steam any type of milk you like—whole, low-fat, or fat-free, but there are differences in the taste and texture. Low-fat milks produce a lot of foam but might feel a bit dry and crisp. Full-fat milks might produce less foam but will be smooth and creamy. Even nondairy milks like soy, almond, hazelnut, or lactose-free milk will steam and produce foam. Rice milk does not produce much foam, but can be a substitute for those with nut allergies. Some of these milks seem to heat quicker and the foam might be less stable or smooth than with dairy.

STEAMING

Practice with larger volumes of milk than you might need to prepare your drink. This gives you time to experiment before the temperature gets too high and you have to stop. A pint (1-liter) pitcher. half full with milk, is best to start with, as long as the steam wand on your machine reaches the surface of the milk. If it doesn't, try a 1¹/₂ pint (750ml) or 16fl oz (500ml) pitcher. Any smaller than this can make it tricky. as the milk heats up too fast for you to get used to the movement of the milk and the rate at which to add air.





Luse a steaming pitcher that tapers slightly at the top as you will need room for the milk to swirl, expand, and foam up without spilling. Start with cold, fresh milk, and fill the pitcher no more than half full, as shown. 2 Purge any water or milk residue out of your steam arm until only clean steam comes out. To avoid spilling, wrap a dedicated cloth around the steam nozzle to catch any water. Take care to keep your fingers away from the nozzle so as not to burn them. AS TINY POCKETS OF AIR AND STEAM ARE ADDED TO THE MILK, YOU WILL HEAR GENTLE, CONTROLLED SLURPING NOISES



If you don't want to waste a lot of milk to practice on, you can use water with a small drop of dishwashing liquid to mimic the process until you're comfortable with the concept of adding air and spinning the milk in a controlled manner.



3 Hold the pitcher level and upright. Position the steam arm inside the pitcher at an angle, slightly off-center but not touching the sides. The nozzle should be only just submerged. If you're right-handed, hold the handle of the pitcher in your right hand and use your left to turn the steam on. Don't hesitate to turn it up quite high. If you don't use enough steam pressure, you won't create any bubbles and the milk will make a loud, screeching sound. Move your left hand to the bottom of the steam pitcher. It will now function as your temperature gauge.

5 The direction of the steam pressure should push the milk around in circles. The longer you maintain the slurping noise, the more foam you will generate. As the foam increases, it acts as a sound buffer and reduces the noise. As the noise gets gentler, the bubbles get smaller creating a denser foam.

50 COFFEE KNOW-HOW

STEAMING (continued)

TIP

Milk will taste sweet and can be enjoyed immediately when it is steamed to about 140-150°F (60-65°C). Any higher than that may result in a boiled oatmeallike taste.



6 As the milk warms, it expands and rises up above the nozzle, cutting off the air. For lots of foam, lower the pitcher so the nozzle remains at the surface. For less, let the milk rise above the nozzle. Maintain the swirling of the liquid and beat the big bubbles into smaller bubbles to create a smoother, denser foam. Add air only while the milk is still cold. Once you feel the base of the pitcher reach body temperature, stop adding air—any bubbles formed beyond about 99°F (37°C) are harder to mix into a smooth foam. If you add air in as soon as the steam is switched on, you should have plenty of time to create as much foam as you'd like.



B Swirl the milk until the bottom of the pitcher becomes too hot to touch. Move your left hand away, give the process another 3 seconds, and turn the steam off. This should result in milk at about 140–150°F (60–65°C). If you hear a deep, rumbling noise, you are boiling the milk and it will taste eggy or oatmeal-like, not ideal for coffee.

MILK MATTERS 51



9 Set the pitcher down to the side. Use a damp cloth to clean the steam wand, and purge for a few seconds into the cloth to ensure that any milk residue on the inside of the wand is expelled. If there are any big bubbles on the surface of the milk, a few seconds of rest will weaken them. Gently tap the jug on the countertop to burst them.

TIP

There is no need to move the milk pitcher vigorously at any stage. The force and direction of the steam should do all the work, so just keep a steady position and controlled angle of the steam arm and pitcher.



1 O Once the big bubbles stop appearing, swirl the milk around in the pitcher until you achieve a glossy, shiny texture of milk and foam combined. If you are left with an "island" of dry foam floating around in the middle, gently slosh the milk from side to side to try to incorporate it, then swirl again in a circular motion.

STORING MILK

As long as the milk is fresh, it will produce foam with the right steaming technique. Even if the milk is within its "best before" date, the vital foam-stabilizing proteins may have degenerated to the point where they will struggle to aid in the formation of bubbles, so always go for milk with the most shelf-life left. Daylight is also damaging, so buy your milk in an opaque container, and keep refrigerated between use.



By swirling to keep the milk and foam mixed right up until the point where you pour it into your cup, you will not need a spoon to get the foam out, and with some practice, you will also be able to create latte art.

LATTE ART

Your milk must be smooth and have a dense foam, but it should look beautiful, too! Latte art takes practice, but once mastered, it'll spruce up a cup of coffee. Many designs start with a basic heart, so start with that and see where it takes you.

HEART

This design suits a slightly thicker layer of milk foam and so is a good choice to try on cappuccinos.



1 Start by pouring the steamed milk into the middle of the crema from about 2in (5cm) above the cup, letting the crema rise and stretch the "canvas."



2 Once the cup is about half full, quickly lower the pitcher down to the cup while maintaining your pour and its position in the middle. You should see a circle of milky foam start to spread out into the cup.



B When the cup is nearly full, lift your pitcher back up and pour a line through the circle, allowing the flow of the milk to pull it out into a heart shape.

POURING LIKE A PRO

If you pour milk from too great a height, it lifts up the crema, leaving very little white on the surface. Conversely, if you pour the milk when your pitcher is too close to the cup, it drowns the crema in white foam. If you pour too slowly, you won't get the movement you need to create a pattern; if too fast, the crema and milk will mix uncontrollably. Practice pouring from a 16fl oz (500ml) pitcher into a large cup, until you find the perfect balance between height and speed.

ROSETTA

Often seen on caffè lattes and flat whites, the rosetta works best with a slightly thinner foam.



1 Follow step 1 for the heart, opposite, then once the cup is about half full, quickly lower the pitcher down to the cup. Start rocking it gently from side to side in a "tick tock" motion.



2 Let the flow of milk spill out in a zigzaglike pattern. When your cup is nearly full, start moving the pitcher backward to create increasingly smaller zigzag shapes.



3 When you have finished creating your zigzags, pour a line straight down the middle to finish, holding your pitcher from a little more height.

SWIRL THE JUG CONTINUOUSLY, RIGHT UP TO THE POINT OF POURING, TO KEEP THE FOAM AND MILK FROM SEPARATING

TIP

As well as free-pouring latte art designs like the heart, rosetta, and tulip, some enjoy etching. This involves creating designs, such as chasing hearts (pictured, far left), by pulling a thin utensil through dollops of milk foam.

TULIP

The tulip is an advanced version of the heart (see p52) that uses a stopand-start technique.



Start as you would for the heart, pouring a small circle of white into the middle of the cup.



 $2 \begin{array}{l} \text{Stop your pour} \\ \text{and start again $\frac{1}{2}$in} \\ (1\text{cm}) \text{ behind the first} \\ \text{pour, carefully moving the} \\ \text{pitcher forward as the} \\ \text{foam comes out, pushing} \\ \text{the first circle forward} \\ \text{and out to the sides} \\ \text{in a crescent shape.} \end{array}$



3 Repeat until you have as many "leaves" as you would like. Finish with a small heart on top, pulling the line down through the leaves to create the stem.







ELABORATE Adapt the basic designs to create (clockwise from top left): multitulips, chasing hearts, swans, rosetta hearts.



$\begin{array}{c} \text{COFFEES OF THE WORLD} \\ \textbf{AFRICA} \end{array}$

ETHIOPIA

The complex mix of species and varieties that are native to Ethiopia gives these coffees their potential for unique flavors. They are famed for unusually distinct and elegant floral, herbal, and citrus notes.

Ethiopia is often hailed as the birthplace of Arabica coffee, although recent studies indicate that South Sudan may also have the right to claim this title. Ethiopia doesn't have a lot of coffee farms—they are either referred to as garden, forest, semi-forest, or plantation—but around 15 million people are involved in the coffee-production process, from picking to export. Coffee grows wild, produced largely by subsistence farmers, who sell it only for a few months every year. Ethiopia has a biodiversity of species and varieties that is not found elsewhere, with many yet to be identified. Due to the mix of Heirloom varieties grown—such as Moka and Geisha—coffee beans from Ethiopia often lack uniformity in size and shape.

Climate change is eradicating wild species of coffee trees that may hold genetic keys to coffee's survival. The huge genetic range of local Heirloom varieties will be key to securing the future of coffee worldwide.



UNRIPE COFFEE CHERRIES When ripened (see pp16–17), coffee cherries are picked once, twice, or three times a week.





Coffee from this area is normally exported as "Limu" if washed, and "Djimmah" if naturally processed. Generally milder than the coffees from Sidamo, there is still a wide range of qualities available here.

Well-dried, naturally processed Ethiopian coffees have an almost tropical fruit-like flavor.





Ripening coffee cherries Not all cherries ripen at once, so pickers choose them by eye.

This region is dry, hot, and almost desertlike. Coffee produced here often has an earthy flavor. The most prized beans have blueberry and fruity flavors, and nearly all Harar coffee is naturally processed.

60 COFFEES OF THE WORLD

KENYA

Kenya offers some of the most intensely aromatic, brightly acidic coffees in the world. Flavors from region to region vary subtly, but most feature uniquely complex fruit and berry notes, citrus acidity, and juicy, rich textures.

Only around 330 farms in Kenya are estates of 37 acres (15 hectares) or more. Just over half of the coffee producers are smallholders with only a couple of acres of land each. These smallholders are grouped into factories that belong to cooperative societies, each factory receiving coffee cherries from hundreds, to even a couple of thousand, producers.

Kenya grows Arabica, specifically SL, K7, and Ruiru varieties. Most beans are washed for export (see pp20–21); usually any smaller selections of naturally processed coffee cherries are consumed in Kenya. Once processed, most of the coffee beans are traded via a weekly auction system, where exporters bid on samples they tasted the previous week. Although this is still susceptible to swings of the commodity market, prices at the auction reward the best-quality coffees and thus provide incentives for producers to improve agricultural practices and the quality of their coffee.



CHARACTERISTIC RED SOIL Kenya's aluminum and iron-rich red clay soil contributes to the unique flavor of its coffee.



AFRICA 61



TANZANIA

Flavors of Tanzanian coffee can be split between the heavy-bodied, sweet, naturally processed Robustas and Arabicas near Lake Victoria, and the bright, citrus, berry-like washed Arabicas of the rest of the country.

Coffee was introduced to Tanzania by Catholic missionaries in 1898. Today, Tanzania grows some Robusta, but the majority of the crop is Arabica— Bourbon, Kent, Nyassa, and the famous Blue Mountain. It is prone to wild swings in production, from 534,000 bags in 2011 to over 1 million bags in 2012. Around 20 percent of Tanzania's export earnings come from coffee. Yield of fruit per tree is low, adding to other growing challenges, such as low prices and a lack of training and equipment. Almost all of the beans are grown by smallholders on family farms. About 450,000 families are involved in coffee growing, and the industry as a whole employs around 2.5 million people.

As with some other African countries, the coffee is sold at auction, but there is a "direct" window open for buyers who wish to buy from the exporters themselves. This window allows higher-quality coffee to be rewarded with higher prices, creating a sustainable cycle of production in the long term.



CHERRY RIPENING Cherries ripen at different speeds. Pickers return to the same tree several times to collect ripe ones.





RWANDA

The coffees from Rwanda are often some of the softest, sweetest, and most floral of East African coffees—delicately balanced and rapidly winning the hearts of coffee lovers worldwide. DEM. REP.

The first coffee trees in Rwanda were planted in 1904, and export began around 1917. The high altitudes and steady rainfalls mean the potential for quality is very high.

About half of the country's export revenue now comes from the coffee industry, so coffee has recently become a vehicle for the government to improve socio-economic conditions. There has been an explosion in the number of washing stations built throughout the country, giving the 500,000 smallholdings easier access to resources and training.

One of the challenges for Rwandan coffee is the "potato" defect—a bacteria that can cause the occasional bean to smell and taste like raw potato. However, the dominance of old Bourbon trees and the combination of high altitudes and rich soil ensure that Rwandan beans are still some of the best on the market.

Cyangugu

WESTERN PROVINCE

The districts along Lake Kivu are home to some of the most famed washing stations in Rwanda, consistently producing complex, floral, elegant, juicy coffees of the highest quality.

NORTHERN PROVINCE

The citrus, stone fruit, and caramel tones of the coffees from the south of the Northern Province make these coffees balanced and sweet.

UGANDA

CONGO Virunga Mountains BURERA MUSANZE RUBAVU NYABIHU RULINDO Gisenyi GAKENKE NORTHERN PROVINCE TR MA A N ID A NGORORERO RUTSIRO MUHANGA KAMONYI . Gitarama **Central Plateau** KARONGI WESTERN PROVINCE SOUTHERN PROVINCE RUHANGO

1

NYAMAGABE

KIVU

NYARUGURU

RUSIZI

Washed Bourbon Light-roasted Rwandan coffees have enticingly sweet aromas.

0

3

NYAMASHEKE

Lake

Kivu

BURUNDI

NYANZA

Butare

GISAGARA

HUYE





EASTERN PROVINCE

NGOMA

KAYONZA

Lake

KIREHE

KICUKIRO

GICUMBI

GASABO Kabuga

RWAMAGANA

BUGESER.

Lake Rweru

SOUTHERN PROVINCE

The higher elevations of Rwanda's southern province produces coffees with classic floral or citrus flavors and creamy textures-subtle and sweet.

RWANDAN COFFEE KEY FACTS



WORLD RANKING 32ND LARGEST **PRODUCER IN THE WORLD**



Washed Catuai Rwandan soil enhances the floral and stone-fruit flavors of varieties such as Catuai-apparent after roasting.

EASTERN PROVINCE

The southeast corner of Rwanda is home to a small number of washing stations and farms that are slowly gaining a reputation for coffees with rich chocolate and forest-fruit notes.

Washed Bourbon

Rwanda has preserved most of its old Bourbon variety, highly sought after by the specialty market.



Unripe Arabica cherries When these ripen, Rwandan pickers gather each cherry by hand.

0	NOTABLE COFFEE-
	PRODUCING REGIONS
	AREA OF PRODUCTION
-	C
	20

HOME ROASTING

Roast your beans at home to get them to your preferred flavor. To do this, you can use an electric home roaster for a controlled approach, or simply heat a batch of coffee beans in a wok over your stove, stirring frequently.

HOW TO ROAST

Finding a balance between time, temperature, and overall degree of roast can take some practice, but roasting is a fascinating and satisfying route to understanding more about the potential flavors of coffee. Keeping within certain parameters, you should be able to experiment and taste until you find a method that works for your beans. There is no one-way-fits-all recipe to roasting coffee that tastes good, as well

THE STAGES OF THE ROAST

Coffee beans transform as they are roasted, increasing in size, smoothening, and eliciting a range of aromas.



UNROASTED GREEN BEANS Before you roast, the raw bean is green, and would have a vegetal flavor if it were used to brew coffee. as looks brown. Keep notes on both roasting process and flavor results, and you will soon learn how to manipulate the roast as desired. Aim for an overall roasting time of 10 to 20 minutes. Shorter than this, and the coffee might be green and taste astringent. Longer than this, and it might taste flat and hollow. If you buy an electric home roaster, follow your manufacturer's instructions.



HIGH PRESSURE As the water in the bean heats up, steam pressure builds up within the structure and the color continues to deepen. Some beans turn a shade of brown that makes them look nearly done, but they should briefly pale a little once they reach the next vital stage of the roast, the first crack.



DRYING PHASE

The beginning of roasting is called the drying phase. Here, the bean turns from green through yellow, to light brown. This phase allows water to evaporate and acids to react and break down, removing the vegetal taste of the bean. The bean smells like popcorn or toast, and the color changes can make it look "wrinkled."

GREEN COFFEE BEANS

If you start with fresh, high-quality green beansreadily available online or in specialty coffee shops-you'll soon be able to create home-roasted coffee to rival anything you would find on the high street. You need to be prepared to try again and again-there is a high chance that you may

TIP

Once you are happy with the roast, cool the beans down for 2–4 minutes and give them a day or two to de-gas before you use them. If you are brewing espresso, allow more time-about 1 weekfor this stage.

FIRST CRACK

The force of the steam eventually causes the cell structure to rupture, making a sound a bit like popcorn popping. This is where the bean increases in size, gains a smoother surface and an even color, and starts to smell like coffee. Stop the roast 1–2 minutes after the first crack for filter or French press brewing. ruin the flavor of the coffee beans, even if they are of the best quality.

There is no way to take old or low-quality green coffee and make it taste great. All you can do is roast the beans so dark that you cover up the flat, wooden, baggy taste with burnt flavors.



ROASTING PHASE Sugars, acids, and compounds react, developing flavors. Acids break down, the sugars caramelize, and the cell structure dries out and weakens.

J16 MINUTES

SECOND CRACK

Eventually you reach a second crack, caused by gas pressure, and oils will be forced to the surface of the brittle bean. Many espressos are roasted to the beginning or middle of the second crack.



BEYOND SECOND CRACK

You have little left of the original flavor of the coffee in the bean. It will mostly be dominated by roasty, ashy, and bitter tastes. As oils travel to the surface, they also oxidize and become harsh-tasting quite quickly.

BURUNDI

Producing coffees that range from soft, floral, and sweetly citrus to chocolatey and nutty, Burundi offers few distinct regional flavor profiles, but its diverse coffees capture interest from specialty companies.

Burundi has been growing coffee only since the 1930s, and it has taken a while for its great coffees to get onto the radar of connoisseurs. The coffee sector has struggled through political instability and climatic challenges, and being a landlocked country makes it difficult to get coffee to buyers without quality suffering noticeably.

Robusta grows in some small pockets, but the majority of the crop is Arabica—washed Bourbon, Jackson, or Mibirizi, grown largely organic as funds for chemical fertilizers or pesticides have not been available. There are about 600,000 smallholders with 200–300 trees each, who normally also grow other food crops or keep livestock. Growers deliver to washing stations (see Local Technique below). These stations are members of Sogestals—companies who look after the transportation and commercial aspects.

Coffee suffers from the potato defect (see p64), but local research aims to reduce the problem.



BOURBON CHERRIES Burundi grows mostly Bourbon, which was introduced to Réunion Island by French missionaries.



AFRICA 69



This Sogestal lies in the west, in the mountains of Kumugaruro, southwest of Kibira National Park. The high altitudes provide perfect conditions for growing coffee.

МАКАМВА

KEY

NOTABLE COFFEE-

PRODUCING REGIONS

AREA OF PRODUCTION



Coffee trees flower in Burundi between June and August.

KIRIMIRO

Close to Gitega in the center of the country, the areas covered by this Sogestal have washing stations at the highest altitude in Burundi.

0 km	30	
0 miles	10.00	30

COFFEES OF THE WORLD 70

UGANDA

Robusta is indigenous to Uganda, and still grows wild in some places-little wonder that the country is the world's second largest exporter of Robusta coffee.

Arabica was introduced in the early 1900s, and most of it is now grown on the foothills of Mount Elgon. About 3 million families rely on the coffee sector for income. Some Arabica is produced, including Typica and SL varieties.

For both Arabica and Robusta, new production and processing practices increase coffee quality. Robusta, generally thought of as inferior to Arabica and traditionally grown in lowland areas, grows here at heights of 4,900ft (1,500m). The beans are also washed, not naturally processed (see pp20-21). As quality improves, farmers reap the rewards of good agricultural practice.

Mbarara , **UGANDAN COFFEE** KEY FACTS PERCENTAGE HARVESTS: **OF WORLD** ARICA MARKFT--FFRRIJARV MAIN TYPES: ROBUSTA AR. PEAK IN **R-FEBRUARY** TYPICA SL 14 ND NATURAL **SL 28, KEN1** WORLD RANKING **PRODUCER IN T**

BUGISU

AFRICA

Natural Robusta

Ugandans call washed

coffees "wugars," and

WESTERN

REGION

naturally processed

coffees "drugars."

WEST

NILE

WESTERN

0

5

0

The small farms of Bugisu and Mount Elgon sit 5,250-6,200ft (1,600-1,900m) above sea level, and produce washed Arabicas with heavy textures and sweet and chocolatev flavors. Nangeya Mountains NORTHERN Gulu • NORTHERN 0 REGION ΠJ G N D A Lake Kyoga Mbale BUGISU EASTERN **CENTRAL &** SOUTHWEST linia Mukopo KAMPALA AKE VICTORIA BASIN Masaka Lake Victoria TANZANIA **LAKE VICTORIA** WESTERN REGION BASIN Snow-capped Mount Robusta grows well in Rwenzori in the west is loamy, clay-rich soils, so the area around the Lake home to the naturally

processed Arabicas of Uganda, known as "Drugars." Coffees can be wine-like with fruity notes and good acidity.

Victoria Basin is well suited. It also benefits from the high altitudes. increasing acidity and adding complexity.

KEY

S NOTABLE COFFEE-**PRODUCING REGIONS AREA OF PRODUCTION**

	100	
_	100	
		10

0 km

0 mil
MALAWI

One of the world's smallest producers, Malawi is drawing interest for its subtle. floral. East African coffees.

Coffee came to Malawi in 1891, brought by the British. Uniquely, the Arabica varieties here are predominantly Geisha and Catimor, with some Agaro, Mundo Novo, Bourbon, and Blue Mountain, Kenvan SL 28 is also being planted to help to invigorate the specialty sector.

Unlike other African countries, many coffee trees are grown on terraces to try to combat soil erosion and retain water. Malawi produces about 20,000 bags on average per year, and consumes very few of those internally. About 500,000 smallholders grow coffee.

PERCENTAGE **OF WORLD**

MARKFT-

HARVFST

MALAWIAN COFFEE KEY FACTS

0.01%

OCTOBER

WORLD RANKING 43RD L

PRODUCER IN TH

MAIN TYPES:

AFRICA

PHOKA HILLS

In Livingstonia, between the Nvika National Park plateau and Chilamba Bay, coffee grows on the Phoka hills at altitudes of about 5,500ft (1,700m) above sea level. It produces sweet, subtly floral, and elegant coffees.

Mzuzu NKHATA BAY HIGHLANDS

VIPHYA C

NORTH

TANZANIA

Karonga

NORTHERN

PHOKA HILLS

MISUKU

CENTRAL MALA

T MA

Chipok

SOUTHEAST

MZIMBA

ø Kasunga

Washed Catimor At high altitudes in Malawi, Catimors gain a pleasing acidity, which comes through when roasted.

Washed Bourbon,

varieties in Malawi attracts interest from speciality companies.

Geisha, Agaro The range of

MISUKU HILLS

Located 5.500-6.500ft (1,700-2,000m) above sea level, this area produces some of the best coffee in the country. Close to the Songwe river, it benefits from steady rainfall and stable temperatures.

NKHATA BAY HIGHLANDS

To the southeast and southwest of Mzuzu. the Nkhata Bay Highlands stretch up to 6,500ft (2,000m) above sea level, and have a hot and rainy climate. Some coffees taste very similar to those from Ethiopia.

