

LEARNING MADE EASY



Zoom

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Hold individual and group
video calls and meetings

Secure your calls and
messages from prying eyes

Host professional, robust,
and interactive webinars

Phil Simon

Author of *Slack For Dummies*

Two chapter excerpt courtesy of John Wiley & Sons, Inc.



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Table of contents for complete book provided as a preview. This excerpt includes the Introduction and Chapters 1 and 17.

Table of Contents

INTRODUCTION	1
About This Book	2
Foolish Assumptions	2
Icons Used in This Book	4
Beyond the Book	5
Where to Go from Here	5
Thank You	6
PART 1: STAYING CONNECTED WITH ZOOM	7
CHAPTER 1: Communicating and Collaborating Better with Zoom	9
Introducing Zoom	9
Discovering Zoom's origins	10
Understanding what Zoom does	11
Reviewing the numbers behind Zoom's rapid ascent	13
Assessing how COVID-19 changed Zoom's trajectory	14
Reviewing Zoom's industry awards and recognition	16
Analyzing Zoom's competitive landscape	17
Reaping the Benefits of Zoom's Tools	23
Zoom solves some of today's key communications problems	23
Zoom makes people more productive	24
Zoom just works	25
Zoom is affordable	26
Zoom is flexible and interoperable	26
Zoom stays in its lane	27
Zoom lets people rediscover their humanity	28
CHAPTER 2: Getting to Know Zoom's Suite of Communication Tools	29
Zoom's Core Services	30
Ready to Go	31
Zoom Meetings & Chat	31
Zoom Video Webinars	37
Some Assembly Required	39
Zoom Rooms	39
Zoom Phone	43

PART 2: COMMUNICATING AND COLLABORATING IN ZOOM	45
CHAPTER 3: Setting Up Zoom	47
Taking Your First Steps	47
Creating a new Zoom account	48
Modifying your Zoom plan	52
Downloading and installing the Zoom desktop client	54
Signing in to the Zoom desktop client	56
Completing your Zoom profile	57
Getting to know the Zoom UI	58
Reviewing Zoom Account Management	59
Adding new users to your Zoom account	60
Deactivating existing accounts	61
Deleting existing users from your Zoom account	62
Unlinking users from your Zoom account	63
Unlocking the power of Zoom user groups	64
Discussing the Importance of Zoom Roles	67
Reviewing Zoom's default roles	67
Creating new user roles	68
Changing an existing user's role	69
CHAPTER 4: Connecting with Others via Zoom Meetings	71
Getting Started with Zoom Meetings	72
Reviewing Zoom's meeting-specific roles	72
Locating your personal Zoom information	74
Augmenting your Zoom meetings	75
Hosting Zoom Meetings	78
Inviting others to your current meeting	80
Planning a future Zoom meeting	82
Letting others in to your current meeting	89
Joining others' Zoom meetings	90
Putting your best foot forward	93
Performing Mid-Meeting Actions	95
Reviewing your recording options	95
Using virtual backgrounds	97
Managing and interacting with meeting participants	99
Launching live polls	100
Using breakout rooms during meetings	102
Sharing content with meeting participants	105
Putting a Bow on Your Meeting	115
Viewing meeting transcriptions	116
Accessing your recorded meetings	117

CHAPTER 5: Getting to Know the Other Side of Zoom Meetings & Chat	121
Managing Your Zoom Contacts	122
Adding contacts to your Zoom directory	123
Removing an existing contact from your Meetings & Chat directory	125
Inviting an existing Zoom contact to a new meeting	126
Adding internal contacts to an existing meeting	126
Performing contact-specific actions	127
Understanding User Status in Zoom	128
Getting familiar with Zoom's status icons	129
Changing your status in Meetings & Chat	130
Staying current with Zoom notifications	133
Chatting in Zoom	134
Exchanging messages with your individual Zoom contacts	134
Holding group chats	136
Creating threads in Zoom	139
Saving message drafts	141
Editing and deleting your messages	141
Referencing other Zoom members in a group discussion	142
Adding some flair to your messages	143
Uploading and sharing files in Zoom	146
Sending screen captures	148
Performing message-specific actions	149
Searching in Zoom	150
Performing basic Zoom searches	150
Performing more advanced Zoom searches	153
Performing searches with wildcards	155

PART 3: BECOMING A ZOOM POWER USER 157

CHAPTER 6: Getting Even More Out of Meetings & Chat	159
Managing Users via IM Groups	160
Understanding the need for IM groups	160
Adding a new IM group	161
Adding users to IM groups	162
Exploring Additional Options and Features in Meetings & Chat	163
Understanding Zoom Channels	163
Refining your Zoom notifications	174
Sharing code snippets	178