SOUTHERN CHIRADZULU HIGHLANDS 12 Blantyre THYOLD ZOW HIGHLANDS

ZOMBA

Zomba a

Lake

Malomb

Lake

Chilwa

KEY	
O NO PR	TABLE COFFEE- ODUCING REGIONS
	A OF PRODUCTION
0 km	100
0 miles	100



COFFEES OF THE WORLD INDONESIA, ASIA, AND OCEANIA



INDIA

Indian Arabica and Robusta are especially popular for espresso preparation, because they are heavy-bodied and low in acidity. There are some defined regional flavor attributes, and exporters are keen to discover more.

Coffee in India is grown under shade, normally alongside other crops, such as pepper, cardamom, ginger, nuts, oranges, vanilla, bananas, mangoes, and jackfruits. At harvest, coffee cherries are either washed, naturally processed, or "monsooned" (see Local Technique, below)—a method that is unique to India.

Arabica grows here, including Catimor, Kent, and S 795 varieties, but the majority of the crop is Robusta. There are about 250,000 growers in India, nearly all of whom are smallholders. For almost a million people, coffee is a livelihood. Harvest takes place twice a year for Robusta, but this often varies by several weeks depending on the climatic conditions.

In the last five years, production has averaged at just under 5 million bags per year. Around 80 percent of this is exported, but more and more Indians choose to drink local coffee.

Traditional Indian filter coffee, made from three-quarters coffee and one quarter chicory, is popular around the country.



ROBUSTA CHERRIES After harvest, Indian Robusta beans are sometimes processed using the monsooned method.



INDONESIA, ASIA, AND OCEANIA 75



SUMATRA

Sumatra is the largest island within Indonesia. Coffees here can have wooden notes, heavy textures, low acidity, and flavors that range from earthy, cedary, and spicy, to fermented fruit, cocoa, herbs, leather, and tobacco.

Indonesia produces mostly rusticflavored Robusta and a small proportion of Arabica. The first coffee plantations in Sumatra appeared in 1888, and they are now the largest producer of Indonesian Robusta, supplying around 75 percent of the country's total output.

Of the Arabicas, Typica is still the most common. Some Bourbon, as well as S-line hybrids, Caturra, Catimor, Hibrido de Timor (Tim Tim), and Ethiopian lines called Rambung and Abyssinia are also grown here. Producers often grow mixed plots of various trees, causing a lot of natural hybridization. Water can be scarce, so smallholders mostly use the traditional Giling Basah processing method (see Local Technique below), giving the coffee its blue-green color. Unfortunately, the method can cause damaged beans and defect taints.

The quality of Indonesian coffees is inconsistent, and internal logistical challenges make it difficult to source premium selections.



RIPE ROBUSTA FRUIT Sumatran Robusta trees grow predominantly in the central and southern part of the island.



INDONESIA, ASIA, AND OCEANIA 77



SULAWESI

Of all the islands in Indonesia, Sulawesi grows the most Arabica trees. Well-processed coffees display flavors of grapefruit, berries, nuts, and spices. Coffees often taste savory, and most have low acidity and thick texture.

Sulawesi represents only about 2 percent of Indonesia's coffee crop, with roughly 7,700 tons of Arabica produced per year. Some Robusta is also grown, but it is largely consumed in Sulawesi, rather than being exported.

Sulawesi has iron-rich soils and grows old Typica, S 795, and Jember varieties at very high altitudes. Most of the farmers here are smallholders—only about 5 percent of the crop comes from larger estates. Giling Basah is the traditional processing method, as used in Sumatra (see p76). This results in coffee beans that display a hint of the classic Indonesian dark-green color.

Some producers are starting to wash coffee beans (see pp20–21) in a similar way to Central America, which helps to add value to their product. Much of this development is due to Japanese importers, who are the biggest buyers and have invested heavily in the Sulawesian coffee industry to ensure high-quality standards are met.



RIPENING ROBUSTA The small proportion of Robusta trees in Sulawesi are mostly found in the northeastern areas.



INDONESIA, ASIA, AND OCEANIA 79



JAVA

The island of Java offers few regional flavor profiles, but in general, coffees are low in acidity, nutty or earthy, and heavy-bodied. Some are aged for a rustic flavor.

JAKARTA

RAYA

Bogor

WEST HIGHLANDS

Lake Jatiluhur

JAWA

BARAT

IFMBER, TYPICA

Bandung

Π N

Garut

Cianiur

Sukahumi

WEST HIGHLANDS

N E

Cirebon

Ciamis

INDONESIA

New private plantings are taking place in Western Java. Experimental varieties such as Andung Sari, Sigararuntang, Kartika, and S-lines as well as Ateng, Jember, and very old Typica varieties grow here, and promise some exciting new beans.

Panaitan Island

Sunda

Strait

Serang

BANTEN

JAKARTA

Tangerang *

Java Sea Brebes • Tegal

S

- Cilacar

Pekalongan

JAWA TENGAH

CENTRAL

HIGHLANDS

A

Java

Washed Arabica lavanese Arabicas are often large and smooth, with little or no silverskin on the surface.

JAVANESE COFFEE KEY FACTS PERCENTAGE **MAIN TYPES:** % ROBUSTA INDONESIA MARKET: ABICA HARVEST: 'ORFR G SARL S-LINES LOCAT TIKA, ATENG. SIGARARUNTANG.

Javans mainly use the washed method. This decreases the risk of taints or defects caused when the beans are processed using the Giling Basah method (see p76)

WORLD RANKING AS A PRODUCER (INDONESIA): **3RD LARG ODUCER IN THE W**

INDONESIA, ASIA, AND OCEANIA 81

Indonesia was the first non-African country to cultivate coffee on a large scale. It began in 1696 with the areas around Jakarta, West Java. The first seedlings did not survive due to a flood, but in a second attempt three years later, they took root.

Production flourished until leaf rust killed most Typica trees in 1876, causing widespread planting of Robusta. New Arabica plantings did not occur until the 1950s, and still only represent about 10 percent of Javanese coffee.

Most of the coffee grown in Java today is Robusta, but it also grows some varieties of Arabica, such as Ateng, Jember, and Typica. Coffee is largely grown on governmentowned (PTP) plantations, centered at the Ijen Plateau in Eastern Java. These state-owned plantations produce washed coffees, cleaner than many other Indonesian coffees. New private plantings are taking place in Western Java, around Mount Pangalengan, making this area one to watch for the future.

Old Brown Java

Surabaya

JAWA

TIMUR

Malana

Beans that are over a year old decrease in value, but this coffee is an exceptionvalued for curiosity rather than flavor.

Dacurua

EAST HIGHLANDS

Madura Island

Bali Sea

Probolinggo

Jemhe



ROBUSTA CLUSTER Coffee cherries mature at different speeds-one of the reasons for the long harvest period in Java.

Semarang

. Purwodadi

Surakarta

. Yogyakarta

YOGYAKART.



Pruned Robusta trees Javanese trees are sometimes allowed to grow high, but most are pruned to help the pickers during harvest.

EAST HIGHLANDS

Jomban

Kendeng Mountain⁵

. Kediri

Madiun

The largest PTP plantations are Blawan, Jampit, Pancoer, Kayumas, and Tugosari. Robusta is grown on several estates - Kaliselogiri and Satak being two of the most well known. There are also some private estates, such as Kalibendo and Ayer Dingin, located at lower altitudes: these use the traditional Giling Basah method (see p76).

Washed Robusta

Often of high quality, with a clean, gently nutty taste, lavanese Robusta beans are popular in commercial espresso.

KEY	C. C. Hard
0	NOTABLE COFFEE-
	PRODUCING REGIONS
	AREA OF PRODUCTION

0

km	50	
miles		50

Bali Strait

Bali

IS COFFEE

DEHYDRAIIN

COFFEE Q&A

There are many mixed messages about coffee in the media, and it can be difficult to find information that relates to you—especially as caffeine affects us all in different ways. Here are reliable answers to common coffee queries.

While coffee can have a diuretic effect, a cup of it consists of about 98 percent water and as such is not dehydrating. Any loss of fluid is effectively offset by the intake itself.

> Coffee and its antioxidantscaffeine and other organic compounds-have been shown to have positive effects on a wide range of health problems.

Coffee is not considered a drug of dependence and any "withdrawal symptoms" can be alleviated by gently decreasing the daily consumption of coffee over a short period of time.

98%

WATER

CAN COFFEE IMPROVE LEVELS OF ONCENTRATION?

Brain activity that controls memory and concentration is boosted temporarily when we drink coffee.

COFFEE Q&A 83



WHAT EFFECT DOES CAFFEINE Caffeine blocks a chemical called adenosine from attaching to its receptors, which would normally make you feel sleepy. The blockage also triggers the production of adrenaline, increasing your feeling of alertness.

The effects of moderate caffeine intake can improve endurance in aerobic sports as well as performance in anaerobic exercises. It opens up your bronchial tubes, improving breathing, and releases sugar into your blood stream, directing it to muscles.

WHY DON'T I

GET A CAFFEINF

KICK?

Very dark roasts might actually contain less caffeine, and definitely won't perk you up faster.

> You can desensitize yourself to the effects of caffeine by drinking coffee at the same time every day, so change your routine every now and then.

PAPUA NEW GUINEA

Coffees produced in Papua New Guinea have dense textures, low-to-medium acidity, and a range of herbal, wooden, and tropical- or tobacco-like flavors.

Most coffee is grown in smallholder gardens, some in plantations, and a small percentage use a state program. Almost all the coffee is highlandgrown washed Arabica, including Bourbon, Arusha, and Mundo Novo varieties. Two to three million people rely on coffee for their livelihoods.

OCEANIA

There is great interest for all the coffee-growing provinces to plant more trees and produce coffee of better quality.



AUSTRALIA

The flavor of Australian Arabicas is varied, but often nutty, chocolatey, and softly acidic, with scope for sweetly citrus and fruity notes.

Arabica has grown here for 200 years, but the industry has gone through highs and lows. With the move to mechanical harvesting in the last 30 years, new farms have been established to revive the sector, with some

producers also starting to plant on Norfolk Island, off the east coast.

Growers here plant new varieties, such as the popular K7, Catuai, and Mundo Novo, alongside old Typica and Bourbon.

Arafur

Darwin

AUSTRALIAN COFFEE PERCENTAGE HARVEST: LESS THAN **OF WORLD** MARKET: MAIN TYPES: K7. CATUAI, MUNDO TYPICA, BOURBON

WORLD RANKING **AS A PRODUCER:**

THE ATHERTON HIGHLANDS

This region in far north Queensland produces about half of Australia's output. Most of the country's big farms can be found here. Coffees from here are often sweet, chocolatey, and nutty.



THAILAND

Robustas dominate in Thailand, but the best Arabicas show soft textures, low acidity, and the potential for pleasant floral notes.

Almost all of the coffee growing in Thailand is Robusta. Most of it is naturally processed and used to make instant coffee. In the 1970s, seeing the potential for higher-quality Arabicas, farmers were encouraged to plant trees, such as Caturra, Catuai, and Catimor. Unfortunately, the follow-up on this was lacking, and farmers had little incentive to do anything with the trees. Interest in Thai coffee has grown in recent years, and investment helps farmers to produce high-quality coffee.

THAI COFFEE KEY FACTS

0.5%

HARVEST:

PROCESSES:

PERCENTAGE

MAIN TYPES:

2% ARABICA

WORLD RANKING 21st LAR

PRODUCER IN THE WORLD

CATURRA, CATUAI,

CATIMOR, GEISHA



BANGKOK •

aung

F

CHUMPHON

Nakhon Si

NAKON SI THAMMARAT

RANONG

PHANG

SURAT

THANI



SOUTHEAST ASIA



Naturally processed cherries Underripe, ripe, and overripe coffee cherries are often picked in one pass in Thailand.

Washed Arabica Peaberries Peaberry selections (see p16) are sometimes separated out and sold on their own, particularly in northern areas.

SOUTH

Robusta grows well in the southern regions, representing nearly all the coffee grown in the country.

KEY

NOTABLE COFFEE-PRODUCING REGIONS AREA OF PRODUCTION 0 km 150 0 miles 150

INDONESIA, ASIA, AND OCEANIA 87

VIETNAM

There are some soft, sweet, and nutty varieties here that are of interest to the specialty market.

Vietnam began to produce coffee in 1857. In the early 1900s, after some political reforms, farmers boosted their coffee production to capitalize on good market prices. Over a 10-year period, Vietnam became the second-largest coffee producer in the world. As a result, inferior Robustas flooded the market, causing a low-price, low-quality trend. Today, the government aims for a balance between supply and demand. Robusta is the main crop, but a little Arabica also grows.

CENTRAL COAST NORTH

Mountains protect Thua Thien Hue, Quang Tri, Ha Tinh, Nghe An, and Thanh Hoa from the monsoon winds, making it possible to expand plantings of Arabica.



Washed Arabica The flavor profile of Vietnamese Arabica is vet to be identified. as production is growing. HIGHLANDS

CENTRAL

NORTHWEST

CHINA

The areas around Dak Lak, Gia Lai, Kontum, and Lam Dong grow coffee at 1,650-2,300ft (500-700m) above sea level. They have hot days, cool nights, and wet and dry seasons.

HA NÔI Câm Pha RED RIVER Hai Phong RED DELTA • Nam Đinh

Gulf of

Tongking

CENTRAL

COAST

NORTH

Vinh

う

2

う 2

0 2

NORTHEAST

CENTRAL **COAST SOUTH**

SOUTHEAS

ASIA

Some farmers around **Ouang Nam**, **Ouang** Ngai, Binh Dinh, Phu Yen, and Khanh Hoa have started watering the trees during the dry season to manipulate flowering and get ripe cherries at a beneficial time of year.

Đa Năng

Quy Nhon

Cam Ranh •

150

IETNAM CENTRAL COAST SOUTH

CENTRAL

WESTERN

HIGHLANDS

VIETNAMESE COFFEE KEY FACTS HARVEST: PERCENTAGE

Around Dong Nai, Ba Ria-Vung tau, and Binh Phuoc, the fertile red soil and hot and humid weather help Robusta to thrive. Harvest is in the dry season.

SOUTHEAST



0 miles

Hô Chi Minh



MARKET-MAIN TYPES: **5% ARABI** PROCESSES: WORLD RANKING 2ND

CATIMOR, CHARI (EXCELSA)

CHINA

Chinese coffees are generally soft and sweet, with delicate acidity and nutty flavors that can cross over into caramel and chocolate.

Coffee has been growing in China since 1887, when it was brought to Yunnan by missionaries. It took another century before the government focused efforts on its production. New measures have improved practices and conditions, helping total coffee production to grow by about 15 percent every year. While the per capita is currently only 2–3 cups a year, this is also increasing. Arabica varieties grown here include Catimor and Typica.

PERCENTAGE

MAIN TYPES:

CATIMOR, BOURBON

5% ROBUSTA

PRODUCER

WORLD RANKING

CHINESE COFFEE KEY FACTS

HARVEST-

DROCFSSES:

YUNNAN PROVINCE

The Pu'er, Kunming, Lincang Wenshan, and Dehong regions grow 95 percent of Chinese coffees. Most are Catimor, while some old Bourbon and Typica can still be found in the Baoshan prefecture. Coffees are mostly low-acidic, nutty, or cereal-like in taste.

ASIA

Washed Typica China's Typica is often sweet, structured, and medium-bodied.



HAINAN ISLAND

Off the south coast of China, the island of Hainan grows about $\frac{1}{3}-\frac{1}{2}$ ton (300–400kg) of Robusta annually, and while production is in decline, coffee culture is very strong among the people here. The coffee is often mild, woody, and heavy-bodied.

Dao



Drying coffee cherries It is not uncommon for families to dry cherries outside their homes, both to sell and consume. Washed Catimor This is the most

widespread variety grown in China.

FUJIAN PROVINCE

The coastal province across from Taiwan is a large producer of tea, but some Robusta coffee is grown here, making up a small percentage of China's total output. Robustas are typically low in acidity and full-bodied.

KEY

NOTABLE COFFEE-PRODUCING REGIONS AREA OF PRODUCTION

INDONESIA, ASIA, AND OCEANIA 89

YEMEN

Some of the most interesting Arabicas in the world grow in Yemen, with "wild" flavors of spice, earth, fruits, and tobacco.

Coffee grew in Yemen long before it reached any other country outside of Africa. The small town of Mocha was the first port to establish commerical export.

Coffee still grows wild in some places, but the main cultivated areas grow old Typica and old Ethiopian strains. Varieties often share the same name as regions, making it difficult to trace and identify them.

YEMENI COFFEE KEY FACTS

WORLD RANKING 33RD LARGEST

Re

HARAZI

Hodeidah ISMAILI

DHAMARI

PERCENTAGE OF WORLD MARKET: 0.1% MAIN TYPES: ARABICA TYPICA, HEIRLOOM HARVEST: JUNE-DECEMBER PROCESS: NATIONAL

PRODUCER

HARAZI

Half way to the coast from Sana'a, the Jabal Haraz mountain range is home to the Harazi coffee growers, who produce classically complex, fruity, wine-like coffees.

MATARI

SAUDI ARABIA

Bamlat as Sab'atayn

Gulf

DHAMARI South of Sana'a. the

western districts of

M

Immediately to the west of Sana'a on the way to the port in Hodeidah, the area producing Matari coffee lies at a high altitude and is known to produce some of the more acidic Yemeni coffees.

N

R

Hadhramaw

of Aden

Al Mahrah

ASIA

OMAN



Ripening coffee cherries Yemeni coffees are often allowed to overripen and dry up on the branches.

ISMAILI

Named after a group of Muslims that settled in the area around Hutayb, Ismaili is both the name of a local variety and the general area, producing some of the more rustic Yemeni coffees.

the Dhamar governorate produce coffees that have classic Yemeni traits, but are often softer and rounder than the western coffees.

MATARI

SANA'A

• Ta'izz

Natural Heirloom

Unknown Heirloom varieties are naturally processed here, adding a unique local character.

0 km	150	
 		_
0 miles		150



COFFEES OF THE WORLD SOUTH AND CENTRAL AMERICA



BRAZIL

Brazil is the world's largest producer of coffee. Regional differences are difficult to distinguish, but it is widely accepted that Brazil produces soft-washed Arabicas and sweet naturals with mild acidity and medium texture.

In 1920, Brazil produced about 80 percent of all the coffee grown in the world. As other countries increased their production, Brazil's market share decreased to the current 35 percent, but it remains the largest producer worldwide. It mainly grows Arabica—Mundo Novo and Icatu varieties, among others.

After the devastating frost of 1975, many farmers established new plantations in Minas Gerais, which now alone produces nearly half of Brazil's coffee—enough to rival the output of Vietnam, the second largest producer in the world. When Brazil has a peak or slump in production, it sends ripples through the market and affects the livelihoods of millions—the price we all pay for our cup of coffee.

Today, there are about 300,000 farms across the country, ranging in size from an acre to more than 25,000 acres (1–10,000 hectares). Brazil consumes about half of all the coffee it produces.



PRECISE PLANTINGS Neat rows of trees on flat terrain help farmers to machine harvest—a key part of Brazil's farming system.



SOUTH AND CENTRAL AMERICA 93



COLOMBIA

Colombian coffees are generally rich and full bodied. They span a vast range of flavor attributes—from sweet, nutty, and chocolatey to floral, fruity, and almost tropical. Each region offers a distinct profile.

The mountains of Colombia create an abundance of microclimates that bring out potentially unique qualities in the coffee. All of the coffee is Arabica—including Typica and Bourbon varieties—and traditionally washed, and there are one or two harvests a year depending on the region. Some harvest the coffee cherries just from September to December, with another smaller harvest in April or May. Others harvest their main crop from March to June, and gain another crop from October to November. Two million Colombians rely on coffee for their livelihoods. Most of these people work for a group of small farms, but about 560,000 of them are producers who have only $2-4^{1/2}$ acres (1-2 hectares) of land. In recent years, the specialty industry has gained access to work with small farmers individually, buying small volumes and paying more for quality crops.

More and more Colombians drink Colombian coffee—around 20 percent of the total coffee production.



DRYING BEANS Beans usually dry on concrete, but where terrain is too steep, workers choose to dry them on rooftops.



SOUTH AND CENTRAL AMERICA 95



BOLIVIA

There are few known regional flavor profiles in Bolivia, but coffees can be sweet and balanced, floral and herbal, or creamy and chocolatey. It is a small coffee-producer with the potential to grow stunning varieties.

With a coffee culture that includes around 23,000 small, family-run farms of 5–20 acres (2–9 hectares) each, Bolivia consumes around 40 percent of the coffee it produces.

Bolivian coffees have only recently captured the interest of specialty buyers, as internal challenges of transportation, processing, and lack of technical support make quality unpredictable. Most coffee for export is shipped out via Peru, as Bolivia is landlocked, adding to its logistical challenges. Investment in education and new processing facilities near growing regions have improved quality, and exporters are starting to explore international markets.

Bolivia mainly grows Arabica varieties, such as Typica, Caturra, and Catuai. Coffee grows organically almost everywhere. Main regions of production are La Paz provinces, such as North and South Yungas, Franz Tamayo, Caranavi, Inquisivi, and Larecaja. Harvest times vary, as they depend on altitudes, rainfall patterns, and temperatures.



GROWING AND HARVEST A lot of Bolivian coffee is organic by default, as growers have little or no funds for chemicals.

BOLIVIAN COFFEE KEY FACTS	
PERCENTAGE OF WORLD MARKET: 0.1%	PROCESSES: WASHED, SOME NATURAL HARVEST:
TYPICA, CATURRA, CRIOLLO, CATUAI, CATIMOR	JULY-NOVEMBER CHALLENGES: UNRELIABLE TRANSPORTATION, LACK OF PROCESSING EQUIPMENT, AND TECHNICAL SUPPORT
WORLD RANKING 35TH LARGEST AS A PRODUCER: 35TH LARGEST IN THE WORLD	COFFEE PRODUCER

SOUTH AND CENTRAL AMERICA 97



PERU

A small number of well-textured. balanced coffees with earthy, herbal notes are produced in Peru.

Despite its high-quality

coffees, Peru faces problems of inconsistent standards. A major cause is the lack of internal logistics, but the government continues to invest in education and infrastructure, such as roads, as well as in new growing areas-especially in the north, where new Arabica is grown.

Peru mainly grows varieties of Arabica, such as Typica, Bourbon, and Caturra. Around 90 percent of the coffee is grown on around 120,000 small farms, most of them cultivating approximately 5 acres (2 hectares) each.

SOUTH AMERICA

TUMBES

CENTRAL

High altitudes of

3,900-6,560ft (1,200-

2,000m) above sea level

produce largely organic

well-structured textures.

MAIN TYPES:

coffees with soft acidity and

PIURA

ECUADOR

AMAZONAS

SAN MART

CALLAO ?

LIMA

HUÁNUCO

P

ANCASH

LAMBAYEQUE NORTHERN

CAJAMARCA

Washed Caturra.

Typica, Bourbon

TYPICA, BOURBON,

CATURRA, PACHE,

While normally grown and

it could add significant value.

sold as a mix, if Peruvian varieties were separated out

LA LIBERTAD

Trujillo

LORETO

Iquitos

COLONIBI

R

PASCO UCAYALI

CENTRAL JUNÍN

AYACUCHO

APURÍMA SOUTHERN

PUNO

TACNA

MADRE

DE DIOS

AREQUIPA Arequipa

MOQUEGUA

Lake Titicaca

PERUVIAN COFFEE

PERCENTAGE **OF WORLD** MARKET:

HARVEST: TEMRER PROCESS WASHF

WORLD RANKING AS A PRODUCER 9TH LARGEST COFFFF **PRODUCER IN THE WORLD**

SOUTHERN

This is the smallest coffeegrowing region in Peru. Most of the coffees are sold in bulk or through cooperatives, making it difficult to trace them.

2,5

•	NOTABLE COFFEE- PRODUCING REGIONS
њ¢	AREA OF PRODUCTION
0 km	300
0 mile	300

NORTHERN

About 70 percent of Peruvian coffee comes from the north, where new Arabica is planted. Most coffee is organic.

Washed Caturra

When well processed,

are clean and sweet.

roasted Peruvian beans

SOUTH AND CENTRAL AMERICA 99

ECUADOR

SOUTH AMERICA

MANABÍ

Portoviejo

GUAYAS

Varied ecosystems result in coffees that range in flavor, but most display classic South American qualities.

These qualities include a medium body, structured acidity, and pleasant sweetness. The Ecuador coffee industry faces challenges-the lack of credit facilities, low yields, and high labor costs are detrimental to quality. The overall area under cultivation has halved since 1985. It produces Robusta and low-quality Arabica. Most coffee is shade-grown and organic, and most smallholdings have their own wet mills. Still, the potential for quality is present in the highest altitudes, and in addition to Typica and Bourbon varieties, plantings of Caturra, Catuai, Pacas, and Sarchimor are taking place.

ECUADORIAN COFFEE

PERCENTAGE OF WORLD MARKET:

MAIN TYPES: 60% ARABICA 40% ROBUSTA

PROCESSES:	HARVEST:
WASHED AND	MAY-
NATURAL	SEPTEMBER
WORLD RANKING AS A PRODUCER:	19 1 H

Washed Robusta While naturally processed beans still dominate, washed Robustas are on the increase.

MANABÍ

This is the largest coffee-growing area, producing 50 percent of Ecuador's Arabica, both washed and natural. Coffee in this dry, coastal area grows at modest altitudes of 1,000–2,300ft (300– 700m) above sea level.



LOJA AND EL ORO

Old growing regions in the south, ranging from 1,640– 6,000ft (500–1,800m) above sea level, produce 20 percent of Ecuador's Arabica. Being a dry area, 90 percent of it is naturally processed. ZAMORA CHINCHIPE This southeastern region benefits from altitudes of 3,280–6,000ft (1,000– 1,800m) above sea level, and produces

mainly washed Arabicas that can be bright and sweet with hints of berries.

NOT PRO	ABLE COFFEE- DUCING REGIONS	
ARE	A OF PRODUCTIO	N

DECAFFEINATED COFFEE

Many myths surround caffeinated and decaffeinated coffee, their health benefits, and health risks. For those who love and appreciate the flavor of good coffee, but would like to reduce their caffeine intake, there are options.

IS CAFFEINE BAD FOR YOU?

Caffeine, a purine alkaloid, is an odorless, slightly bitter compound, which in pure form is an extremely toxic white powder. In natural, brewedcoffee form, caffeine is a common stimulant that, once ingested, rapidly affects the central nervous system and equally rapidly leaves the body. Its effects vary from person to person. It can increase your metabolism and give you a feeling of reduced fatigue, but it can also increase nervousness. Depending on your gender, weight, genetic heritage, and medical history, caffeine can be a positive pick-me-up or cause levels of discomfort, so it is important to have an awareness of how it makes you feel and the affect on your health.

HOW DO THE BEANS COMPARE?

Green decaf beans are darker green or brown in color. The darker hue is also apparent, but less noticeable, when they have been roasted. Due to weakened cell structure, you may see a sheen of oil on the surface of a light-roasted decaf. It may also appear smoother or more even in color.



THE TRUTH ABOUT DECAF

Decaffeinated coffee is readily available in most stores and cafes, and generally has 90–99 percent of the caffeine removed, reducing the level down to well below that of a cup of black tea, and to about the same as a mug of hot chocolate.

Sadly, most decaffeinated coffee is made from old or poor-quality green beans, and often comes

THE SCIENCE BIT

There are different methods of decaffeination– some introduce solvents and others rely on more natural processes. Look out for this information on decaf coffee bean labels.

SOLVENTS PROCESS

The beans are steamed or soaked in hot water to open up the cell structure. Ethyl acetate and methylene chloride are then used to rinse the caffeine out of the beans or from the water in which they were soaked. These solvents are not highly selective and can sometimes remove positive attributes from the coffee, and the process can damage the structure of the bean causing challenges in storing and roasting.

SWISS WATER PROCESS

The beans are soaked in water to open up the cell structure. A water-based green coffee extract, or water saturated with green coffee compounds, is used to wash the caffeine out. The extract is then filtered through carbon to remove the caffeine and reused to extract more caffeine until the desired level is reached. Chemical-free, this process is gentle on the bean and leaves much of its natural flavor intact.

The Mountain Water method is nearly identical in process, but is produced in Mexico using water from the Pico de Orizaba mountain. darkly roasted to cover up the unpleasant flavors. If you find a supplier that decaffeinates fresh, good-quality green coffee beans and roasts them well, the flavor will not be compromised. You may not be able to tell the difference between a regular and a decaf and can enjoy it without any ill effect.

CO2 PROCESS

Liquid CO₂ is used at low temperatures and pressure to extract the caffeine from the cells of the bean. This disrupts very little of the compounds that affect the flavor of the coffee. The caffeine is filtered or evaporated from the CO₂, and the liquid is reused to further soak more caffeine out of the beans. Preserving the natural flavors of the beans, this process is chemical-free, gentle, and considered organic.

CO₂ PROCESS DECAF BEANS This process leaves beans smooth and glossy with a deep green color.

GUATEMALA

Guatemalan coffees offer some exceptionally varied regional flavor profiles—ranging from sweet with cocoa and toffee notes, to herbal, citrus, or floral coffees that display a crisp acidity.

There are many microclimates

here—from the mountain ranges to the plains—and these, with the varied rainfall patterns and rich soils, create coffee with a huge range of flavors.

Coffee grows in nearly all of the departments, and the Guatemalan National Coffee Association has identified eight main regions that offer distinct profiles. Within these regions there are great variations in aroma and flavor, influenced by varieties and local microclimates. Around 670,000 acres (270,000 hectares) is dedicated to growing coffee varieties, almost all of which are washed Arabica, such as Bourbon and Caturra. A small amount of Robusta grows at lower altitudes in the southwest. There are nearly 100,000 producers, most of whom have small farms of 5–7 acres (2–3 hectares) each. Most farms deliver their coffee cherries to a wet mill for processing (see pp20–23), but it is increasingly common for producers to have their own small beneficios (processing plants).



HILLSIDE PLANTATION The lush hillsides of high-altitude Guatemalan coffee regions are often laced with clouds.



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EL SALVADOR

Producing some of the most flavorsome coffees in the world, El Salvador's coffee is sweet and creamy, with dried fruit, citrus, chocolate, and caramel notes.

The very first Arabica varieties to arrive in El Salvador were left undisturbed on farms while the country went through political and economical challenges. Almost two-thirds of the coffee grown now is Bourbon, the remaining onethird being mostly Pacas, and some Pacamara—a popular cross created in El Salvador.

There are about 20,000 growers in El Salvador—95 percent of whom have small farms of less than 50 acres (20 hectares) that are about 1,640– 3,900ft (500–1,200m) above sea level. Nearly half of these farms can be found in the Apaneca-Llamatepec region. As coffee is grown in the shade, coffee plantations have played a vital part in the battle against deforestation and loss of habitats for wildlife. If you removed these trees, El Salvador would have virtually no natural forest left.

In recent years, the growers have focused largely on improving the quality of their coffee and marketing it to specialty buyers—creating a trade that better withstands the fluctuations of the commodity market.



Washed Bourbon (CO₂ Decaf) Fresh, highland grown, intensely flavored beans are best suited to withstand the decaffeination process.

APANECA-LLAMATEPEC

This mountain range, encompassing Santa Ana, Sonsonate, and Ahuachapan, is the largest coffee-growing area in the country and contains a majority of the midto large-sized farms.

AHUACHAPÁN

ALOPTEPEC-

This small volcanic

includes well-known

Chalatenango. It has

the fewest farms, but

is often considered

to produce some of

the best coffees.

departments such

as Santa Ana and

region in the northwest

METAPAN



E L LA LIBERTAD

Lago de

Güija

ALOPTEPEC-

METADAN

San Salvador

SONSONATE

Sonsonate

EL BALSAMO-QUETZALTEPEC

EL BALSAMO-QUETZALTEPEC

In the southern parts of the central belt, the Balsamo Range and San Salvador volcano are home to nearly 4,000 growers who produce full-bodied coffees with a classic Central American balance.



COFFEE PLANTATION Coffee is often intercropped with false banana, other fruit trees, or trees grown for timber production.



Washed Pacamara A cross of Pacas and Maragogype, the Pacamara is often herbal and savory in taste.

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COSTA RICA

Costa Rican coffees are delicious and easy to drink. They display a complex sweetness combined with refined acidity. mellow textures, and a range of citrus, floral flavors.

Taking great pride in the coffee it grows and produces, Costa Rica has banned Robusta production to protect its Arabica varieties, such as Typica, Caturra, and Villa Sarchi. The government has also issued strict environmental guidelines to protect vulnerable ecosystems and the future of coffee production.

There are more than 50,000 coffee growers in Costa Rica, and around 90 percent of them are small producers with less than 12 acres (5 hectares) each. The industry has gone

PERCENTAGE

PROCESSESES:

WASHED, HONEY, NATURAL

WORLD RANKING 14TH LARGEST COFFEE

PRODUCER IN THE WORLD

MARKFT-HARVEST: through something of a revolution in the production of quality coffee. Numerous micro-mills have been built around growing regions, allowing single producers or small groups of farmers to process their own beans, control and add value to their crop, and trade directly with buyers around the world.

This development has helped younger generations to continue family farms in spite of unstable markets—a trend that is sadly not common everywhere in the world.

CENTRAL AMERICA

> Cordillera de Guanacaste Península Santa Elena

Gulf of Papagayo

GUANACASTE

Península de Nicova

Yellow Honey Villalobos The natural sweetness of the Villalobos can be intensified

further by the honey process. **COSTA RICAN COFFEE** KEY FACTS **MAIN TYPES:** TYPICA, CATURRA, VARIES FROM ATUAL VILLA SARCHI, BOURBON, GESHA. GION TO REGION VILLALOBOS LOCA

> The term "honey process" is used in Costa Rica to describe the pulped natural process (see p20), when varying degrees of pulp are left on the parchment. Honeys are white, yellow, red,

black, or gold.

Lake Nicaragua
SOUTH AND CENTRAL AMERICA 107

Washed Catuai

LIMÓN

PUNTARENAS

BRUNCA

Most Costa Rican coffees are washed. tasting bright and crisp even

after roasting.

Limón

Palaman ca



High-altitude coffee plantation Due to climate change, many producers in Costa Rica are choosing to plant Arabica farms at higher altitudes.

WEST VALLEY

Arenal

Laguna

C

PUNTARENAS

Puntarenas

Gull

01

Nicoy

The slopes of the Cordillera Central are perfect for growing coffee. They also have some of the highest altitudes of up to 6,560ft (2,000m) above sea level. A wealthier area than many others. 75 percent of its farms are reserved as forests. They harvest from November to April.



Yellow Honey Caturra Extensively grown in Costa Rica, the Caturras here are often sweet and chocolatev.

TARRAZÚ

Perhaps the bestknown coffee region in Costa Rica, Tarrazú grows mainly Caturra and Catuai, under shade, at altitudes of 3,900-6,200ft (1,200-1,900m) above sea level. The many sub-regions offer different characteristics and complex flavors. Harvest runs from November to March.

KEY



TRES RIOS

A small region east of San José between Tarrazú and Central Valley, Tres Rios grows classic, wellbalanced coffees at 3,900-5,250ft (1,200-1,650m)above sea level. Harvest runs from August to February.

BRUNCA

This southernmost region started growing coffee only in the 1950s. The two main areas are Coto Brus, a cooler, wetter area. and Perez Zeledon, at slightly higher altitudes of up to 5,580ft (1,700m) above sea level. Harvest runs from September to February.

NICARAGUA

The best Nicaraguan coffees show a range of flavors from sweet, fudge, and milk chocolate to more floral, delicate and acidic, herbal, savory, and honeyed—and specific flavor profiles vary from region to region.

There is no doubt that this large, thinly populated country is capable of growing excellent coffees. However, between devastating hurricanes and political and financial instability, both the production of coffee and its reputation have suffered. Nevertheless, as coffee is the main export, producers are keen to resurrect its standing in specialty markets and continue to work on enhancing their agricultural practices within an improving infrastructure.

There are about 40,000 growers in Nicaragua, 80 percent of whom have farms of fewer than 7 acres (3 hectares) each, at altitudes of 2,620–6,200ft (800–1,900m) above sea level. Most coffee grown here is Arabica, including varieties such as Bourbon and Pacamara. They are usually organic due to lack of funds for chemicals. The growers are hard to trace because they sell their coffee to large mills for processing, but single farms are beginning to trade directly with specialist buyers.



INCREASING YIELD Farmers are starting to prune and fertilize more effectively to increase the yield of their coffee trees.



SOUTH AND CENTRAL AMERICA 109



110 COFFEES OF THE WORLD

HONDURAS

Some of the most contrasting flavor profiles in Central America are produced in Honduras—from soft, low-acid, nutty, and toffee-like, to highly acidic Kenyan-style coffees.

Honduras is capable of growing very clean, complex coffees, but suffers from poor infrastructure and a lack of controlled drying facilities.

Over half of the coffee comes from just three departments. Smallholdings mainly grow varieties of Arabica, including Pacas and Typica. Coffee is often organic by default, and nearly all of it is shade grown. To promote local specialty coffee, the National Coffee Institute is investing in training and education.



PLANTATION IN AGALTA Coffee trees were first planted in Olancho, and now grow in nearly every department of Honduras.

> CENTRAL AMERICA



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PANAMA

Panamanian coffees are sweet and balanced, at times floral or citrus, well-rounded, and easy to drink. Unusual varieties, such as Geisha, are very expensive,

Most coffee grows in the western province of Chiriqui, where climate and fertile soils are perfect conditions, and the high altitudes of the Baru volcano aid slow ripening. This area mainly grows Arabica varieties, such as Caturra and Typica. Farms are small- to

medium-sized and family-run, and the country has good processing facilities and a well-developed infrastructure.

Lake

Gatún

COLÓN

Development threatens farmland, so the future looks treacherous for coffee here.

PANAMA CITY * San Miguelit

Lake

PANAMÁ Bayano

Pearl

Islands

"Wine" process mixed varieties The local "wine" process allows cherries to overripen on the trees (see p20).

a Palma

MAIN TYPES:

CATURRA, CATUAL

YPICA. GEISHA.

MUNDO NOVO

KUNA DE

MADUNGANDÍ

Gulf of KUNA DE WARGANDÍ Darien

BLAS

CENTRAL

AMERICA

Washed Caturra This variety is found throughout the country, but is

prevalent in Chirigui.

SAN

EMBERÁ WOUNAAN

DARIÉN

EMBERÁ

VOLCAN

NGÖBE

BUGLE

Coiba

Cordillera

A

Some of the highest located farms are found here. Regular rainfall and rich soils mean the Baru coffees are often particularly complex and sweet.

RENACIMIENTO

BOCAS

DEL TORO

COSTA

RICA

VOLCAN BOQUETE

CHIRIQUÍ • David

Gulf of Chiriqui

RENACIMIENTO

Panama's most northern coffee-growing region, Renacimiento is hard to reach and less well known. Right on the border with Costa Rica. Renacimiento has farms up to 6,560ft (2,000m) above sea level with great potential for clean. high-acidity coffees.

KEY **NOTABLE COFFEE-PRODUCING REGIONS AREA OF PRODUCTION**

M N Washed Geisha A Due to its success VERAGUAS in Panama, Geishas Santiago , are now planted Chitré, around the world. HERRERA Azuero LOS SANTOS Peninsula **PANAMANIAN COFFEE**

ent

BOOUETE

The oldest and best-known district for coffee in Panama. it is cool and misty and home to some of the most highly priced coffees in the world. Flavors range from cocoa to fruity with subtle acidity.





AS A PRODUCER:



COFFEES OF THE WORLD CARIBBEAN AND NORTH AMERICA



114 COFFEES OF THE WORLD

MEXICO

Coffees from Mexico are slowly emerging on the specialty market, gaining popularity for their sweet, soft, mild, and balanced flavors.

About 70 percent of Mexican coffee is grown 1,300–2,950ft (400–900m) above sea level. The coffee industry involves more than 300,000 people, most of whom are producers with small farms that are less than 60 acres (25 hectares) in size. Low yields, limited financial support, poor infrastructure, and little technical assistance make it difficult for producers to improve quality. However, specialty coffee buyers and producers with the potential to grow high-quality coffee are slowly discovering each other. Cooperatives and farms that grow coffee at altitudes reaching 5,500ft (1,700m) above sea level are also starting to export coffee with personality and complexity.

Tiiuana

Mexicali

P BAJA CALIFORNIA

SONORA

Hermosill

BAIA

SUR

CALIFORN

CHIHUAHUA

SINALOA

Culiacán

Almost all coffee produced is washed Arabica, such as Bourbon and Typica. Harvest starts around November in the lowlands, finishing around March in the higher regions.

MEXICAN COFFEE KEY FACTS	
PERCENTAGE 30	HARVEST: NOVEMBER-MARCH
MARKET: 070	PROCESSES:
MAIN TYPES:	WASHED, SOME NATURAL
JU% ARABILA	CHALLENGES:
BOURBON, TYPICA, CATURRA, MUNDO NOVO, MARAGOGYPE CATIMOR CATUAL GARNICA	LOW YIELDS, LIMITED FINANCIAL
10% ROBUSTA	POOR INFRASTRUCTURE
WORLD RANKING OTH I ADCECT	
AS A PRODUCER: OTHLARUEST	CUFFEE PRODUCER
IN THE WORLD	

CARIBBEAN AND NORTH AMERICA 115

NORTH AMERICA

COAHUILA

DURANGO

ZACATECAS

E

X

I C SAN LUIS

AGUASCALIENTES

POTOSÍ

Morelia

San Luis

Potosi

GUANAJUATO

Durango

NAYARIT

Tepic

Guadalajara

COLIMA

JALISCO

M



Washed Caturra, Catuai, Bourbon Mexican farmers often grow several varieties side by side.

PUEBLA

VERACRUZ

OAXACA

Navara

Puebla is the fourth

largest coffee-producing

region. Coffee from here

(1,400m) above sea level,

and is generally soft and

subtle with nutty tones.

is grown up to 4,590ft



Coffee seedlings in a nursery

In Mexico, as in most other countries and regions, coffee-tree seedlings start life growing in a nursery (see pp16-17), protected under shade cover.

CHIAPAS

Coffees from Chiapas can have stone-fruit flavors and cocoa notes. On the border with Guatemala, this tropical jungle in the southeastern corner is the largest and most popular coffee-producing area in Mexico.

Sea

Caribbean Yucatan Channel

Campeche

CAMPECHE

Mérida

YUCATÁN

Yucatan

Peninsula

OUINTANA ROO

VERACRUZ

Along the coast of the Gulf of Mexico, Veracruz has both high- and lowland-growing coffees that display a range of flavors and qualities.

Bahia de Campeche

Istmo

TABASCO

Tuxtla Tehuantepec

CHIAPAS



OAXACA

Acapulco

Monterrey

NUEVO

LEÓN

QUE RÉTARO

MEXICO CITY

GUERRERO

• Cuerna

MORELOS

Ouerétari

Toluca

TAMAULIPAS

On the southern Mexico coast, this region produces coffee up to 5,500ft (1,700m) above sea level, with medium body, chocolate and almond notes, and a delicate acidity.

ALA

PUEBLA

Washed Caturra. Catuai, Bourbon

Low in acidity. Mexican Arabica shines when lightly roasted.

PUERTO RICO

One of the smallest coffee-producing nations, Puerto Rico grows sweet, low-acidity coffees with a smooth, rounded texture and cedar, herbal, and almond notes.

Coffee production in Puerto Rico has declined in recent years due to political instability, climate change, and high production costs. It is estimated that nearly half of the crop is left unharvested due to a lack of pickers.

Farms are located throughout the western central mountains from Rincon to Orocovis, with most of the coffee grown at 2,460–2,780ft (750–850m) above sea level. However, there is also potential for growing at higher altitudes, such as in Ponce, where the highest peak reaches 4,390ft (1,338m) above sea level.

Arabica varieties are mainly grown here, such as Bourbon, Typica, Pacas, and Catimor. Puerto Ricans drink only a third of the homegrown coffee—the rest comes from the Dominican Republic and Mexico. A small quantity is exported.

ADJUNTAS

Mediterranean immigrants brought coffee to this area, which is nicknamed the "Switzerland of Puerto Rico" for its cool climate and altitudes of up to 3,280ft (1,000m) above sea level. Arecibo Bayamón LAS MARIAS

AMERICA

NORTH

JAYUYA

Also known as the indigenous capital of the country, nestled in the tropical cloud forests in the Cordillera Central, Jayuya has the second highest altitude in Puerto Rico.

Carolina

Sierra de

Luquillo

SAN JUAN

de Ca

Caguas

LAS MARIAS

Mayagüe

Known as the City of Citrus Fruit, Las Marias' agriculture also centers around coffee. Many of the old coffee haciendas are on the route of the Puerto Rican coffee tour operators.

PUERTO RICAN COFFEE

PERCENTAGE LESS THAN >	MAIN TYPES:
OF WORLD 0.01%	ARABICA
HARVEST:	BOURBON, TYPICA,
AUGUST-MARCH	CATURRA, CATUAI, PACAS
PROCESS:	SARCHIMOR LIMANI,
WASHED	CATIMOR PEDIMENT
WORLD RANKING 52ND	LARGEST

PRODUCER IN THE WORLD

Washed Pacas

ΔΥΠΥΔ

ADIUNTAS

Caribbean Sea

Centra

Imported from El Salvador, the Pacas grows successfully on Puerto Rican soil.

KEY

NOTABLE COFFEE- PRODUCING REGIONS AREA OF PRODUCTION		



Roasted washed Catimor A hybrid of Robusta and Arabica, Catimors grow and yield well in most areas, Puerto Rico being no exception.

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HAWAII

Hawaiian coffees are balanced, clean, delicate, and mild with some milk chocolate, subtle fruity acidity, and medium body. They can be aromatic and sweet.

Hawaii mainly grows varieties of Arabica, such as Typica, Catuai and Caturra. Hawaiian coffees are well-marketed and expensive, which means they are some of the most counterfeited coffees in the world especially the coffee from Kona. On the island, coffee has to have at least 10 percent Kona-grown coffee in it to bear the name, while, controversially, mainland US has no such rules.

Production and labor cost is high; many stages are highly mechanized.



COFFEE INTERCROPPING Growers are increasingly planting other trees alongside the coffee trees to help to provide shade.



118 FLAVOR PAIRINGS

FLAVOR PAIRINGS

You can pair coffee with complementary flavors to create exciting drinks. Try sweet, rich, fresh, or spicy pairings, for results that will surprise your palate.

Nuts

Pistachio, peanut, hazelnut, almond, cashew, chestnut, walnut, and pecan. The **Almond affogato** (p178) is topped with chopped almonds.

Berries

Raspberry, cherry, strawberry, and huckleberry. For a creamy berry-flavored coffee, try **Strawberry** *lace* (p180).

Drinks

Darjeeling tea, brandy, beer, cognac, whisky, Cointreau, rum, gin, and tequila. The classic alcoholic coffee, **Irish coffee** (p208) marries the flavors of whisky and coffee perfectly.

RICH

COLATEY

Herbs

Rosemary, sage, eucalyptus, tarragon, basil, peppermint, coriander, hops, chamomile, elderflower, and bergamot. **Breath of fresh air** (p195) pairs coffee with peppermint. Milk, milk substitutes such as soy, almond, or rice milk, cream, yogurt, and butter. For a

dairy-free option, try Rice

milk ice latte (p192).

Dairy

FLAVOR PAIRINGS 119

Exotic fruits Mango, lychee, pineapple, and coconut. For a hot,

delicious drink, coconut lovers can try **Mochi affogato** (p177).

Orchard fruits Apple, pear, and fig. For a hot black coffee with an apple-berry twist, try **I'm your huckleberry** (p168).

Citrus

Lemon and orange. Lemon juice adds freshness to a glass of cold-brewed coffee such as **Caribbean punch** (p 190).

Stone fruits

Apricot and nectarine. For a refreshing cold coffee, try **Apricot star** (p193).

Syrups and sweeteners

SPICA BRUTTY CARAMAN

> Honey, molasses, cocoa powder, and caramel. For a naturally sweetened cold coffee, try *Milk and honey* (p199).

Spices

Chile, vanilla, ginger, lemongrass, cinnamon, licorice, nutmeg, saffron, and cumin. Try **Syphon spice** (p172) for coffee infused with nutmeg.

JAMAICA

Some of the most well-marketed and expensive coffees in the world grow here. Beans are sweet, soft, and mellow, with nutty notes and medium textures.

The most famous Jamaican coffees are those from the Blue Mountain range. These iconic beans ship in wooden barrels rather than jute or burlap bags. The variety is expensive, but often counterfeit either partially or completely—and measures are being developed to protect it. Typica also grows here in large quantities.



BLUE MOUNTAIN PLANTATION A Jamaican coffee estate on the slopes of the Blue Mountain, with mineral-rich, fertile soil.



CARIBBEAN AND NORTH AMERICA 121

DOMINICAN REPUBLIC

MARÍA

There are several growing regions here with varying microclimates. They produce coffee that ranges from chocolatey, spicy, and heavy to floral, bright, and delicate.

As many Dominicans drink local coffee, only a modest amount is exported. Combined with low prices and hurricane damage, this has led

MONTE CRISTI

PUERTO PLATA

to a decline in quality. Most coffee is Arabica-Typica, Caturra, and Catuai. Measures are being taken to improve the coffee grown here.

CARIBBEAN



HARVEST SEASON Harvest runs almost all year, due to lack of a consistent climate or defined wet season.

> Coffees are full, sweet, and nutty in the lower regions and light, fruity, and floral at altitudes of up to 4,900ft (1.500m) above sea level.



COFFEES OF THE WORLD 122

CUBA

WEST

Cuban coffees have a mixed reputation and are highly priced. They are generally heavy-bodied. with low acidity, balanced sweetness, and earthy tobacco notes.

Coffee was introduced to Cuba in the mid-1700s. Cuba grew to become one of the world's largest exporters before political turmoil and economic restrictions saw it surpassed by South American countries. The majority of the crop is Arabica-Villalobos and

ARTEMIS

Isla 6-14. Cubans drink more coffee than they grow, so only a minor percentage is exported. Only a small part of the island has the altitude to grow speciality grades. but the mineral-rich soil and climate increases its potential.



CUBAN MOUNTAIN RANGES Steep Cuban mountain ranges provide a cool climate with good sun exposure.

Washed Villalobos

The sweetness of this variety can balance the rustic notes that local microclimates promote.

ISLA DE LA JUENTUD Juventud

HAVANA

HAVANA

MAYABEQUE

WEST

PINAR

DEL RÍO

Pinar del Río

The Sierra de Los Organos and Sierra del Rosario mountains of the Guaniguanico range are home to the western-most coffee growers in Cuba. The area is also part of a biosphere reserve. Coffees tend to be mild, solid, and sometimes spicy.

CENTRAL

Matanzas

MATANZAS

The Escambray and Guamuaya mountain ranges are 49 miles (80km) long and lie on the southern coast in central Cuba, where coffee grows up to just under 3,280ft (1,000m) above sea level and tends to have muted acidity,

VILLA CLARA

CIENFUEGOS

Santa Clar

CENTRAL

SPÍRITUS

• Cienfuegos SANCTI



CARIBBEAN



GUANTÁNAMO

EAST

CIEGO DE ÁVILA

C

The Sierra Maestra and Sierra Cristal are mountains along the southern coast of the east of Cuba. This area has the highest altitudes, with Turquino Peak rising up to 6,200ft (1,974m) above sea level-the best climate for more complex speciality coffee.



Washed Bourbon In local tradition Cuban coffees are often roasted to quite a dark level.



CUBAN COFFEE KEY FACTS PERCENTAGE LESS MAIN TYPE: HARVEST: THAN OF WORID MARKET: 0.1% FEBRUARY I ALOBOS **PROCESSES:** ISI A 6-14 WASHE SOME ROBUSTA **WORLD RANKING** THLAR A PRODUCER

heavy textures, and cedar notes.

CARIBBEAN AND NORTH AMERICA 123

HAITI

Most coffees from Haiti are naturally processed and nutty with fruity tones. Washed coffees with sweet and citrus notes are on the rise.

Coffee has been grown in Haiti since 1725. The country was once responsible for half of the world's production. Hindered by political turmoil and natural disasters, there are now few coffee-growing areas and skilled smallholders. A very high internal consumption adds to these challenges. However, with altitudes of 6,560ft (2,000m) and heavily shaded forest, the coffee industry has great potential. Haiti grows Arabica varieties, such as Typica, Bourbon, and Caturra.

Jérémie

GRAND'ANSE

CARIBBEAN

Tortue

ARTIBONITE **AND CENTER**

While these areas do not grow as much as the Nord department, the Belladere, Savanette, and Petite Riviere de l'Artibonite communes have a lot of potential for growth.



GRAND'ANSE

This easternmost region is home to a majority of the 175.000 families who grow coffee in Haiti, most of them with small farms with up to 17 acres (7 hectares) each.

> Washed Villalobos Haitian coffees tend to be naturals, but varieties like the Villalobos really shine when washed.

> > 0 km

KEY **NOTABLE COFFEE-PRODUCING REGIONS AREA OF PRODUCTION**





ESPRESSO MACHINE

An espresso machine relies on pump pressure to force water through coffee to extract the desired solubles. It produces a small and viscous drink when used correctly—an intense shot that is balanced between sweet and acidic. The technique for using the machine is shown on pages 42–47.

Warming time A standard machine takes about 20-30 minutes to heat up to the correct temperature, so keep this in mind before you brew.

WHAT YOU NEED

• Fine ground coffee (see p39)



The tamper

Use this to compress the bed of coffee down to expel pockets of air and create a compact, even layer of grounds. This layer needs to withstand the pressure of water and allow all the coffee to extract as uniformly as possible. A rubber tamping mat will protect your table from getting dented by the spouts.

The filter basket

The coffee is portioned into a removable filter basket held in place with a clip. Baskets come in a range of sizes depending on how much coffee you prefer to use when preparing your espresso. The number, shape, and size of the tiny holes at the bottom of the basket will also impact the result you get in the cup.

Portafilter

The filter basket fits into a portafilter, which is a handle with one or two spouts.

ESPRESSO MACHINE 127

Pressure gauge

Many home espresso machines are advertised as having unnecessarily high bar pressure. Professional machines are normally set to brew at 9 bars, with a steam pressure of 1–1.5 bars. Some machines will have the option of allowing pre-infusion, an initial phase of gently wetting the coffee before full pump pressure is applied.

Water

temperature Adjust this to 195-200°F (90-95°C) -this should bring out the best flavors in the coffee. Some coffees taste better with hot water, others better with cooler water.

The boilers

The machines will generally have one or two boilers inside, providing and heating up the water used for brewing, creating the steam used to steam milk, and a separate hot water tap for miscellaneous use.

The steam arm

The steam arm should be movable to allow you to set it at an angle that works for you. The steam tips or nozzles come in various options that allow you to choose the force and direction of steam that you enjoy working with. Keep this clean at all times, as milk quickly bakes on both the inside and outside of the steam wand.

The group head

The portafilter fastens into a group head where water is dispersed through a metal screen onto the bed of coffee, saturating and extracting it evenly.

FRENCH PRESS

The classic press, sometimes known as a cafetière, is a great vessel for brewing good coffee. It's simple and quick—water and coffee infuse together before a mesh filter pushes through the brew, leaving oils and fine particles. This gives the coffee a great texture.

WHAT YOU NEED

- Medium-coarse ground coffee (see p39)
- **Digital weighing scale** to help get the coffee-water ratio right.

HOW IT WORKS

- Preheat the press with hot water then discard the water. Place the press on a scale and tare.
- 2 Add the coffee to the press and tare again. A good ratio to start with is 1oz (30g) coffee to 16fl oz (500ml) water.
- 3 Add the water, checking it is the right volume and temperature, preferably 195–200°F (90–94°C).
- **4** Stir the coffee once or twice.
- **S Leave to brew** for 4 minutes, then carefully stir the surface again.
- **6 Skim** the foam and floating particles off the surface with a spoon.
- Place the filter on top of the press and gently push down until the grounds are collected at the bottom. If you meet too much resistance, you may have used too much coffee, too fine a grind, or not let the coffee steep for long enough.
- **3** Allow to rest in the press for a couple of minutes, then serve.

CLEANING

• Often dishwasher safe Check your model.

• **Dismantle** This avoids trapped grounds and oils that may impart a bitter or sour flavor.



Plunger

This plunger pushes the mesh filter through the brew, and separates and retains the grounds at the bottom of the pot.

Brew Time

Brew for 4 minutes. After plunging, allow the press to rest for 2 minutes more to allow particles to settle before you pour.

 $(\)$

Mesh filter Unscrew each element of this after you've served (see

Cleaning, left).

Stir twice Stir before brewing to saturate the grounds, then after to settle them.

FILTER **POUR-OVER**

Brewing through a paper filter is an easy way to make coffee straight into a mug or serving vessel. As the grounds are easily disposed of with the paper filter, the method is also clean and stress-free.

WHAT YOU NEED

- Medium ground coffee (see p39)
- · Digital weighing scale to help you get the coffee-water ratio right.

HOW IT WORKS

- **1 Rinse** the paper filter well. Preheat the filter holder and pitcher or mug with warm water. Discard the water.
- **2** Place the pitcher or mug onto a scale. Place the filter on top. and tare.
- 3 Add the coffee to the filter and tare again. A good ratio to start with is 2oz (60g) coffee to $1^{3}/_{4}$ pints (1 liter) water.
- A Saturate the grounds with a little water at preferably 195-200°F (90-94°C), and leave them to swell for about 30 seconds to allow the "bloom" to settle.
- **5** Keep pouring water over in a slow, continuous stream or in portions until you have poured over the right volume of water. Serve when the water has filtered through.

CLEANING

- Dishwasher safe Most filter holders are machine washable.
- Sponge wash Use a soft sponge and some lightly soapy water to rinse off any oils and particles.

Filter holder

This sits on top of your jug or serving vessel.

Filter grid Supports the filter in the holder.

It should take 3-4 minutes for the water to filter through. Play with grind and dose until you get a time and flavor that you like.

Paper filter

These hold back fine particles and oil. While they can impart some flavor to the brew. choosing bleached filters and rinsing them well helps to reduce the paperlike taste.

Pouring water

Keep the coffee submerged when you pour over the water, or let it build up along the sides of the filter as the water flows through the center-see what works for you.

Brew time

Serving jug Brew into a pitcher or directly into a cup.

CLOTH BREWER

A traditional way of filtering through the grounds, cloth-brewing is also known as "sock" or "nel" brewing. Fans prefer it to paper-filter brewing because the process doesn't impart a papery flavor. The coffee also gains a richer texture due to the oils that pass through the cloth.

WHAT YOU NEED

Medium ground coffee (see p39)
Digital weighing scale to help you get the coffee-water ratio right.

HOW IT WORKS

- Rinse the cloth filter thoroughly in hot water before the first use to clean and preheat the filter. If you have frozen your filter (see below), this process will defrost it at the same time.
- Place the filter on top of the brewing vessel and pour hot water through to preheat it. Discard the water.
- 3 Tare the brewer by placing it on a digital scale.
- Add the coffee, working on a base recipe of ½oz (15g) coffee to 9oz (250ml) water.
- Wet the grounds with a little water at approximately 195-200°F (90-94°C). Let them swell for 30-45 seconds to allow the "bloom" to settle down.
- Continue pouring water over the coffee in a gentle, continuous stream or in stages. When all the water has filtered through, serve the coffee.

CLEANING

- Reusable Discard the grounds and rinse filters in hot water. Do not use soap.
 Keep moist Either freeze filters when wet
- or keep in a sealed container in the fridge.

Pouring water

Try not to overfill the filter when you pour the water over the coffee grounds. Instead, pour it at a gentle speed so that the filter is never more than threequarters full.

Cloth filter

Filter function

As the water is poured over the coffee, the cloth holds back the fine coffee particles.

Brew time The water should take 3-4 minutes to filter through. Play with the grind and dose until you get the right time and flavor.

Serving pitcher

AEROPRESS

A quick and clean brewer, an AeroPress can brew a full filter-style cup, or a strong, more concentrated coffee that can be diluted with hot water. It is easy to play with grind, dose of coffee, and pressure, making it a wonderfully flexible choice.

WHAT YOU NEED

- Fine-medium ground coffee (see p39)
- **Digital weighing scale** to help you get the coffee-water ratio right.

HOW IT WORKS

- **1 Insert the plunger** about ³/4in (2cm) into the brew chamber.
- 2 Tare the AeroPress by placing it on a scale, inverted, plunger down and brew chamber up. Ensure the seal is tight and stable and that the AeroPress will not fall over.
- **3** Add ¹/₄oz (12g) coffee to the brew chamber and tare the brewer again.
- Add 7fl oz (200ml) hot water and stir carefully to avoid knocking the AeroPress over. Let sit for 30-60 seconds and stir again.
- Flace a filter paper in the cap and rinse it well, then screw it onto the brew chamber.
- Quickly but gently flip the AeroPress over to sit filter cap down on top of a sturdy cup or serving vessel.
- Press the plunger down gently to brew the coffee into your cup. Serve.

CLEANING

- Taking apart Twist off the filter cap and push the plunger all the way through to pop out the spent grounds in the filter. Discard.
- Wash Rinse well and use soapy water, or wash in the dishwasher.

ALTERNATIVE METHOD

Rather than flipping the AeroPress over the cup at step 6, place the empty AeroPress (with filter paper in the cap) over the vessel. Add coffee and water. As soon as the coffee and water are poured in, the plunger needs to be quickly placed on top to keep the coffee from dripping into the cup.

Brew chamber

The coffee and water in the brew chamber is compressed through a filter by the plunger.

Filter cap The paper filter sits in the filter cap and is screwed to the brew chamber.



This sits inside the brew chamber and is used to push the coffee through the filter cap.

SYPHON

One of the most visually interesting methods of brewing coffee, syphons are particularly popular in Japan. Brewing takes time in a syphon, but this is part of its ceremonial appeal.

WHAT YOU NEED

Medium ground coffee (see p39)

HOW IT WORKS

- Fill the bottom bowl of the syphon with near-boiling water, up to the desired number of cups.
- Position the filter in the brew chamber by dropping it in and pulling the beaded string through the funnel until the little hook can fasten to the opening. The string should touch the glass of the bowl.
- **3 Place the funnel** gently into the bowl of water. Rest the chamber on a slight slant without sealing the bowl off.
- Light the flame, and as the water starts to boil, secure the brew chamber onto the bowl. Don't tighten it, just ensure it is sealed. The brew chamber will begin to fill. Some water remains in the bowl below the funnel.
- When the brew chamber has filled, add the coffee-1/20z (15g) coffee to 9fl oz (250ml) water-and stir for a few seconds.
- **6** Allow to brew for one minute.
- Stir the coffee again and remove the flame to begin the draw down process.
- **When the coffee has drained** into the bottom bowl, gently remove the brew chamber and serve.

CLEANING

- **Paper filter** Discard this and rinse the filter holder in soapy water.
- Cloth filter Use the technique on p130.

Brew chamber

Filter _

The filter-paper or cloth-sits at the bottom of the brew chamber.

Water Use near boiling water to speed up the percolation process.

> Bottom bowl _____ This holds the water into which the funnel is placed.

Hot glass

Always take great care when working with the flame and the hot glass, as both the syphon and coffee will be hot.

Ground coffee Add the coffee only after the water has traveled into the

traveled into the brew chamber.

BREWERS 133

Filter

Bottom pot

STOVE-TOP POT

The stove-top, or moka pot, brews a strong cup of coffee using steam pressure, which imparts a silky texture. Contrary to popular belief, it is not designed to make espresso, but its use of high temperatures gives the coffee an intense flavor.

WHAT YOU NEED

Medium ground coffee (see p39)

HOW IT WORKS

- Pour hot water into the bottom part of the pot until it is just under the inside valve.
- **2** Fill the filter with coffee loosely, using a ratio of a scant 1oz (25g) coffee to 16fl oz (500ml) water. Level it off.
- **3** Place the filter in the bottom pot and screw on the top section.
- Place the stove-top pot over medium heat, leaving the lid open.
- **5** Monitor the brew as the water boils and coffee begins to appear.
- Remove the pot from the heat when the coffee goes pale in color and starts to bubble.
- **Wait until the bubbling stops**, then serve.

CLEANING

- Allow to cool Let the pot sit for 30 minutes before dismantling it, or run it under cold water to cool it down.
- **Sponge in hot water** Do not clean the parts with soap. Using a nonabrasive sponge or brush and hot water will be sufficient.

 Open lid uppen when brewing, so you can watch the process.
 Heating the coffee try hot, so be careful to protect your hands from the heat with oven gloves.

 Open lid uppen when brewing, so you can watch the process.
 Open lid the coffee try hot, so be careful to protect your hands from the heat with oven gloves.

Boiling water Avoid a burnt flavor in the coffee by using near boiling water. This will help regulate the temperature of the liquid and prevent the whole pot from

overheating.

Ground coffee

There is no need

to compact the

grounds, only to

level them.

COLD DRIPPER

Use cold water to brew low-acidity coffee that can be served cold or hot. It is not as easy to extract with cold water, so it requires more time and a cold dripper tower. If you don't have one, you can also add the coffee and water to a French press, leave it overnight in the fridge, then strain it through a filter.

WHAT YOU NEED

Medium ground coffee (see p39)

HOW IT WORKS

- 1 Close the drip valve on the top chamber and fill it with cold water.
- 2 Rinse the middle chamber filter thoroughly, and add the coffee. Use a ratio of 2oz (60g) coffee to 16fl oz (500ml) water.
- Shake gently to distribute evenly, and cover with another rinsed filter.
- Open the valve and allow a small amount of water to run into the coffee to wet it and start the extraction.
- Adjust the valve to drip about once every two seconds, or 30–40 drops per minute.
- When all the water has dripped through, you will have cold coffee you can enjoy neat, diluted with hot or cold water, or served over ice.

CLEANING

• **Hand wash** Follow the manufacturer's instructions. If in doubt, wash gently with hot water and a soft cloth, without soap. Rinse the cloth filter in water and store it in the fridge or freezer between uses.

Brew time It should take around 5-6 hours for 16fl oz (500m) of brewed coffee to filter through the cold dripper tower.

Middle chamber

Filter

BREWING DOUBLE-STRENGTH

Another way to produce cold-brewed coffee is to brew it double-strength over ice using a filter pour-over, cloth brewer, or AeroPress. Use 2oz (60g) coffee and 16fl oz (500ml) hot water. Fill a serving vessel with ice cubes; while brewing, the ice will chill and dilute the coffee to the right temperature and strength. Note that this method will bring out acids and compounds from the coffee not extracted with a cold dripper.



Top chamber

ELECTRIC FILTER-BREW

This humble coffee maker may not seem like an exciting way to brew, but it can produce great coffee if you use quality beans and fresh water. It is easy to clean, as the grounds are easily removed and composted. Brew time It should take about 4-5 minutes. If you have brewed too much coffee, decant the leftover into a preheated thermos.

WHAT YOU NEED

Medium ground coffee (see p39)
 Preheated thermos to store leftover coffee.

HOW IT WORKS

- 1 Fill the reservoir of the machine with fresh, cold water.
- **2 Rinse the paper filter** thoroughly and place it in its holder.
- Add coffee measuring about 2oz (60g) coffee to 1¼ pints (1 liter) water and shake the filter holder gently to distribute.
- Place the filter back in the machine and start the brew cycle. When the machine has finished brewing, serve.

CLEANING

- **Use filtered water** This reduces limescale build-up and helps to keep the heating element and water lines clear.
- **Descaling** A descaling solution can be a good preventative measure against limescale build-up.



PHIN

Easy to use, the Vietnamese phin uses a gravity-based filter insert to compress the coffee. In Chinese phins, the filter is screwed on, allowing more extraction control. All phins are very user-friendly, enabling you to change grind and dose to your preference.

WHAT YOU NEED

Filter

Cup

Fine-medium ground coffee (see p39)

HOW IT WORKS

- **Preheat** the phin by placing the phin saucer and the phin cup on top of a mug, and pouring hot water through. Discard the water from the mug.
- 2 Place the coffee in the bottom of the phin cup-use a ratio of a heaped teaspoon (7g) coffee to 3¹/₂fl oz (100ml) waterand shake gently to distribute the coffee grounds evenly.
- Output: Place the filter on top, twisting it a little to even out the grounds.
- Our about one-third of the hot water over the filter. Allow the coffee to swell for 1 minute.
- Continue to pour the rest of the water over the filter. Place the lid on the phin to retain the heat, and watch as the water slowly drips through to brew the coffee. After 4–5 minutes, serve your drink.

CLEANING

- **Dishwasher** Most can be washed in the dishwasher, but check your instructions.
- **Easy cleaning** Hot water and soap are also fine for removing coffee oils from the metal cup and filter.



Mug

IBRIK

Popular in Eastern Europe and the Middle East, the ibrik, also known as cezve, briki, rakwa, finjan, and kanaka, is a tin-lined copper pot with a long handle. It brews coffee with a distinct, thick texture. The superfine grind, amount of heat, and grindwater ratio produces a full-flavored coffee.

WHAT YOU NEED

• Very fine, powder-like coffee (see p39)

HOW IT WORKS

- Pour cold water into the ibrik, and bring it to a boil over medium heat.
- **2 Remove** from the heat.
- Add coffee to the ibrik-1 teaspoon per cup-and any additional ingredients, if desired.
- 4 Stir to dissolve and infuse the ingredients.
- Return the ibrik to the stove and heat the coffee while stirring gently until it starts foaming. Do not allow to boil.
- **6 Remove from the heat** and allow to cool for 1 minute.
- Return to the heat and warm back up while stirring gently until it starts foaming. Again do not allow to boil. Repeat this.
- **8** Spoon a little foam into the serving cups and carefully pour the coffee in.
- Let it settle for a couple of minutes, and serve. Take care to stop sipping when you reach the grounds in the bottom of the cup.

CLEANING

- Sponging Use a nonabrasive sponge or soft brush with some hot soapy water to hand wash the ibrik.
- **Care** The tin lining might darken over time. This is normal so do not attempt to remove it.

Repeated heating You can heat the coffee once, if you prefer, but reheating it several times creates the distinctive thick texture.

Handle

The long handle requires some precision. When pouring the coffee into the cup, pour slowly so that the foam does not collapse.

Brew chamber

It is traditional to mix sugar and spices in with the ground coffee. See recipe, p169.

SERVING VESSELS

The texture, shape, size, and design of the vessel you serve coffee in can affect your drinking experience. Many argue that certain cups, glasses, and mugs must be used for certain recipes—but it often comes down to personal preference.

While some cups were designed to enhance the presentation of the beverage, such as the espresso cup, others were designed with a more practical purpose in mind. For instance, the first American diner mugs were thick enough to retain heat for a long time, rough at the bottom so they would not slide around on the table, and nearly indestructible, making them perfect for use in the military during World War II.

Design aside, it is fun to try out different drinking vessels from time to time, to enhance both the presentation and experience.



A soft, rounded interior allows the crema to land gently and retain its texture, heat, and visual appeal.

Large cup Sometimes it is okay to want a big cup of coffee—just choose a ceramic one that is insulating enough to keep your beverage warm.

SERVING VESSELS 139

Earthenware cup

Many like the sensory experience of earthenware on their lips. The material also retains heat well.



The good old-fashioned diner mug feels heavy and comforting in the hand. A thick edge feels softer on the lips than a thin one.



Medium glass

Perfect for a cold coffee, this is great for serving a small latte too. Beware as the glass can get quite hot.



The shape of the brandy snifter helps concentrate the aromas and entice your senses. Enjoy the aromas of a fruity Kenyan syphon in a brandy snifter.

Coupette

Serve iced coffee in a frosted coupette to add an elegant twist to a coffee cocktail. Decorate the rim for added presentation value.

Small bowl

Around the world, many drink coffee served in small

communities traditionally bowls at social gatherings.

Large bowl

Traditionally used for café au lait, beware that a large surface area will cool your coffee quickly. Choose a thick, ceramic bowl to retain heat for as long as possible.



a hot day, a large glass will hold as much ice as you need to keep it cool. Synonymous with caffè lattes, this tall glass can showcase the pretty layers of any large coffee.





THE RECIPES



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CAPPUCCINO

GEAR ESPRESSO 🚺 DAIRY MILK 📗 TEMP HOT 🖉 SERVES 2

Most Italians drink their cappuccino in the mornings, but this classic breakfast coffee has now been adopted as an all-day drink worldwide. For many fans, the cappuccino represents the most harmonious ratio of coffee to milk.



WHAT DO I NEED?

Equipment 2 medium cups espresso machine milk pitcher

Ingredients ¹/2-³/402 (16-20g) fine ground coffee about 4-5fl oz (130-150ml) milk chocolate or cinnamon powder, optional



Warm your cups on top of your machine or by heating them with hot water. Using the technique on pp44-45, brew one shot/ 1fl oz (25ml) of espresso into each cup. 2 Steam the milk to about $140-150^{\circ}F$ ($60-65^{\circ}C$). Avoid scalding it. When the bottom of the pitcher is just too hot to touch, the milk is at a comfortable drinking temperature (see pp48–51).

TIP

This recipe shows you how to make two cups, but it is easy enough to make one-you can use a single basket and/or single spout portafilter. If all else fails, you could always treat a friend to the spare espresso!
HAVING OUTGROWN ITS ORIGINS AS AN ITALIAN BREAKFAST DRINK, THE CAPPUCCINO IS NOW POPULAR ALL OVER THE WORLD



4 Using a shaker or a mini sieve, sprinkle over some chocolate or cinnamon powder, if desired.

CAFFÈ LATTE

GEAR ESPRESSO A DAIRY MILK 📙 TEMP HOT 🖉 SERVES 1

The caffè latte is another classic Italian breakfast beverage. It is milder in taste and heavier on the milk than all the other espresso-based recipes. It is now popular all over the world and is enjoyed throughout the day.



medium glass

Warm the glass on top of your machine or by heating it with hot water. Using the technique on pp44-45, brew **one shot/1 fl oz** (25ml) of espresso into your glass. If your glass does not fit under the spouts, brew your shots into a small pitcher instead.

2 Steam **about 7fl oz (210 ml) milk** (see pp48–51) to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch.

If your espresso has been poured into a small pitcher, pour it into the glass. Pour the milk over the coffee, holding the pitcher close to the cup and pouring with a gentle side-to-side rocking motion. If desired, create a tulip latte art design, as shown on p54. Aim for a 1/4 in (5mm) layer of foam.

SERVE IT UP Serve immediately, with a spoon to stir. If you prefer a latte to have a crisp white layer of foam on top, simply brew your espresso into a small pitcher, then pour your milk into the glass first, followed by the espresso.

CHOOSE A COFFEE THAT HAS RICH COCOA OR NUTTY TONES TO COMPLEMENT THE SWEETNESS OF STEAMED MILK





FLAT WHITE

GEAR ESPRESSO 🚺 DAIRY MILK 🌡 TEMP HOT 🖉 SERVES 1

Originally from Australia and New Zealand, this recipe varies from region to region. The flat white is similar to a cappuccino, but has a stronger coffee flavor, less foam, and is usually served with elaborate latte art on top.



medium cup

2 Steam **about 4fl oz (130ml) milk** (see pp48–51) to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch.

Pour the milk over the coffee, holding the pitcher close to the cup and pouring with a gentle side-to-side rocking motion, using the techniques on pp52–55. Aim for a 1/4in (5mm) layer of foam.

SERVE IT UP Serve immediately—the longer the drink is sat waiting, the more likely it is that the milk will lose its glossy shine.

TRY FRUITY OR NATURALLY PROCESSED COFFEES. COMBINED WITH MILK THEY BRING OUT A FLAVOR REMINISCENT OF STRAWBERRY MILKSHAKE





BREVE

GEAR ESPRESSO 🚺 DAIRY MILK 📗 TEMP HOT 🖉 SERVES 2

The breve is an American take on the classic latte. A twist on typical espressobased beverages, it replaces half the milk with half-and-half (ideally with about 15 percent fat content). Sweet and creamy, try it as an alternative to dessert.



WHAT DO I NEED?

Equipment 2 medium glasses or cups espresso machine milk pitcher

Ingredients

1/2-3/402 (16-20g) fine ground coffee
2fl oz (60ml) milk
2fl oz (60ml) half-and-half



Warm the glasses or cups on top of your machine or by heating them with hot water. Using the technique on pp44–45, brew one shot/1fl oz (25ml) of espresso into each glass.



Steaming with cream is a different experience. The sound while steaming a combination of milk and cream may be louder than when you steam pure milk, and will not result in as much foam. BREVE TRANSLATES FROM ITALIAN INTO "BRIEF" OR "SHORT." THE HALF-AND-HALF HELPS TO CREATE A FOAMY, DENSER DRINK



2 Mix the milk and cream and steam to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch (see pp48–51).

3 Pour the steamed milk and cream mixture over the espresso, allowing the crema and the thick foam to combine.

MACCHIATO

GEAR ESPRESSO 1 DAIRY MILK 1 TEMP HOT 2 SERVES 2

Another Italian classic, the macchiato gets its name from the custom of "marking" the espresso with milk foam, which lends a little more sweetness to the shot as you drink it. It is sometimes also called a caffè macchiato or an espresso macchiato.

WHAT DO I NEED?

Equipment 2 demitasse cups espresso machine milk pitcher

Ingredients ¹/₂-³/₄oz (16-20g) fine ground coffee 3¹/₂fl oz (100ml) milk



Warm the cups on top of your machine or by heating them with hot water. Using the technique on pp44–45, brew one shot/1fl oz (25ml) of espresso into each cup.

YOU NEED ONLY THE SMALLEST TOUCH OF MILK FOAM FOR AN AUTHENTIC ITALIAN MACCHIATO. IT ADDS A TOUCH OF SWEETNESS

TIP

While a traditional Italian macchiato has only espresso and milk foam, it is not unusual to find versions elsewhere that incorporate some of the warm liquid milk that is created when you steam to make the foam.





2 Steam the milk (see pp48–51) to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch.

3 Carefully spoon 1-2 teaspoons of foam on top of the crema of each espresso shot, and serve.

CAFFÈ MOCHA

GEAR ESPRESSO A DAIRY MILK 📗 TEMP HOT 🖉 SERVES 2

Coffee and dark chocolate are a classic flavor combination. Add chocolate pieces, shavings, or homemade or store-bought chocolate sauce to a caffè latte or cappuccino to create a rich, slightly sweet, dessert-like beverage.



WHAT DO I NEED?

Equipment 2 large glasses milk pitcher espresso machine small pitcher

Ingredients 4 tbsp dark chocolate sauce (see pp162-63) 14fl oz (400ml) milk $1-1^{1/2}$ oz (32-40g) fine ground coffee



Measure out the chocolate sauce. Pour it into your glasses.



Steam the milk (see \square pp48–51) to about 140-150°F (60-65°C), or until the pitcher is just too hot to touch. Add enough air to create a foam layer of about 1/2in (1cm).

tablespoons of powdered with a drop of milk first so they blend into the drink and don't go lumpy.

Pour the steamed milk carefully O over the chocolate sauce in each glass to achieve a striking lavered effect.

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DARK CHOCOLATE IS MOST COMMONLY USED; TRY MILK CHOCOLATE OR A MIX OF THE TWO FOR A SWEETER FLAVOR



For a uniform chocolate flavor, mix the milk with the chocolate sauce in the pitcher, and steam them together. Afterward, make sure you thoroughly clean your steam wand inside out before you use it again 5 Serve as the espresso blends into the steamed milk. Stir gently with a long spoon to continue to dissolve and mix the ingredients.



 $\begin{array}{c} 4 \\ \text{Using the technique on} \\ \text{pp44-45, brew two} \\ \text{double shots/11/2fl oz} \\ \text{(50ml) of espresso into} \\ \text{small pitchers and pour} \\ \text{them through the milk.} \end{array}$

CAFÉ AU LAIT

GEAR BREWER DAIRY MILK . TEMP HOT SERVES 1

The classic French breakfast coffee with milk is traditionally served in a bowl with no handles, big enough to accommodate the dipping of a baguette. Picking up the bowl to drink will warm your hands on chilly mornings.

WHAT DO I NEED?

Equipment drip or filter-style brewer small saucepan large bowl

Ingredients 6fl oz (180ml) strong filter coffee 6fl oz (180ml) milk



CHOOSING YOUR COFFEE

For an authentic flavor, choose a darker roast. The French have a tradition of roasting their coffee until it is a bit oily and bittersweet. This style works best of all when combined with a lot of whole milk.

Prepare the coffee in your choice of drip or filter-style brewer (see pp128-37).

While the French press (see p128) might seem the most appropriate brewer for a café au lait, a lot of people in France use the stove-top moka pot at home (see p133), which can create a stronger brew.

WHOLE MILK, WARMED SLOWLY ON THE STOVE, COMPLEMENTS A STRONG, DARK ROASTED FILTER COFFEE

TIP

If you want something to dip into your café au laitbut don't fancy the traditional French baguette-why not keep with the theme and choose a delicious flaky croissant or pain au chocolat?



2 Pour the milk into the small saucepan and set over medium heat. Allow it to heat up gently for about 3-4 minutes, until 140-150°F (60-65°C). **3** Pour the brewed coffee into the bowl. Pour in the warm milk to taste, and enjoy.

ESPRESSO CON PANNA

GEAR ESPRESSO A DAIRY CREAM TEMP HOT SERVES 1

Con panna is Italian for "with cream." A topping of luscious whipped cream can be added to any beverage—be it a cappuccino, caffè latte, or caffè mocha. It makes for a great presentation and adds a velvety quality to the drink.



Equipment demitasse cup or glass espresso machine whisk

Ingredients ¹/2-³/40z (16-20g) fine ground coffee heavy cream, sweetened to taste



Warm the cup or glass on top of your machine or by heating it with hot water. Using the technique on pp44–45, brew a double shot/ $1^{1}/_{2}$ fl oz (50ml) of espresso into the glass. ADDING CREAM IS NOT SOLELY AN ITALIAN PRACTICE. IN VIENNA, A CAPPUCCINO IS OFTEN SERVED WITH A LID OF WHIPPED CREAM



2 Pour the cream into a small bowl. Using a whisk, whip up the cream for a few minutes until it is stiff enough to hold its shape.

3 Spoon 1 tablespoon of whipped cream on top of the double espresso shot. Serve with a spoon for stirring.

TIP

If you prefer a softer taste, you can whisk the cream until thick but not stiff, and float it on top of the crema This allows the espresso and cream to combine as you sip your coffee, diluting the double shot.

RISTRETTO AND LUNGO

GEAR ESPRESSO DAIRY WITHOUT UT TEMP HOT SERVES 2

Alternatives to the "normale" espresso are "ristretto" and "lungo." All that changes is how much water you allow to pass through the grounds-you either restrict the extraction, or let the shots run long to wash out more solubles.

WHAT DO I NEED?

Equipment espresso machine 2 demitasse glasses or cups

Ingredients $\frac{1}{2}-\frac{3}{40z}$ (16-20g) fine ground coffee per shot

RISTRETTO

The ristretto is espresso for the advanced drinker-an essence of coffee that leaves a strong, lingering aftertaste.



Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso into each glass or cup.



Stop the flow of water at about 1 tbsp- $\frac{1}{2}$ fl oz (15-20ml) in each glass or cup (after 15-20 seconds), for a concentrated sip of coffee with a thick texture and intensified flavors.

As an option, you can use a slightly finer grind or more coffee to restrict the water and extract more solubles, although these methods often result in increased bitterness, which you want to avoid.

RISTRETTO MEANS "RESTRICTED" AND LUNGO TRANSLATES AS "LONG." SURPRISINGLY, A RISTRETTO CONTAINS LESS CAFFEINE THAN A LUNGO

LUNGO

A softer version of the espresso, a lungo is brewed with an increased volume of water.



Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso into each glass or cup.



2 Instead of turning off the flow of water into each glass or cup at around 1fl oz (25ml), or after 25–30 seconds, let it continue to brew through until you reach anything from $1\frac{1}{2}$ –3fl oz (50–90ml). Allowing an increased volume of water to pass through an amount of grounds intended for a normale espresso will result in a milder cup, thinner body, and higher astringency.

TIP

By brewing a lungo into a 3fl oz (90ml) demitasse glass or cup, you have an easy measure of volume that helps you to know when to cut the flow of water, and avoids any excessive compromise of flavor.

AMERICANO

GEAR ESPRESSO 💧 DAIRY WITHOUT 👢 TEMP HOT 🖉 SERVES 1

During World War II, American soldiers in Europe found the local espresso too strong. They diluted the shots with hot water creating the Americano—a brew similar in strength to filter coffee, with some of the flavors of an espresso.

WHAT DO I NEED?

Equipment medium cup espresso machine

Ingredients ¹/₂-³/₄oz (16-20g) fine ground coffee



Warm the cup on top of your machine or by heating it with hot water. Using the technique on pp44–45, brew two shots/ $1^{1}/_{2}$ fl oz (50ml) of espresso into the cup.

TIP

An alternative method is to fill the cup with hot water first, leaving room for two shots, 14/2fl oz (50ml) of espresso. This helps to keep the crema floating on the surfacewhich some prefer for presentation. AMERICANOS RETAIN THE TEXTURE FROM THE OILS AND SOLUBLES OF THE ESPRESSO, BUT SOFTEN THE BREW INTENSITY

TIP

If you're not sure how strong to make it, serve the water in a pitcher on the side and fill the cup half to three-quarters full, tasting and adding more if desired-a great way to make a long cup of coffee using your espresso machine.



2 Carefully pour in boiling water, as desired, over the double espresso. There is no correct ratio, but try one part espresso to four parts water to start with, and add more if you prefer. 3 If you prefer, you could remove the crema with a spoon—some like this because it results in a cleaner, less bitter flavored coffee. You can remove the crema before or after adding the water both are valid methods.

SYRUPS AND FLAVORINGS

Great coffee has clear and complex flavors that purists would not blend or dilute with other ingredients. However, homemade or store-bought syrups and sauces often appeal to those who enjoy coffee as a dessertlike treat.

SIMPLE SYRUP

This clear sweetening agent is typically made with white sugar, but you can also try brown for a caramelized taste and color. To flavor, add approximately 1fl oz (30ml) of a fruit, herb, or nut extract, such as almond, banana, mint, or cherry.

Makes 16fl oz (500ml)

Method

In a large saucepan, bring **16fl oz (500ml)** water to a boil over medium heat.

2 Stir in **1lb 2oz (500g) white sugar** until it dissolves. Remove from the heat.

AVORI

Cool and transfer to a sterilized, airtight jar or bottle, and store in the fridge. It will keep for approximately two weeks. Add **1 tablespoon vodka, if desired** to double its shelf-life.

CMAI POWDER Combine 1 tablespoon each or equal parts of ground cardamom, allspice, cinnamon, cloves, ginger, black pepper, nutmeg, and licorice root. Store in an airtight box and use to flavor tea-coffee blends (see Chai coffee p184).

CARAMEL SAUCE

A homemade caramel sauce makes a rich alternative to sugar or simple syrup when you want some extra sweetness.

Makes 7fl oz (200ml)

Method

Heat **7oz (200g) sugar** and **2fl oz (60ml) water** in a heavy-bottomed pan over medium heat, stirring continuously.

2 Once it starts to bubble, stop stirring and simmer until it reaches 240°F (115°C). Remove from the heat and stir in **3 tablespoons unsalted butter** and 1/2 teaspoon sea salt.

3 Carefully add **4fl oz (120ml) heavy cream** while whisking. Stir until it is smooth, then add **1 teaspoon vanilla extract** and mix.

Cool and transfer to a sterilized, airtight jar or bottle, and store in the fridge. It will keep for approximately two to three weeks.

SYRUPS AND FLAVORINGS 163

STRAWBERRY SYRUP

Strawberry is a flavor often found in coffees, especially when they have been naturally processed. Enhance the flavor and add a natural and sweet berry note with a dash of homemade strawberry syrup.

Makes 1 pint (600ml)

Method

Place 1lb 2oz (500g) roughly chopped strawberries in a saucepan and pour over 16fl oz (500ml) water.

2 Bring to a boil and simmer for 25 minutes. Skim off any foam that gathers on the surface.

Remove from the heat and strain out the liquid without squeezing the strawberries.

Add **8oz (225g) sugar** to the liquid and bring to a boil while stirring. Simmer until the sugar dissolves, and skim off any foam that gathers on the surface.

5 Cool and transfer to a sterilized, airtight jar or bottle, and store in the fridge. It will keep for approximately two weeks. tablespoons of soft, lightly salted butter with 3½oz (100g) brown sugar, ¼ teaspoon each of ground allspice, nutmeg, cinnamon, cloves, and 2 teaspoons of rum essence in a bowl. Use as a topping on coffees (see p182).

CHOCOLATE SAUCE

Whether you are making a mocha or a hot chocolate, a homemade chocolate sauce is best. A dash of salt will counteract the bitterness of the cecoa powder and make the chocolate flavor more pronounced.

Makes 9fl oz (250ml)

Method

In a medium saucepan, mix 4 ¹/₂ oz (125g) cocoa powder, 5¹/₂ oz (150g) sugar, and pinch of salt, if desired together.

2 Add **9fl oz (250ml) water** and bring to a boil over medium heat, whisking continuously. Allow to simmer for 5 minutes while stirring.

Remove from the heat and mix in **1 teaspoon vanilla flavoring**.

Cool and transfer to a sterilized, airtight jar or bottle, and store in the fridge. It will keep for approximately two to three weeks.

ROMANO

🕞 GEAR ESPRESSO 🌔 DAIRY WITHOUT 🌡 TEMP HOT 💋 SERVES 1

It is easy to put a spin on the flavor of espresso without adding lots of ingredients. A simple lemon twist lends a fresh, citrusy undertone to the espresso-making this a potent classic.



demitasse cup

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) **of espresso** into the cup.

S Using **1 lemon**, make a twist of peel using a channel knife ar zester.

Rub the peel gently around the rim of the cup, and let it hang over the edge.

SERVE IT UP Sweeten to taste with demerara sugar, and serve immediately.

RED EYE

GEAR BREWER AND ESPRESSO 🌔 DAIRY WITHOUT 🌡 TEMP HOT 🎵 SERVES 1

If you can't quite get started in the mornings or need a caffeine-fueled kick to keep you going through the day, try the Red Eye, also lovingly nicknamed The Alarm Clock in gratitude of its invigorating caffeine content.



Brew ¹/40z (12g) medium-ground coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice. Pour 7fl oz (200ml) brewed coffee into the mug.

 Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) of espresso into a small pitcher.

SERVE IT UP Pour the espresso into the brewed coffee and serve immediately.

large mug

CUBANO

GEAR ESPRESSO 🗍 DAIRY WITHOUT 📕 TEMP HOT 💋 SERVES 1

Also called Cuban shot or Cafecito, this short and sweet coffee is a popular drink in Cuba. When brewed through the espresso machine, the sugar creates a smooth, sweet espresso shot. Use it as a base for numerous coffee cocktails.



demitasse cup

Mix 1/2-3/40z (14-18g) ground espresso coffee with 2 teaspoons demerara sugar, and place the mix in the portafilter of your espresso machine (see p44, steps 1–3).

Brew the coffee and sugar through the machine, until your cup 🚄 is about half full.

SERVE IT UP Serve immediately. If desired, use as base for alcoholic espresso-based cocktails (see pp205-17).

SASSY MOLASSES

GEAR ESPRESSO 👖 DAIRY WITHOUT 🜡 TEMP HOT 💋 SERVES 1

Sassafras is a flowering, fruit-bearing tree native to eastern North America and eastern Asia. The extract from its bark is typically used to flavor root beers. Choose a safrole-free version of sassafras for any recipe you work with.



demitasse cup

Spoon 1 teaspoon molasses into your demitasse cup.

Using the technique on pp44–45, brew L two shots/11/2fl oz (50ml) of espresso over the molasses.

SERVE IT UP Add 5 drops sassafras root extract, and serve immediately with a stirring spoon.



CAFFÈ TOUBA This spiced drink is gaining popularity in other cities both in and outside of Senegal.

HOT BLACK COFFEES 167

CAFFÈ TOUBA Senegalese coffee

GEAR BREWER A DAIRY WITHOUT

Caffè Touba is a spicy drink from Senegal, named after the holy city of Touba. Green coffee beans are roasted with peppers and spices, crushed in a mortar and pestle, and brewed through a cloth filter. It can be sweetened to taste.



Roast 2oz (60g) green coffee beans with 1 teaspoon selim pepper grains L and **1 teaspoon cloves** in a wok over medium heat. Stir continuously.

Once you have reached the desired roast (see pp66-67), remove \angle the beans from the wok and allow to cool. Stir.

• Crush the coffee beans and spices finely in a mortar and pestle. Place the coffee in a cloth filter (see p130) and mount it on a serving pitcher. Pour 16fl oz (500ml) boiling water.

SERVE IT UP Sweeten with sugar, divide between the mugs, and serve.

SCANDINAVIAN COFFEE

GEAR BREWER DAIRY WITHOUT

The practice of adding egg to the brewing process might seem unusual, but the proteins in the egg bind the sour and bitter components of coffee together. This results in a mild drink with all the body of a non-paper filtered brew.



large mug

Mix 2oz (60g) coarse-ground coffee, 1 egg, and 2 fl oz (60ml) cold water together to make a paste.

Pour 4¹/₄ cups (1 liter) water into a saucepan and bring to a boil. Add the paste, stirring gently.

Allow to boil for 3 minutes. Remove from the heat, add 3¹/₂fl oz (100ml) cold water, and let the grounds settle.

SERVE IT UP Divide the coffee between the mugs, pouring it through a fine mesh or cheesecloth to filter, and serve.

BUNA Ethiopian coffee ceremony

GEAR BREWER A DAIRY WITHOUT A TEMP HOT SERVES 10

Ethiopians drink buna during ceremonies with family and friends. Frankincense burns on the coals while coffee is roasted and served from a traditional "jebena." The grounds are brewed three times, resulting in three very different cups of coffee.



small howl

Roast 3¹/202 (100g) green coffee beans in a pan over medium heat. L Stir until they are dark and oily. In a mortar and pestle, crush them fine.

Pour 4¹/₄ quarts (1 liter) water into a jebena or saucepan over medium heat; bring to a boil. Add the ground coffee and stir. Steep for 5 minutes.

SERVE IT UP Pour out 10 bowls of the first brew, avoiding the grounds. Serve. Add another 41/4 quarts (1 liter) water to the pan, allow to boil, then divide among the bowls for the second brew. Finally, add another 41/4 quarts (1 liter) water, repeat the process, and serve the weakest brew.

I'M YOUR HUCKLEBERRY

GEAR BREWER 💧 DAIRY WITHOUT 📕 TEMP HOT 🖉 SERVES 1

Huckleberries, the state fruit of Idaho, look and taste like blueberries. A lot of apples grow in Idaho, and apple flavors often feature in the high-quality coffee served there. This tribute to the region incorporates apple in the steeping time.



Brew 9fl oz (250ml) coffee and a few apple slices in a filter pour-over (see p129) or other brewer. If you use a pour-over, place the apple on the coffee grounds and pour water over the top. With a French press (see p128), add the apple and coffee into the pot then pour over the water.

Pour the coffee into your mug, and add 1fl oz (25ml) huckleberry flavoring and 1 tablespoon apple flavoring.

SERVE IT UP Garnish with a lime twist and some apple slices. Sweeten with **simple syrup** (see pp162–63) and serve.

HOT BLACK COFFEES 169

CAFFÈ DE OLLA Mexican brew

GEAR BREWER 💧 DAIRY WITHOUT 🧂 TEMP HOT 🖉 SERVES 1

An olla-the traditional clay pot used to brew this Mexican drink-lends an earthy dimension to the brew. If you don't have an olla, a regular saucepan still allows the texture and oil from the beans to give the brew extra body.



earthenware mug

In a saucepan over medium heat, bring **16fl oz (500ml) water**. **2 cinnamon sticks**, and **1**³/40z (50g) piloncillo or dark brown sugar to a boil and simmer, stirring constantly until the sugar is dissolved.

Remove the pan from the heat, cover, and steep for 5 minutes. Add **1oz (30g) medium-ground coffee** and steep for another 5 minutes. Strain the mixture through a fine-wire mesh or cheesecloth into the mug.

SERVE IT UP Serve with a cinnamon stick-it looks good and imparts a more pronounced flavor.

TURKISH COFFEE

GEAR BREWER 💧 DAIRY WITHOUT 🐰 TEMP HOT 🖉 SERVES 4

You prepare Turkish coffee in an ibrik, cezve, or briki (see p137), which are small coffee pots with one long handle. Served in small bowls, the finished brew has a layer of foam on top and heavy sediment at the bottom.



small bowl

- Add 4fl oz (120ml) water and 2 tablespoons sugar into a Turkish L coffee pot or saucepan and bring to a boil over medium heat.
- Remove from the heat and add **4 tablespoons superfine-grind coffee**. Add cardamom, cinnamon, or nutmeg, if desired, stirring to dissolve.
- Brew the coffee as shown on p137. Spoon some of the foam into 4 bowls and carefully pour the coffee in so the foam does not dissipate.

SERVE IT UP Allow to settle for a couple of minutes, and serve. Take care to stop sipping when you reach the grounds at the bottom of the bowl.

MADHA ALAY coffee is inspired by the Marathi people of Maharashtra, western India.

MADHA ALAY

🛉 GEAR BREWER 🖞 DAIRY WITHOUT 🌡 TEMP HOT 🖞 SERVES 2

A concoction of ginger, honey, and lemon is the perfect remedy if you feel a cold coming on, and works very well with a splash of whisky. Using coffee prepared in a stove-top pot (see p133), it makes enough for two small glasses.



Using the technique on p133, brew **1oz (32g) coarse-ground coffee** in a 10fl oz (300ml) stove-top pot.

2 Spoon 1 tablespoon lavender honey into each glass, $^{1\!\!/\!\!\!2in}$ (1cm) piece chopped fresh ginger and peel from $^{1\!\!/\!\!2}$ lemon between the glasses.

Boil 9fl oz (250ml) water. Pour over the mixture, filling half of each glass. Allow to steep for a minute.

SERVE IT UP Pour over 2¹/₂fl oz (75ml) freshly brewed coffee into each glass. Stir to help dissolve the honey, and serve with a spoon.

KOPI JAHE Indonesian coffee

🛉 GEAR BREWER 🖞 DAIRY WITHOUT 🌡 TEMP HOT 🖉 SERVES 6

In Indonesia, the boiling of fresh ginger and sugar with ground coffee makes Kopi Jahe, an aromatic brew. The name means "coffee ginger" in Bahasa. Add spices such as cinnamon or cloves to the process for added flavor.



large cups

 $\label{eq:starsest} \begin{array}{c} Bring \mbox{ 6 tablespoons medium-ground coffee, 2 pints (1.5 liters) water,} \\ \mbox{ 3in (7.5cm) piece crushed fresh ginger, 31/2 oz (100g) palm sugar, and,} \\ \mbox{ if desired, 2 cinnamon sticks and/or 3 cloves to a boil in a saucepan over medium heat. Reduce to a simmer, stirring until the sugar dissolves.} \end{array}$

2 Remove from the heat when you have extracted the ginger to taste, about 5 minutes.

SERVE IT UP Divide between the six cups, straining through muslin, and serve immediately.

VANILLA WARMER

GEAR BREWER A DAIRY WITHOUT I TEMP HOT SERVES 2

When exploring flavors that complement coffee, very little beats the pure simplicity of vanilla. There are many forms of vanilla to play with, such as whole pods (used here), powdered, syrup, extract, and even alcoholic spirits.



large mug

Split open 2 vanilla pods. Add the seeds to a saucepan filled with 16fl oz (500ml) water over medium heat. Allow to boil, then remove from the heat, set the pods aside, and add loz (30g) coarse-ground coffee to the pan. Cover with a lid and allow to sit for 5 minutes.

Meanwhile, using a pastry brush, brush the insides of two mugs with 1 tablespoon vanilla flavoring.

SERVE IT UP Strain the coffee through a cheesecloth into the mugs, add the pods, and serve.

SYPHON SPICE

GEAR BREWER DAIRY WITHOUT I TEMP HOT SERVES 3

Syphon brewers (see p132) are perfect for infusing coffee grounds with spices, whether whole or ground. If you do add flavorings, it's best to use a paper or metal syphon filter, keeping the cloth filters purely for coffee preparation.



medium cup

Place 2 whole cloves and 3 whole allspice in the lower bulb of a regular 3-cup, or 12fl oz (360ml), syphon. Fill with 10fl oz (300ml) water.

Mix ¹/₄ teaspoon ground nutmeg with ¹/₂oz (15g) medium-ground coffee and add to the water once it has traveled to the upper glass. Allow the coffee and nutmeg to infuse for a minute before removing the flame. Watch as the coffee drains back down.

SERVE IT UP Pour into three cups, and serve.

HOT BLACK COFFEES • HOT WHITE COFFEES 173

CALCUTTA COFFEE

GEAR BREWER A DAIRY WITHOUT I TEMP HOT SERVES 4

In many parts of the world, coffee is substituted with ground chicory, the roasted and ground root of the herbaceous plant. Give this beverage an exotic spin by adding some ground mace and a few saffron threads.



Pour 4¹/4 guarts (1 liter) water into a saucepan. Add 1 teaspoon ground mace and a few saffron threads, and bring to a boil over medium heat.

Remove from the heat and add 1¹/2 oz (40g) medium-ground coffee and ³/40z (20g) medium-ground chicory. Cover and steep for 5 minutes.

SERVE IT UP Strain through a paper filter into a pitcher. Divide between the mugs, and serve.

KAISER MELANGE Austrian coffee

GEAR ESPRESSO A DAIRY WHIPPED CREAM TEMP HOT SERVES 1

This Austrian recipe uses egg yolk and coffee, a combination also popular in Scandinavia. Combined with honey the egg yolk gives this espresso a voluptuous texture, and the optional brandy will add another layer of flavor.



small glass

Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso into your glass. Add 1fl oz (25ml) brandy, if desired.

 In a small bowl, combine **1 egg yolk** with 4 1 teaspoon honey. Gently pour it over the espresso so it floats on the surface.

SERVE IT UP Top with 1 tablespoon whipped cream and serve immediately.



COCONUT-EGG COFFEE

GEAR BREWER 💧 DAIRY WITHOUT 🌡 TEMP HOT 🎵 SERVES 1

Inspired by Vietnamese egg coffee, this recipe replaces condensed milk with cream of coconut, lending another dimension to the taste and making the recipe suitable for those with a dairy intolerance.



medium glass

Brew 4fl oz (120ml) coffee using a phin (see p136). Alternatively, L brew it in a French press (see p128). Pour into your glass.

Whisk 1 egg yolk and 2 teaspoons cream of coconut together until fluffy. Gently spoon the mixture over the coffee, so it floats.

SERVE IT UP Sweeten to taste with **demerara sugar**, and serve with a spoon.

HONEY BLOSSOM

GEAR ESPRESSO 👖 DAIRY MILK 📗 TEMP HOT 🖉 SERVES 1

As honey bees feed on various flowers and herbs, the honey they produce takes on some of the properties from the nectar. Orange blossoms are one such source, and a water distillate highlights their flavor in this recipe.



medium glass

Steam 5fl oz (150ml) milk in a pitcher with 1 tablespoon orange blossom water to about 140-150°F (60-65°C), or until the pitcher is just too hot to touch (see pp48–50). Aim for about a $\frac{1}{2}$ in (1cm) layer of foam.

Spoon 1 tablespoon orange blossom honey into the bottom of the glass and pour the milk over.

Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso • into a pitcher. Pour the espresso into the glass, through the foam.

SERVE IT UP Serve with a spoon for stirring, to help dissolve the honey.

EGGNOG LATTE

GEAR ESPRESSO 💧 DAIRY MILK 📗 TEMP HOT 🎵 SERVES 1

This latte is decadent and rich, making the most of a holiday favorite. Storebought eggnog does not usually contain raw egg, but if you choose to make your own, beware of the risks of contamination and curdling when hot.



medium cup or glass

Gently heat 5fl oz (150ml) eggnog and 2¹/₂fl oz (75ml) milk in a saucepan over medium heat, stirring continuously. Do not allow to boil. Pour the warm eggnog mixture into the cup or glass.

Using the technique on pp44–45, brew two shots/1¹/2fl oz (50ml) d of espresso into a small pitcher, and pour it over the eggnog mixture.

SERVE IT UP Grate some fresh nutmeg over the top, and serve.

SOY EGGNOG LATTE

GEAR ESPRESSO 👖 DAIRY SOY MILK 📗 TEMP HOT 🕖 SERVES 1

Choose a good-quality brand of soy milk and soy eggnog for this dairy-free alternative to the classic eggnog latte. You can add brandy or bourbon to make it a grownup drink, or replace nutmeg with chocolate shavings.



large cup

Heat 3¹/₂fl oz (100ml) soy eggnog and 3¹/₂fl oz (100ml) soy milk in a saucepan over medium heat. Do not allow to boil.

Using the technique on pp44–45, brew two shots/1½fl oz (50ml) *into the cup.*

9 Add the warm eggnog-milk mixture into the cup over the espresso, and stir.

SERVE IT UP Add a dash of brandy, if desired, sprinkle with ground nutmeg, and serve.

MAPLE PECAN

GEAR ESPRESSO 💧 DAIRY MILK 📕 TEMP HOT 🖉 SERVES 1

Combining espresso with good-quality maple syrup and pecans makes this taste like liquid pecan pie. Serve some shortbread on the side, and enjoy it dunked in your coffee.





Steam 4fl oz (120ml) milk in a pitcher with 5 drops pecan flavoring to \bot about 140–150°F (60–65°C), or until the pitcher is just too hot to touch (see pp48-51). Aim for about a $\frac{1}{2}$ in (1.5cm) layer of nutty, sweet foam.

Pour 1 tablespoon maple syrup into the bottom of the glass and pour the milk over the top.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) • of espresso into a pitcher, and pour into the glass.

SERVE IT UP Decorate with **1 pecan nut**, and serve with a spoon to stir through the maple syrup.

CHERRY ALMOND LATTE

GEAR ESPRESSO 💧 DAIRY ALMOND MILK 📕 TEMP HOT 🖉 SERVES 1

For a flavored caffè latte that is also dairy free, try steaming almond milk, an alternative that suits those with a dairy intolerance. Here, the almond milk lends a nutty flavor and is complemented by the sweet cherry extract.



Steam 5fl oz (150ml) almond milk with 1fl oz (25ml) cherry flavoring to ▲ about 140–150°F (60–65°C), or until the pitcher is just too hot to touch (see pp48-51). Pour into the cup.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) f espresso into a small pitcher and pour over the top of the milk.

SERVE IT UP Serve with a stirring spoon.

large cup

ALMOND FIG LATTE

GEAR BREWER 💧 DAIRY MILK 💄 TEMP HOT 🖉 SERVES 1

Figs are used as a flavor enhancer in many coffees around the world, but rarely as an ingredient in a beverage. It is combined here with almond essence, which gives this variation of a caffè latte real depth of flavor.



large cup

Steam 9fl oz (250ml) milk with 1 teaspoon almond essence and **5 drops fig flavoring** in a pitcher to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch (see pp48-51). Pour into the cup.

Brew 3¹/₂fl oz (100ml) coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice. Brew the coffee double-strength, if you prefer a more pronounced coffee taste.

SERVE IT UP Pour the brewed coffee over the flavored steamed milk. and serve.

MOCHI AFFOGATO

GEAR ESPRESSO 💧 DAIRY COCONUT MILK ICE CREAM 📕 TEMP HOT 🖉 SERVES 1



A popular Japanese dessert, Mochi ice cream is a ball of cold ice cream covered in a smooth, dough-like rice paste. This recipe uses a Mochi made with coconut milk, making it suitable for those with a dairy intolerance.



Place 1 black sesame-flavored coconut milk mochi in vour glass.

Using the technique on pp44-45, brew two shots/1¹/2fl oz (50ml) *into* a small pitcher.

• Mix 1½fl oz (50ml) cream of coconut with the espresso and pour it over the mochi.

SERVE IT UP Serve immediately with a spoon.

AFFOGATO

🕞 GEAR ESPRESSO 💧 DAIRY ICE CREAM 📕 TEMP HOT AND COLD 💋 SERVES 1

This is one of the simplest of all espresso-based treats. A scoop of ice cream drowned in strong espresso makes for a perfect end to any meal. Choose eggfree vanilla ice cream for a light version, or add flavored ice cream for variety.



small glass

Spoon 1 scoop of vanilla ice cream into your glass. It looks most attractive if you can form a full ball of ice cream using a scoop.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) *—* of espresso and pour it over the ice cream.

SERVE IT UP Serve with a spoon to eat as a dessert, or allow to melt while sipping.

ALMOND AFFOGATO

🕞 GEAR ESPRESSO 💧 DAIRY ALMOND MILK 🦺 TEMP HOT AND COLD 🖉 SERVES 1

Almond milk is a great alternative if you are lactose-intolerant. Made of ground almonds and water and sweetened to taste, almond milk and ice cream are easy to make at home. Enjoy the fresh flavors they can bring to your coffee.



Pour 1fl oz (25ml) almond milk into a small glass. Top with 1 scoop almond milk ice cream.

Using the technique on pp44–45, brew one shot/1fl oz (25ml) d of espresso into a small pitcher. Pour it over the ice cream.

SERVE IT UP Sprinkle over ¹/₂ teaspoon cinnamon and 1 teaspoon chopped almonds, and serve.

small glass
ALMOND AFFOGATO is a delicious dairy-free coffee recipe. If you are allergic, try rice milk with rice milk ice cream.

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YUANYANG Hong Kong coffee

dear Brewer 🚺 DAIRY CONDENSED MILK 🜡 TEMP HOT 🖉 SERVES 4

Most people would not think to mix tea and coffee together, but this creamy mix with black tea has delicious results. Originally served by street vendors, yuanyang is now a favorite in many Hong Kong restaurants.



Combine **2 tablespoons black tea leaves** and **9fl oz (250ml) water** in a large $4^{1/4}$ quarts (1 liter) saucepan, and simmer for 2 minutes.

2 Remove the saucepan from the heat, and discard the tea leaves. Stir in **9fl oz (250ml) condensed milk**, return to the heat, and simmer for another 2 minutes. Remove from the heat.

Using the technique on p128, brew 16fl oz (500ml) coffee in a French
 press and pour into the saucepan. Mix thoroughly with a wooden spoon.

SERVE IT UP Pour into 4 glasses or mugs, sweeten with sugar, and serve.

STRAWBERRY LACE

🛉 GEAR BREWER 🌔 DAIRY MILK 🌡 TEMP HOT 🖉 SERVES 1

Many of us enjoy strawberries dipped in melted dark chocolate, and many more enjoy strawberries and cream. Substituting dark chocolate for white in this recipe bridges the two desserts and adds a lovely creaminess.



Brew **5fl oz (150ml) coffee** in a French press (see p128), AeroPress (see p131), or brewer of your choice.

2 Heat **5fl oz (150ml) milk** in a saucepan over medium heat, but do not allow to boil.

Pour **2 tablespoons white chocolate** and **1 tablespoon strawberry flavoring** (see pp162–63) into the bottom of the bowl. Add the coffee and milk.

SERVE IT UP Serve with a spoon, to stir and dissolve the chocolate.

BANANA SPILT

🛉 GEAR BREWER 🌔 DAIRY MILK 🌡 TEMP HOT 🖉 SERVES 1

If you like classic banana-based desserts like banoffee pie or banana split, you'll enjoy this drink because it emulates some of their iconic flavors. Serve in a 10fl oz (300ml) welled coupette glass for a beautiful presentation.



coupette glass

Pour **1 teaspoon condensed milk** into the well of the coupette glass. Add **1 teaspoon caramel sauce** over the top.

Add **5 drops banana flavoring** (see pp162-63) to the glass. Brew **3¹/₂fl oz (100ml) coffee** in a French press (see p128), AeroPress (see p131), or brewer of your choice.

9 Heat **3**¹/₂**fl oz (100ml) milk** in a pan over medium heat, but don't allow to boil.

SERVE IT UP Pour the coffee and milk into the glass, and serve with a spoon.

CA PHE SUA NONG Vietnamese coffee

🛉 GEAR BREWER 🌔 DAIRY CONDENSED MILK 📕 TEMP HOT 🖉 SERVES 1

You don't have to use a Vietnamese phin coffee dripper to make Ca phe sua nong, but it's a clean and easy-to-use brewing method that also lends itself well to black coffee. Here, condensed milk makes for a sweet and creamy drink.



small mug

Pour **2 tablespoons condensed milk** into the bottom of the mug. Place **2 tablespoons medium-ground coffee** at the bottom of a phin (see p136) or filter pour-over (see p129). Shake to distribute and screw the top filter on.

2 Bring **4fl oz (120ml) water** to a boil and pour about a third of it over the filter. Allow the coffee to swell for a minute. Loosen the filter a couple of turns and pour the rest of the water on. The water should drip through in about 5 minutes.

SERVE IT UP Serve with a spoon, to stir and dissolve the condensed milk.

POT OF GOLD

🛉 GEAR BREWER 🌔 DAIRY WITHOUT 🎚 TEMP HOT 🖉 SERVES 1

If you are lactose intolerant, there are plenty of lactose-free milks to explore, including nut and seed milks. This recipe includes raw egg, which adds a wonderful creaminess. The glowing gold custard that decorates the drink inspired the name.



Using the technique on p133, brew 3¹/₂fl oz (100ml) strong stove-top coffee.

• To make the eggy custard, separate **1 egg** and discard the white. A Mix the yolk and **2 tablespoons lactose-free custard** in a small bowl. Add 1 teaspoon of the coffee and blend it in.

SERVE IT UP Pour the coffee into the mug and top with the eggy custard. Top up with **non-dairy whipped cream**, sprinkle over **vanilla** sugar. if desired. and serve.

GINGERBREAD GROG

🛉 GEAR BREWER 🍴 DAIRY HEAVY CREAM 📕 TEMP HOT 🏼 🏹 SERVES 6

Beautifully fragrant and deliciously warming on a cold night, this drink may take a few minutes to prepare, but it will be worth the wait. Perfect after a good meal, the richness of the butter and sugar makes it a great alternative to dessert.



large mug

Place an equal amount of sliced peel from 1 lemon and 1 orange ____ in the mugs.

■ Brew 6¹/₃ quarts (1.5 liters) coffee using a French press (see p128) up or electric-filter brew (see p135).

Pour into a pitcher and add 9fl oz (250ml) heavy cream. Pour the coffee-cream mix over the citrus peels.

SERVE IT UP Divide the gingerbread butter (see pp162-63) between the mugs, about 1 teaspoon in each. Allow to melt, and serve.

GINGERBREAD GROG As the flavored butter melts and the spices dissolve, little pearls form on the surface.

CHAI COFFEE

GEAR BREWER 💧 DAIRY MILK 📕 TEMP HOT 🖉 SERVES 1

While you can buy ready-mixed Indian chai tea flavorings, making your own is easy (as shown on pp162–63). You can adjust the spice mix to suit your taste, and it keeps for up to 1 month in a sealed container.



large mug

Add **1 teaspoon chai tea flavoring** (see pp162-63) to a small saucepan filled with 3¹/₂fl oz (100ml) water. Add 1 teaspoon loose-leaf black tea and bring the mix to a boil. Allow to simmer for 5 minutes.

Add 3¹/2fl oz (100ml) milk and allow it to heat up, but not boil. Meanwhile, brew 3¹/₂fl oz (100ml) coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice. Strain out the tea leaves and spice mixture.

SERVE IT UP Mix the milky tea with an equal amount of coffee in the mug, sweeten to taste with **sugar**, and serve.

CHOC-MINT LICORICE

🕞 GEAR ESPRESSO 🦷 DAIRY MILK 📕 TEMP HOT 🖉 SERVES 1

The slightly savory quality of licorice, dark chocolate bitterness, and freshness of mint make this a grownup drink. Add less milk to ration it down to a more intensely flavored drink.



medium glass

Add 1-2 chocolate pieces and 1 tablespoon sweet licorice sauce to the bottom of the glass.

Steam 5fl oz (150ml) milk in a pitcher with 5-6 drops mint flavoring to about 140–150°F (60–65°C), or until the pitcher is just too hot to touch (see pp48-51). Pour into the glass.

Using the technique on pp44-45, brew two shots/1¹/2fl oz (50ml) • of espresso into a small pitcher.

SERVE IT UP Pour the espresso through the milk foam, and serve.

MAZAGRAN Portuguese iced coffee

GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

A Portuguese variation of cold coffee, Mazagran is made with strong coffee or espresso. It is served over ice with a twist of lemon, slightly sweetened, and occasionally spiked with rum.



small glass

Place 3-4 ice cubes and a wedge of lemon into the glass.

 Using the technique on pp44–45, brew **two shots/** $1^{1/2}$ fl oz (50ml) of espresso over the ice.

SERVE IT UP Add sugar syrup, if desired (see pp162-63) to taste, and serve immediately.

ICE ESPRESSO

GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

The guickest way to chill an espresso is to pour it over ice, but if you shake it with ice, you create an attractive foam. Experiment with different types of sugar-white, demerara, or muscovado-to provide contrasting flavors.



small glass

Using the technique on pp44-45, brew two shots/1½fl oz (50ml) of espresso into a small cup, and dissolve sugar into it, if desired.

Pour the espresso into a cocktail shaker filled with **ice cubes** and shake vigorously.

SERVE IT UP Fill the glass with a few ice cubes, strain the coffee over the top, and serve.



SPARKLING ESPRESSO

🕞 GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

Adding sparkling water to an espresso might seem an unusual practice, but the resulting effervescence is really guite refreshing. Beware that combining the two very abruptly might lead to an eruption of foam.



small glass

Place the glass in the freezer for an hour or so before you wish to serve.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) **of espresso** into a small pitcher. Fill the glass with **ice cubes** and pour the espresso over.

SERVE IT UP Gently top with sparkling water, taking care not to let the foam overflow, and serve.

SNOW WHITE

🕞 GEAR ESPRESSO 💧 DAIRY WITHOUT 📗 TEMP COLD 🖉 SERVES 1

This chilled coffee combines the unusual flavors of strawberry and licorice and is made with a lot of ice. The name of the recipe comes from the contrasting colors of red and black, which are reminiscent of Snow White's lips and hair.



medium tumbler

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a pitcher. Dissolve **1 teaspoon white sugar** into it. Add the espresso and **ice cubes** to a cocktail shaker and shake vigorously.

Fill the tumbler with 1 tablespoon licorice flavoring and 1 tablespoon strawberry flavoring and top with ice cubes.

Strain the espresso over. For a creamier flavor, add 1¹/₂fl oz (50ml) **cold milk, if desired** before your pour the espresso over the top.

SERVE IT UP Serve with a spoon, to stir all the ingredients together.

SNOW WHITE You could try crushed ice instead of ice cubes. It keeps the drink cooler for longer—but will dilute quickly.

ESPRESSO COLA

GEAR ESPRESSO 💧 DAIRY WITHOUT 📗 TEMP COLD 🖉 SERVES 1

A cold cola, flavored with a shot of espresso, will keep you buzzing for a couple of hours. The two components can create a lot of froth when combined over ice, but keeping ingredients and glasses very cold will help.



of espresso into a small pitcher and place it in the fridge until cold. Add ice cubes to your glass and pour 5fl oz (150ml) cola over the top. Allow the foam to subside, then gently pour over the cold espresso.

Using the technique on pp44-45, brew one shot/1fl oz (25ml)

SERVE IT UP Sweeten to taste with simple syrup (see pp162-63), and serve.

RYAN DANDELION

GEAR BREWER A DAIRY WITHOUT I TEMP COLD SERVES 4

Roasted and ground dandelion root is a common alternative to coffee, as is chicory, barley, and sugar beet. Often used during times of rationing, these substitutes may not give you the caffeine hit, but can still be tasty and comforting.

dandelion root-brewed coffee



medium glass

Using the technique on p134, prepare cold-brewed coffee using a cold dripper. Brew 41/4 quarts (1 liter) water, 2 tablespoons medium-ground coffee, 2 tablespoons roasted dandelion root, and 2 tablespoons roasted sugar beet or chicory root together.

Fill a cocktail shaker with 9fl oz (250ml) coffee and ice per serving and shake well.

SERVE IT UP Pour into the glasses, garnish with fresh dandelion flowers, and serve immediately.

COLD BLACK COFFEES 189

ICED CASCARA COFFEE

GEAR BREWER A DAIRY WITHOUT I TEMP COLD SERVES 1

Coffee usually comes from a roasted seed, but sometimes other parts of the coffee plant can be used to prepare traditional beverages like kuti, hoja, and gishr. Here, hibiscus-like cascara (dried coffee cherries) brighten up a cold brew.



medium glass

To prepare cascara ice cubes, make tea from dried cascara. Pour the infusion into an ice-cube trav and transfer to the freezer. Allow to freeze. Prepare coffee ice cubes the same way, by filling an ice-cube tray with brewed coffee.

Using the technique on p134, prepare 5fl oz (150ml) cold-brewed Coffee using a cold dripper.

Add the cascara ice cubes and coffee ice cubes to a cocktail shaker. Pour over the cold coffee, add 1 teaspoon dried cascara, and shake.

SERVE IT UP Pour into the glass, and serve immediately.

ROOT OF ALL GOOD

GEAR BREWER A DAIRY WITHOUT I TEMP COLD SERVES 1

Root beer and coffee are especially pleasing when combined in a cold beverage. Instead of adding dairy, this recipe uses cream of coconut for texture and sweetness, which complements the root beer.



Using the technique on p134, prepare 5fl oz (150ml) cold-brewed coffee using a cold dripper.

Add 11/2fl oz (50ml) root beer flavoring and / 1fl oz (50ml) cream of coconut to the glass and mix well.

SERVE IT UP Top with crushed ice, pour the cold coffee over, and serve with a straw.



CREAM COFFEE POP

🛉 GEAR BREWER 🌔 DAIRY WITHOUT 🎚 TEMP COLD 🖉 SERVES 1

Cream sodas come by many names, and in many versions and colors around the world. They can have different fruit flavors but usually taste of vanilla or sweetened milk.





medium glass

Lusing the technique on p134, prepare **3½fl oz** (100ml) ice-cold brewed coffee using a cold dripper. Place the glass in the freezer for an hour or so.

2 Fill the frozen glass with **coffee ice cubes** (p189, ciced cascara coffee, step 1) and pour over the coffee.

Slowly pour in 3¹/₂fl oz (100ml) ice-cold cream soda.
 Take care not to let the foam overflow.

SERVE IT UP Serve immediately.

CARIBBEAN PUNCH

🛉 GEAR BREWER 🍈 DAIRY WITHOUT 🌡 TEMP COLD 🖉 SERVES 1

Angostura bitters and the warm flavors of rum are brightened by lemon and sparkling water in this drink. To make rum ice cubes, add a little rum flavoring to water before pouring into an ice-cube tray and freezing.



medium glass

Using the technique on p134, prepare **5fl oz (150ml) cold-brewed coffee** using a cold dripper.

 $2\,$ Fill the glass with ${\it rum-flavored}$ ice cubes and pour the cold coffee $2\,$ over the top.

In a jug, mix 2 teaspoons lemon juice, 5 drops angostura bitters,
 1fl oz (25ml) rum flavoring, and 1 tablespoon molasses. Pour over the coffee and ice cubes.

SERVE IT UP Top up with 11/2fl oz (50ml) sparkling soda water, and serve.

COLD BLACK COFFEES • COLD WHITE COFFEES 191

COFFEE COLA FLOAT

🕞 GEAR ESPRESSO ڵ DAIRY SOY ICE CREAM 🛛 🜡 TEMP COLD 🖉 SERVES 1

There are many good soy ice creams on the market, so if you cannot tolerate dairy, you can still experience the classic cola float. Be careful when you combine the cola and coffee, as it can get very foamy.



medium glass

Place **1 scoop soy ice cream** in the bottom of your serving glass.

2 Using the technique on pp44-45, brew **one shot/1fl oz** (25ml) of espresso. Pour it over the ice cream and carefully top up with **cola**.

SERVE IT UP Serve with a spoon.

ICE LATTE

🔀 GEAR ESPRESSO 🎁 DAIRY MILK 🎚 TEMP COLD 🖉 SERVES 1

Refreshing on hot days, the ice latte can be shaken or stirred, sweetened or flavored, and tailored to the strength you prefer. If you enjoy the more pronounced coffee taste of a cappuccino, use only half the milk in this recipe.



medium glass

Fill half the glass with **ice cubes**. Using the technique on pp44–45, brew **1 shot/1fl oz (25ml) of espresso** into a pitcher and pour it over the top.

SERVE IT UP Top up with **6fl oz (180ml) milk**, and sweeten to taste with **simple syrup** (see pp162–63).

ALTERNATIVELY Brew **1** shot/1fl oz (25ml) of espresso, add it to ice cubes in a cocktail shaker, and shake well. Fill half the serving glass with ice cubes and add **6fl oz (180ml) milk** until the glass is three-quarters full. Strain the chilled espresso into the glass, and serve.

HAZELNUT ICE LATTE

DAIRY HAZELNUT MILK 📕 TEMP COLD 💋 SERVES 1 GEAR ESPRESSO

For a more complex dairy-free alternative, mix various nut and seed milks together and take the opportunity to play with textures as well. Sweetening with molasses instead of sugar adds another level of flavor.



medium glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) I of espresso into a small pitcher and dissolve 2 teaspoons molasses into it. Add to a cocktail shaker filled with **ice cubes** and shake well.

Spoon 2 tablespoons soy custard into the bottom of the glass and add a few ice cubes. Top up with **5fl oz (150ml) hazelnut milk**.

SERVE IT UP Strain the espresso over the top, and serve with a spoon.

RICE MILK ICE LATTE

GEAR ESPRESSO 💧 DAIRY RICE MILK 📕 TEMP COLD 🖉 SERVES 1

One of the more naturally sweet alternatives to cow's milk, rice milk does not froth well when steamed, but that makes it more suitable for iced coffees. Nut extracts go very well with rice milk, but experiment with berries as well.



medium glass

Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso into a small pitcher. Allow to cool.

Mix the espresso, 6fl oz (180ml) rice milk, and 1fl oz (25ml) praline flavoring in a cocktail shaker. Add some coffee ice cubes (see p189, iced cascara coffee, step 1) and shake vigorously.

SERVE IT UP Double-strain into the glass and serve immediately with a straw.

COLD WHITE COFFEES 193

APRICOT STAR

GEAR ESPRESSO 💧 DAIRY HEAVY CREAM 📕 TEMP COLD 🛛 SERVES 1

Combining tea and coffee works well with iced drinks, especially when enhanced with milk and other flavors. Use a single shot of espresso for a milder taste.



cold espresso heavy cream brewed black tea orange blossom water	
orange blossom water	

medium glass

Pour 5fl oz (150ml) boiling water into a teapot. Steep 1/4oz (10g) black tea leaves with a star anise. Strain and chill.

Fill half the glass with ice cubes. Add 2 teaspoons orange **blossom water** and **1 teaspoon apricot flavoring**. Pour the cold tea over the ice, and float heavy cream on top.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) of espresso into a small pitcher. Pour it into a cocktail shaker filled with ice cubes. and shake well until cold.

SERVE IT UP Strain the cold espresso into the glass and serve.

COCOMON



A small but sweet beverage, cocomon uses the delicious pairing of coconut and cinnamon to make you relish every last drop. You could replace the milk with heavy cream for a thicker texture.



medium glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) **of espresso** into a small pitcher, pour it over some **ice cubes** in a cocktail shaker, and shake well.

Fill half a glass with ice cubes and add 4fl oz (120ml) milk until the glass is three-quarters full. Add **1 teaspoon each coconut and cinnamon** flavorings. Strain the chilled espresso into the glass.

SERVE IT UP Garnish with coconut shavings, sweeten to taste with **simple syrup** (see pp162–63), and serve.

ICE MOCHA Pure refreshment on a summer's day, this drink is the perfect post-barbecue pick-me-up.

ICE MOCHA

🕞 GEAR ESPRESSO 🍈 DAIRY MILK 👢 TEMP COLD 🕖 SERVES 1

A popular variation of the ice latte, the ice mocha requires chocolate sauce, which imparts a rich, sweet taste. If you would like the coffee flavor to come through more intensely, use less milk or reduce the amount of chocolate sauce.



medium glass

Pour 2 tablespoons light or dark chocolate sauce (see pp162-63) ⊥ into the glass. Fill with ice cubes and pour over 6fl oz (180ml) milk.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) d of espresso into a pitcher and pour it over the milk.

SERVE IT UP Serve immediately with a straw to help stir and dissolve the chocolate sauce.

BREATH OF FRESH AIR

GEAR ESPRESSO 💧 DAIRY MILK 📕 TEMP COLD 🕖 SERVES 1

Mint is a refreshing flavor pairing for coffee, and when rounded off with vanilla, it makes a beverage that is perfect for a summer's day. Choose a milk that is lower in fat for a more refined, elegant taste.



Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a pitcher. Fill about half the glass with ice cubes and carefully pour the espresso over it.

Add 1 teaspoon mint flavoring and 5-6 drops vanilla essence. Top up with 5fl oz (150ml) milk.

SERVE IT UP Garnish with **mint leaves**, and serve with a spoon, to stir.

medium glass

CA PHE SUA DA Vietnamese iced coffee

GEAR BREWER DAIRY CONDENSED MILK 📕 TEMP COLD 🖉 SERVES 1

If you don't have a Vietnamese phin coffee dripper, use a French press (see p128) or a stove-top moka pot (see p133). Prepared in much the same way as the Ca phe sua nong (see p181), the iced version is more diluted, but still sweet and creamy.



medium glass

Pour 2 tablespoons condensed milk into the bottom of the glass and fill with ice cubes.

Remove the filter from a phin (see p136) and pour 2 tablespoons medium-ground coffee in. Shake to distribute the grounds and screw the filter back on.

Place the phin on top of the glass. Bring 4fl oz (120ml) water • to a boil and pour about a quarter of it over the filter. Using the phin, brew the coffee following the directions on p136.

SERVE IT UP Stir to dissolve the condensed milk, and serve.

CHERRY BERRY



Many coffee-producing regions, such as Kenya and some regions of Colombia, produce coffee beans that feature fruit-like flavor characteristics. These often lend themselves very well to being prepared using the cold-brewing technique.

whipped cream	
double-strength cold-brewed coffee	
milk	-
ice cubes	De ca po da
cranberry flavoring cherry flavoring	

tall glass

Using the technique on p134, brew 7fl oz (200ml) cold coffee double-strength over ice cubes.

Pour 1fl oz (25ml) cherry flavoring and 1 tablespoon cranberry flavoring into the bottom of the glass and fill it half full with ice cubes. Carefully pour over 11/2fl oz (50ml) milk and then the coffee.

SERVE IT UP Top with 1 tablespoon whipped cream, garnish with a fresh cherry, and serve with a spoon.

PISTACHIO BUTTER

GEAR BREWER 🚺 DAIRY MILK 📕 TEMP COLD 🖉 SERVES 1

The taste of peanuts in coffee is sometimes associated with low quality, but it is not the case for all varieties. Try a nutty coffee for this-the strawberry and pistachio flavorings evoke the flavor combination of peanut butter and jelly.



Using the technique on p134, brew 11/2fl oz (50ml) double-strength coffee over ice cubes.

Add ice cubes, 4fl oz (120ml) milk, 1 tablespoon pistachio flavoring, and 1 tablespoon strawberry flavoring to a cocktail shaker and shake well.

Pour into the glass and add some more ice cubes. Carefully pour • the coffee over the top.

SERVE IT UP Garnish with a fresh strawberry on the rim of the glass, and serve.

ICE MAPLE LATTE



For a simple twist on an iced café au lait, mix in maple syrup. This not only adds sweetness, but also highlights how the melting coffee ice cubes steadily intensify the coffee flavor of this beverage.



Using the technique on p134, prepare 4fl oz (120ml) cold-brewed **coffee** using a cold dripper.

Add **coffee ice cubes** (see iced cascara coffee, step 1, p189) to your glass. Pour over the coffee and **4fl oz (120ml) milk**.

SERVE IT UP Drizzle with maple syrup to taste over the floating ice cubes, and serve with a stirrer.

medium glass

MILK AND HONEY Frozen milk cubes or coffee cubes prevent the coffee drink from diluting too much.

MILK AND HONEY

👘 GEAR BREWER 🚺 DAIRY MILK 🌡 TEMP COLD 💋 SERVES 1

Honey is a flavorsome natural sweetener and works well in both hot and cold drinks. In this recipe, you can add it to the coffee before it is chilled, or stir in just before serving. To make milk cubes, simply freeze milk in an ice-cube tray.



tall glass

Using the technique on p134, brew **3½fl oz (100ml)** cold-brewed coffee double-strength over ice cubes.

2 Place 3-4 frozen milk cubes into the glass and add $^{1}\!/_{2}$ teaspoon vanilla extract, 1 tablespoon tupelo honey, and $^{1}\!/_{4}$ teaspoon ground cinnamon.

SERVE IT UP Pour **3¹/₂fl oz (100ml) milk** followed by the coffee into the glass, and serve with a stirring spoon.

BLENDED ICE COFFEE

🔀 GEAR ESPRESSO 🌔 DAIRY MILK 🎚 TEMP COLD 🛽 灯 SERVES 1

Like a coffee milkshake, this creamy, smooth concoction can be enjoyed on its own or flavored with any number of ingredients. If you prefer a lighter texture, replace the cream with regular milk or use low-fat milk.



Using the technique on pp44-45, brew **one shot/1fl oz (25ml) of espresso** into a small pitcher.

2 Pour the espresso, **5-6 ice cubes**, **1fl oz (30ml) cream**, and **5fl oz (150ml) milk** into a blender, and mix until smooth.

SERVE IT UP Sweeten to taste with **simple syrup** (see pp162–63), and serve in the glass with a straw.

medium glass

FRAPPÉ MOCHA

GEAR ESPRESSO 💧 DAIRY MILK 🌡 TEMP COLD 🖉 SERVES 1

For a twist on blended ice coffee, add some chocolate sauce and increase the amount of espresso to balance out the flavors. Try a milk chocolate sauce for a milder taste, or go for a white chocolate sauce.



medium glass

Using the technique on pp44-45, brew two shots/ 11/2fl oz (50ml) of espresso into a small pitcher.

Pour the espresso, 6fl oz (180ml) milk, 2 tablespoons chocolate sauce, and **5-6 ice cubes** into a blender, and mix until smooth. Sweeten to taste with **simple syrup** (see pp162-63).

SERVE IT UP Pour into the glass, top with 1 tablespoon whipped cream, and serve with a straw.

CHOC–MINT FRAPPÉ

GEAR ESPRESSO A DAIRY MILK TEMP COLD SERVES 1

Like an After Eight dipped in coffee, this cool drink is a great post-dinner treat: rich and smooth with the beautiful pairing of mint and chocolate underpinned by the espresso. Sweeten to taste, and enjoy with a chocolate mint.



medium glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a small pitcher.

Pour the espresso, 5-6 ice cubes, 6fl oz (180ml) milk, 1fl oz (25ml) into a blender, and mix until smooth. Sweeten to taste with simple syrup (see pp162-63).

SERVE IT UP Pour into the glass, garnish with chocolate shavings and **mint leaves**, and serve. For a pretty serving vessel, try a coupette glass.

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HAZELNUT FRAPPÉ

GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1



Hazelnut milk is a dairy-free option that matches well with coffee and is easy to make at home. With the addition of vanilla, the flavors blend together perfectly.

hazelnut milk, vanilla, and espresso blend

shots/11/2fl oz (50ml) of espresso into a small pitcher. Pour the espresso, 7fl oz (200ml) hazelnut milk,

5-6 ice cubes, and **1 teaspoon vanilla sugar** into a blender, and mix until smooth.

Using the technique on pp44-45, brew two

SERVE IT UP Pour into the glass, and serve with a straw.

HORCHATA FRAPPÉ

GEAR ESPRESSO A DAIRY WITHOUT A TEMP COLD SERVES 4

Horchata is a Latin American drink made from almonds, sesame seeds, tigernuts, or rice. Vanilla and cinnamon are common flavorings. You can make your own or buy it ready-made.

rice milk. horchata. and brewed coffee blend



medium glass

small wine glass

Using the technique on p131, brew 31/2fl oz (100ml) strong coffee using an AeroPress.

Pour the coffee, 2 tablespoons horchata powder, 3¹/₂fl oz (100ml) rice milk, seeds from 2 vanilla pods, ¹/₂ teaspoon ground cinnamon, and 10-15 ice cubes into a blender, and mix until smooth.

SERVE IT UP Add simple syrup to taste (see pp162-63), garnish with vanilla pods or cinnamon sticks, and serve.

COFFEE LASSI

🕞 GEAR ESPRESSO 💧 DAIRY YOGURT 📗 TEMP COLD 🕖 SERVES 1

Yogurt works well as an alternative to milk, imparting a fresh taste and adding texture to a blended beverage on par with cream or ice cream. A scoop of frozen yogurt can be substituted for the yogurt in this recipe.



tall glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a small pitcher.

Place 5-6 ice cubes in a blender, and pour the espresso over the top. Allow to cool.

Add 5fl oz (150ml) yogurt, 1 teaspoon vanilla flavoring, 1 teaspoon • honey, and **2 tablespoons chocolate sauce** to the blender. Mix till smooth.

SERVE IT UP Sweeten to taste with additional honey, and serve in the glass with a straw.

LOVE LICORICE

GEAR ESPRESSO 👖 DAIRY MILK 📗 TEMP COLD 🕖 SERVES 1

If you like the unique flavor of licorice, you'll enjoy this drink. You can find blendable licorice in powder, syrup, or sauce form. Experiment with the intensity and try a salty licorice for some extra bite.



medium glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a small pitcher.

Pour the espresso, 6fl oz (180ml) milk, 1 teaspoon licorice powder, and **5-6 ice cubes** into a blender and mix until smooth.

Sweeten to taste with simple syrup (see pp162-63), and pour into the glass.

SERVE IT UP Top with 1 tablespoon whipped cream, sprinkle with some more **licorice powder**, garnish with a **star anise**, and serve with a straw.

ICE CREAM RUM RAISIN

GEAR ESPRESSO 💧 DAIRY MILK 📕 TEMP COLD 🧷 SERVES 1

Rum and raisin is a classic flavor pairing most commonly enjoyed in ice cream. The two also work really well with coffee, as both flavors are often used to describe the flavor profile of naturally processed beans.



Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a small pitcher.

Pour the espresso, 4fl oz (120ml) milk, 1fl oz (25ml) rum-raisin flavoring, and 1 scoop vanilla ice cream into a blender. Mix until smooth.

Sweeten to taste with simple syrup (see pp162-63), and pour into the glass.

SERVE IT UP Top with whipped cream, if desired, and serve with a straw.

VOLUPTUOUS VANILLA

🕞 GEAR ESPRESSO 💧 DAIRY MILK 🗍 TEMP COLD 🕖 SERVES 1

Making a blended beverage with condensed milk adds a certain voluptuous texture that will make it feel like you're drinking liquid silk. If you prefer it less sweet, you could try evaporated milk or half-and-half instead.



Using the technique on pp44-45, brew one shot/1fl oz (25ml) of espresso into a small pitcher.

Pour the espresso, 3¹/₂fl oz (100ml) milk, 2 tablespoons condensed milk, 1 teaspoon vanilla extract, and 5-6 ice cubes into a blender and mix until smooth.

SERVE IT UP Pour into the glass, and serve immediately.

small glass

MALTED MIX

GEAR ESPRESSO 💧 DAIRY MILK 📕 TEMP COLD 🕖 SERVES 1

Nondiastatic malt powder is used in drinks as a sweetening agent. Use it here for sweet flavor and a thick, comforting texture. You could use malted milk powder instead-chocolate malt works, too.



beer mug

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) **of espresso** in a small pitcher.

Pour the espresso, 1 small scoop chocolate ice cream, 5–6 ice cubes, **5fl oz (150ml) milk**, and **2 tablespoons malt powder** into a blender, and mix until smooth.

SERVE IT UP Pour into the mug, and serve immediately with malted milk cookies on the side.

MOCHA BANANA



Fresh banana is difficult to blend with coffee, but when frozen and blended with ice, milk, vanilla, and chocolate, it works beautifully. Like a coffeeflavored smoothie, this drink is invigorating, filling, and refreshing.

milk, vanilla, banana, chocolate, and espresso blend



medium tumbler

Using the technique on pp44-45, brew two _ shots/1¹/₂fl oz (50ml) of espresso in a pitcher.

Pour the espresso, 5fl oz (150ml) milk, ¹/₂ teaspoon vanilla extract, 5–6 ice cubes, ½ ripe frozen banana. 1 tablespoon chocolate sauce, and 2 teaspoons sugar into a blender, and mix until smooth.

SERVE IT UP Pour into the tumbler, decorate with a vanilla pod and slice of banana, and serve.



ICED BLENDS • HOT ALCOHOLIC COFFEES 205

ESTONIAN MOCHA

🕞 GEAR ESPRESSO 💧 DAIRY MILK 🌡 TEMP HOT 🖉 SERVES 1

Vana Tallinn is a rum-based liqueur with hints of citrus, cinnamon, and vanilla, all frequently noted flavors in high-quality coffees. With the addition of some chocolate sauce, this becomes a caffè mocha with a kick.



cosmopolitan glass

Pour 1 tablespoon chocolate sauce and 1fl oz (30ml) Vana Tallinn L into the glass, mixing well.

Steam 4fl oz (120ml) milk in a pitcher to about 140–150°F (60–65°C) ar until the pitcher is just too hot to touch (see pp48-51). Pour it carefully into the glass.

Using the technique on pp44–45, brew two shots/1¹/₂fl oz (50ml) **O** of espresso into a small pitcher.

SERVE IT UP Pour the espresso into the glass, and serve.

RECOMMENDED BEANS Coffees with hints of citrus, cinnamon, and vanilla.

CORRETTO ALLA GRAPPA

GEAR ESPRESSO

DAIRY WITHOUT I TEMP HOT 1 SERVES 1

An espresso corretto is a shot of espresso "corrected" with a shot of spirit or liquor, usually Grappa, but sometimes Sambuca, Brandy, or Cognac. The shot is usually added before serving, but you can also serve it on the side.



Using the technique on pp44-45, brew one shot/1fl oz (25ml) _ of espresso into your cup.

• Pour **1fl oz (25ml) Grappa**, or any spirit of your choice, over \checkmark the top of your espresso.

SERVE IT UP Serve immediately.

demitasse cup

RON DULCE

GEAR ESPRESSO 🚺 DAIRY WHIPPED CREAM 🌡 TEMP HOT 🖉 SERVES 1

Caramel is a flavor that goes seriously well with coffee. This recipe embraces that taste combination with creamy dulce de leche, added coffee flavor from the sweet Kahlua, and a warming sensation from the rum.



medium glass

Pour **1 tablespoon dulce de leche** into the glass. Pour over **1fl oz (25ml) rum** and **1 tablespoon Kahlua**.

2 Using the technique on pp44–45, brew **two shots/1½fl oz (50ml)** of espresso into a small pitcher and pour it over the alcohol.

9 Whisk **1fl oz (25ml) whipped cream** until thickened **but not stiff.**

 ${\sf SERVE}$ IT UP Layer the cream on top, pouring it in off the back of a spoon, and serve.

PANDA ESPRESSO

🕞 GEAR ESPRESSO 🌔 DAIRY WITHOUT 🌡 TEMP HOT 🖉 SERVES 1

Mint and licorice is a classic combination that pairs well with coffee. Using a green Crème de Menthe here can make for an interesting visual experience, but if you don't like the idea of a green drink, try a clear Crème de Menthe instead.



Pour **1 tablespoon Sambuca** and **1 tablespoon Crème de Menthe** into the glass.

2 Using the technique on pp44–45, brew two shots/ $1^{1}\!/_{2}$ fl oz (50ml) of espresso into a small pitcher and pour it carefully into the glass.

SERVE IT UP Garnish with a fresh mint leaf, and serve.

small glass

PANDA ESPRESSO If you prefer not to down your drinks in one, give this espresso shot a little stir before sipping.

63

RUSTY SHERIDANS

🕞 GEAR ESPRESSO 💧 DAIRY WITHOUT 🌡 TEMP HOT 🖉 SERVES 1

Inspired by the Rusty Nail, the most famous Drambuie cocktail, this recipe leads with whisky, but adds Sheridans for sweetness and to make the coffee flavor more pronounced. For a brighter note, let the lemon twist infuse in the espresso.



small glass

Using the technique on pp44-45, brew **1 shot/1fl oz (25ml) of espresso** into the glass.

 $\label{eq:stars} 2 \mbox{ Mix 1fl oz (25ml) Drambuie, 1fl oz (25ml) Sheridans, and 11/2fl oz (50ml) whiskey in a pitcher and pour the mixture carefully into the glass, allowing the crema of the espresso to sit on the rising surface as you pour.$

SERVE IT UP Garnish with a lemon twist, and serve.

IRISH COFFEE Gear Brewer Dairy CREAM Temp Hot Temp Serves 1

Joe Sheridan created the Irish Coffee in 1942, and it has since become the most famous coffee-based drink in the world. It mixes coffee (strong as a friendly hand) and whiskey (smooth as the wit of the land) with sugar and cream.



Irish coffee glass

Using the technique on p129, brew **4fl oz (120ml) strong coffee** in a pour-over filter.

 $2\,$ Pour the coffee and ${\bf 2}$ teaspoons brown sugar into the glass, and stir until the sugar dissolves.

Add **1fl oz (30ml) Irish whiskey** and stir. Lightly whip **1fl oz (30ml) cream** until it thickens but doesn't become stiff.

SERVE IT UP Float the cream on top of the coffee by pouring it gently off the back of a spoon, and serve.

ACROSS THE EQUATOR

GEAR BREWER A DAIRY HEAVY CREAM

The Norwegian Linie Aquavit, a herb-infused spirit, spends months maturing at sea, on board ships that cross the equator twice on a round trip to Australia. Norwegians love their coffee as well-here these two drinks mix in a unique way.



large mug

Brew **5fl oz (150ml) coffee** using a French press (p128), AeroPress 上 (p131), or brewer of your choice. Pour it into the mug.

Add 1 teaspoon sugar, and stir until dissolved. Add 1fl oz (30ml) Linie Aquavit and float 1¹/₂fl oz (50ml) heavy cream on top.

SERVE IT UP Garnish with a fennel sprig, and serve.

ORCHARD RUM



Apples and coffee might not seem like an obvious pairing, but they complement each other very well. If you can't find Applejack, other apple-based liqueurs such as Calvados or Pommeau make perfect replacements.



Brew 8fl oz (240ml) coffee using a French press (p128), AeroPress (p131), or brewer of your choice,

Mix the coffee in the mug with **1fl oz (30ml) Applejack** and **1fl oz** (30ml) white rum.

SERVE IT UP Sweeten to taste with molasses, and serve.

RECOMMENDED BEANS Apple-based spirits highlight the soft fruit notes of many good-quality Central American coffees.

large mug

COGNAC BRULOT

GEAR BREWER A DAIRY WITHOUT I TEMP HOT SERVES 1

This variation of the classic New Orleans Caffè Brulot uses either Cognac or brandy as the spirit. Caffè Brulot was invented by Jules Alciatore at Antoine's Restaurant during the Prohibition-the citrus and spice were a clever way to conceal alcohol.



snifter glass

Pour 1fl oz (30ml) Cognac into the glass and keep it warm using a brandy warmer. Add 1 teaspoon brown sugar, 1 cinnamon stick, 1 clove, 1 lemon twist, and 1 orange twist.

Brew about 5fl oz (150ml) coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice. Pour it into the glass. If the angle of the snifter means the coffee will overflow, take it off the brandy warmer stand before filling.

SERVE IT UP Stir with the cinnamon stick until the sugar is dissolved and the ingredients have infused, and serve.

AVERIN CLOUD

GEAR BREWER A DAIRY CREAM

The averin is an amber-colored berry most commonly known as cloudberry or bakeapple. Inspired by the Norwegian dessert "Multekrem," which combines averin jam and whipped cream, this recipe adds grape vodka for a twist.



Brew 6fl oz (180ml) coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice.

Pour the coffee into the glass and pour 1fl oz (30ml) Lakka and **1fl oz (30ml) Cîroc**, or **other fruit-based vodka**, over the top.

SERVE IT UP Whip 31/2fl oz (100ml) cream with a dash of Lakka, float a layer on top of the drink, and serve.

medium glass

HOT ALCOHOLIC COFFEES • COLD ALCOHOLIC COFFEES 211

CREAM VERMOUTH

GEAR BREWER DAIRY ICE CREAM LEMP HOT SERVES 1

Flavored with herbs, Vermouth contributes complexity to this cocktail, which uses chocolate ice cream for sweetness. You can stir the ice cream to melt it, or serve with a spoon.





cosmopolitan glass

Place 1 scoop chocolate ice cream at the bottom of the glass, and pour 1fl oz (30ml) rum and 1fl oz (30ml) vermouth over the top.

Brew 6fl oz (180ml) strong coffee using a French press (see p128), AeroPress (see p131), or brewer of your choice.

SERVE IT UP Pour it gently into the glass, sweeten to taste with brown sugar, and serve.

ESPRESSO MARTINI

GEAR ESPRESSO A DAIRY WITHOUT A TEMP COLD A SERVES 1

This is an elegant drink that can be enjoyed with or without the added sweetness of a chocolate liqueur such as Crème de Cacao. If you don't want to use the Crème de Cacao, double your quantity of Kahlua.



martini glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso. Let it cool slightly.

Combine the coffee with 1 tablespoon Crème de Cacao, 1 tablespoon Kahlua, and 11/2fl oz (50ml) vodka in a cocktail shaker. Add ice cubes and shake well. If you combine the espresso and alcohol first, the liquid will be cooler and the ice cubes won't melt as much.

SERVE IT UP Double strain into the glass, garnish the foam with 3 coffee beans. and serve.

GIN CHAMBORD

GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

Coffee is easily paired with most fresh berries. This dairy-free cocktail with gin and grapefruit juice perfectly complements the ingredients of the Chambord. Some simple syrup counteracts the acidity of the fresh berries.



Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) of espresso into a small pitcher. Let it cool slightly.

• Crush **5 raspberries** with **1fl oz (25ml) Chambord** and then mix in a cocktail shaker with 1/2fl oz (20ml) simple syrup (see pp162–63), **1fl oz (25ml) gin**, and **1 tablespoon grapefruit juice**. Add **ice cubes** to the shaker, and pour the espresso over.

SERVE IT UP Shake well and strain into the glass. Garnish with a raspberry on the rim of the glass, and serve.

CHARTREUSE HARD SHAKE

GEAR ESPRESSO 💧 DAIRY MILK 📕 TEMP COLD 🖉 SERVES 1

When added to ice cream, the herbal flavors of Chartreuse liqueur mellow, and the combination creates a great alternative to dessert. Reduce the quantity of milk if you prefer a thicker texture. For contrast, decorate with coffee beans.



goblet

Using the technique on pp44-45, brew **two** shots/11/2fl oz (50ml) of espresso into a pitcher.

• Pour the espresso, **5fl oz (150ml) milk** and **1**¹/₂**fl** *—* oz (50ml) Chartreuse liqueur into a blender, add **1** scoop ice cream, and mix until smooth.

SERVE IT UP Pour into the goblet, and serve.

RECOMMENDED BEANS Chartreuse and ice cream complement many washed Ethiopian coffees.



COLD ALCOHOLIC COFFEES 213

GRAND CHOCOLATE

🕞 GEAR ESPRESSO 💧 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

Chocolate and orange is a classic flavor combination, and combined with Bourbon and espresso, the complexity of aromas makes this drink a firm afterdinner favorite. You could try it served hot-simply take out the ice cubes.

	7
Bourbon	
Grand Marnier _	
chocolate	
espresso mix	
ice cubes	

small glass

Using the technique on pp44-45, brew two shots/11/2fl oz (50ml) **d** of espresso into a small pitcher, and stir in **1 teaspoon chocolate sauce** (see pp162-63) until it melts.

Place 4-5 ice cubes in the glass and pour the chocolate-espresso mix up over. Stir until the espresso cools. Add **1 tablespoon Grand Marnier** and $1^{1}/_{2}$ fl oz (50ml) Bourbon.

SERVE IT UP Garnish with an orange twist, and serve.

COLD KIRSCH

GEAR ESPRESSO 👖 DAIRY WITHOUT 📕 TEMP COLD 🖉 SERVES 1

Evocative of a liquid Black Forest Gâteau, you could serve this drink with dark chocolate truffles or a rich chocolate ice cream. Cool the espresso completely before adding the egg white, and double strain to achieve the creamy texture.



Place ice cubes in a cocktail shaker. Using the technique on pp44–45, brew two shots/11/2fl oz (50ml) of espresso over the top, allowing to cool.

Pour 1fl oz (25ml) Cognac, 1fl oz (25ml) cherry brandy, and 2 teaspoons egg white into the shaker, and shake well. Double strain into the goblet.

SERVE IT UP Sweeten to taste with simple syrup (see pp162-63), and serve.

PORT CASSIS Place your glass in the freezer for an hour or so before serving, to help to keep the coffee cool.
PORT CASSIS

GEAR ESPRESSO 🚺 DAIRY WITHOUT 🌡 TEMP COLD 💋 SERVES 1

Fortified wines match beautifully with coffee, especially if you brew an espresso from a bean that shares the same fruit characteristics. Crème de Cassis adds a layer of sweetness to round it all off.



snifter glass

Place **4-5 ice cubes** in the snifter glass, and pour in **1fl oz (25ml) Crème de Cassis**.

2 Using the technique on pp44–45, brew one shot/1fl oz (25ml) of espresso into the snifter, and stir to cool the coffee. Gently pour in 2½fl oz (75ml) Port.

SERVE IT UP Garnish with a blackberry, and serve.

RECOMMENDED BEANS The fruity and wine-like notes in a good Kenyan coffee will complement the berries and Port.

REGAN DISARONNO

🛉 GEAR BREWER 🌔 DAIRY WITHOUT 🌡 TEMP COLD 🖉 SERVES 1

Disaronno (considered an Amaretto), is a liqueur flavored with apricot oil, herbs, and fruits. The almond and apricot flavorings complement the liqueur, while the mocha sauce makes this drink taste of chocolate-covered almonds.



Brew **3**¹/2**fl oz (100ml) coffee** using a French press (see p128), AeroPress (see p131), or brewer of your choice. Allow to cool.

2 Pour the cooled coffee with **1fl oz (25ml) Disaronno**, **1 tablespoon mocha sauce**, **ice cubes**, and **5–6 drops each almond and apricot flavorings** into a cocktail shaker, and shake well. Double-strain into the glass.

SERVE IT UP Scatter some chocolate shavings over, and serve.

small glass

216 THE RECIPES

GREEN FAIRY JUNIPER

🛉 GEAR BREWER 🚺 DAIRY WITHOUT 🌡 TEMP COLD 🖉 SERVES 1

Absinthe, with its licorice flavor, goes really well with the juniper in gin and makes this a unique drink. If you can't find Absinthe easily, Pernod is another flavorsome—and often less potent—replacement.



margarita glass

Brew **2¹/₂fl oz (75ml) cold coffee** using a French press (see p128), AeroPress (see p131), or brewer of your choice. Allow to cool.

2 Pour the coffee, **1fl oz (25ml) gin**, **1fl oz (25ml) Absinthe**, **3 teaspoons simple syrup** (see pp162-63), and **ice cubes** into a cocktail shaker, and shake well.

SERVE IT UP Double-strain into the glass, float a **star anise** on top, and serve.

RECOMMENDED BEANS Beans with herbal overtones, such as a classic Ethiopian light roast, can add a layer of complexity and refreshment.

RUMMY CAROLANS

dear Brewer 🚺 dairy without 🌡 temp cold 🖉 serves 1

Sometimes sweet and warming is what you want, even from an iced cocktail. This combination of rum and Carolans with the boost of coffee flavor from the Tia Maria gives you just that—refreshment and comfort.



medium glass

Fill a saucer with a little **rum** and another with **sugar**. Wet the rim of the glass in the rum, then dip it into the sugar.

2 Using a French press (see p128), AeroPress (see p131), or brewer of your choice, brew **2¹/₂fl oz (75ml) double-strength coffee** over **ice cubes**.

Pour the coffee, 1 tablespoon Tia Maria, 1 tablespoon Carolans, 1fl oz
(25ml) rum, and sugar to taste into a cocktail shaker, and shake.

SERVE IT UP Fill the glass with **ice cubes**, double-strain the drink over the top, and serve.

MEXICAN LIMELIGHT

🛉 GEAR BREWER 📋 DAIRY WITHOUT 🌡 TEMP COLD 🖉 SERVES 1

Mexico grows coffee, makes tequila, and produces agave nectar. Mix the three with lime, and you have a beverage that has a lower glycaemic index than a drink sweetened with sugar. Choose a dark agave for a more caramelized taste.



medium glass

Place **4–5 ice cubes** in the glass. Brew **3¹/₂fl oz (100ml) coffee** using a French press (see p128), AeroPress (see p131), or brewer of your choice. Allow to cool.

2 In another glass, dissolve 1 tablespoon light agave nectar in $1^{1}/_{2}fl$ oz (50ml) tequila and pour it over the ice cubes, followed by the cold coffee.

SERVE IT UP Run a **slice of lime** around the edge of the glass, hang it on the rim, and serve.

HAZEL KRUPNIK

🛉 GEAR BREWER 🌔 DAIRY WITHOUT 🎚 TEMP COLD 🖉 SERVES 1

Honey is a great alternative to sugar, and in this recipe, Krupnik (a sweet alcoholic drink popular in Poland and Lithuania) adds the honey flavor while lemon vodka keeps the drink from becoming too sweet and heavy.



martini glass

Using a French press (see p128), AeroPress (see p131), or brewer of your choice, brew 11/2fl oz (50ml) double-strength coffee over ice cubes.

Pour the coffee, **1 tablespoon Frangelico**, **1 tablespoon Krupnik**, **1fl oz (25ml) lemon vodka**, and **ice cubes** into a cocktail shaker and shake well.

SERVE IT UP Double-strain into the glass, garnish with a vanilla pod, and serve.

RECOMMENDED BEANS The hazelnut and vanilla notes in Frangelico go beautifully with sweet, nutty Brazilian coffees (see pp92-93).

218 GLOSSARY

GLOSSARY

ARABICA One of two commercially grown species of coffee *(see also Robusta)*. Arabica is the higher quality species of the two.

BENEFICIOS A Spanish word for a processing mill (either wet or dry).

BURRS Disks in grinders that crush coffee beans into particle sizes for brewing or espresso.

CAFFEINE A chemical found in coffee that contributes to feelings of alertness.

CHAFF The thin layer of skin that covers a roasted coffee bean.

COFFEE CHERRY The fruit of the coffee tree. It is surrounded by a skin, and contains mucilage, parchment, and, usually, two coffee seeds.

COLD-BREWED COFFEE Coffee that is prepared with a dripper tower and cold water, or a hot brew that is allowed to cool.

COMMODITY MARKET The coffee trade market in New York, Brazil, London, Singapore, and Tokyo.

CREMA The layer of foam that forms on top of an espresso.

CULTIVAR A cultivated variety *(see also Variety)* intentionally bred for consumption.

CUPPING The practice of tasting and evaluating coffees.

DE-GASSING The practice of leaving beans to release gases created during the roasting process.

DEMITASSE A "half cup"–typically referring to a 3oz (90ml) espresso cup with a handle.

DOSE A measure of coffee intended for brewing with water.

EXTRACTION A process that occurs during brewing, when coffee solubles dissolve into water.

GREEN BEANS Raw, unroasted coffee beans.

HYBRID A cross between two species of coffee.

MUCILAGE The sticky, sweet fruit meat or pulp surrounding the parchment-covered coffee seeds inside a coffee cherry.

NATURAL PROCESS The practice of processing coffee cherries by leaving them out to dry in the sun.

PEABERRIES Single (as opposed to double) round seeds that may be found inside coffee cherries.

POTATO DEFECT The raw potato smell and taste attributed to coffee beans affected by a certain bacteria.

PULPED NATURAL PROCESS

The practice of processing coffee cherries by removing skin but leaving mucilage intact before they are left out to dry.



ROBUSTA One of two commercially grown species of coffee *(see also Arabica)*. Robusta is the lower quality species of the two.

SOGESTAL The managing body of Burundian washing stations, akin to Cooperative Societies in Kenya.

TAMPING The practice of compacting ground coffee in the filter basket of an espresso machine.

TRACEABILITY The assertable origin, source, information, and backstory of a coffee.

VARIETY A taxonomy class describing members of a speciessuch as Arabica-that have identifiable differences.

WASHED PROCESS The practice of processing coffee cherries by removing skin and mucilage with soaks and rinses, before leaving parchment-covered beans out to dry in the sun.

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A NOTE ON THE MAPS

Coffee bean icons show the location of notable coffeeproducing regions on the maps on pp56-123. Green shading indicates coffee production over a larger area—either within political boundaries or over approximate climate-driven geographical areas.

A NOTE ON THE RECIPES

For best results, refer to these recommended volumes. Cups demitasse–3fl oz/90ml; small–4fl oz/120ml; medium–6fl oz/180ml; large– $9^{1}/_{2}$ fl oz/250ml. Mugs small–7fl oz/200ml; medium– $9^{1}/_{2}$ fl oz/250ml; large– $10^{1}/_{2}$ fl oz/300ml. Glasses small–6fl oz/180ml; medium– $10^{1}/_{2}$ fl oz/300ml; tall–12fl oz/350ml.