Running Reports in Zoom	181
Reviewing Zoom’s role-based reporting.	182
Running a simple report.	185
Customizing your reports.	186
Exporting raw report data	188
CHAPTER 7: Enhancing Zoom with Third-Party Apps	189
Understanding the Rationale behind Third-Party Apps.	190
Benefits of using third-party apps	190
Why Zoom relies upon external developers	191
Introducing the Zoom App Marketplace	192
Searching for a specific Zoom app	193
Browsing for Zoom apps	194
Managing Your Zoom Apps	195
Installing a Zoom app	196
Uninstalling a Zoom app	197
Viewing your organization’s installed apps	199
Restricting apps in Meetings & Chat.	199
Limiting apps that members can install.	200
Recommending a Few Useful Zoom Apps.	202
Treading Lightly with Apps.	204
CHAPTER 8: Connecting with the Masses through Webinars	207
Taking Your First Steps	208
Creating your first Zoom webinar.	209
Setting your registration options	210
Preparing for your webinar	212
Reviewing Zoom’s webinar-specific roles.	217
Taking Zoom webinars up a notch with third-party apps and integrations.	223
Canceling your webinar	224
Running Your Webinar	225
Launching your webinar.	225
Sharing and annotating your screen	228
Interacting with webinar attendees	230
Concluding Your Webinar	236
Accessing your recorded webinar and sharing it with the world	236
Downloading your recorded webinar.	238
Running webinar-related reports	239
Deleting your recorded webinars	241

PART 4: DEPLOYING ZOOM IN THE ORGANIZATION	243
CHAPTER 9: Protecting Your Communications in Zoom	245
Putting Zoom’s Challenges into Proper Context.	246
Understanding creative destruction.	246
Managing the double-edged sword of sudden, massive growth	247
Zoombombing	247
Gauging Zoom’s Response.	251
Bringing Zoom’s privacy and security settings to the forefront	252
Enhancing its encryption method.	253
Enabling default passwords and waiting rooms for all meetings	255
Increasing the length of meeting and webinar IDs.	255
Configuring Zoom for Maximum Privacy and Security	256
Keeping Zoom up to date.	256
Enabling two-factor authentication	260
Authenticating user profiles.	264
Intelligently using passwords.	267
Following Zoom’s best security practices.	272
Using your brain	274
Looking toward the Future.	276
CHAPTER 10: Taking Group Meetings to the Next Level with Zoom Rooms	279
Revisiting the Early Days of Immersive-Telepresence Technology	280
TelePresence by Cisco Systems.	280
Halo by Hewlett-Packard	281
The underwhelming results of early immersive-telepresence technology.	282
Introducing Zoom Rooms.	283
Features of Zoom Rooms	283
Cost and functionality.	284
The types of environments that typically benefit from Zoom Rooms	284
Setting Up Your Zoom Room	285
Software	285
Hardware	286
Lighting	291

CHAPTER 11: Making Calls with Zoom Phone	293
Getting Started with Zoom Phone	294
Adding Zoom Phone to your existing plan	294
Setting up Zoom to receive inbound calls	296
Setting up Zoom to make outbound calls	298
Reviewing the Basic Features of Zoom Phone	302
Before distributing your Zoom Phone number	303
Talking to people via Zoom Phone	306
Performing other call-related actions	309
CHAPTER 12: Getting Everyone to Zoom Together	313
Understanding the Relative Ease of Zoom Adoption	314
Zoom is remarkably easy to use	314
Zoom doesn't step on email's toes	314
Zoom doesn't require people to rethink how they work	315
Zoom benefits from network effects	317
Applying Different Types of Techniques	318
Organizational techniques	318
Individual techniques	321
CHAPTER 13: Zooming toward the Future	325
Cutting-Edge Technologies	326
Augmented reality	326
Virtual reality	326
Artificial intelligence and machine learning	327
Voice	329
Better voice transcriptions	330
More useful commands	330
Real-time language translation	331
Other Developments and Enhancements	331
More robust third-party apps	331
Key acquisitions and partnerships	332
Increased security	332
PART 5: THE PART OF TENS	335
CHAPTER 14: Ten Great Zoom Tips	337
Try Before You Buy	337
Consider Upgrading Your Firm's Existing Zoom Plan	338
Take Security Seriously	338
Keep Zoom Updated	339
Create a Personal Zoom Account	339
Explore Zoom's Advanced Features	340
Measure Twice and Cut Once	340

	Develop a Contingency Plan for Important Meetings	340
	Expect Some Resistance to Zoom at Mature Firms	341
	Avoid Zoom Fatigue	342
CHAPTER 15:	Ten Common Myths about Zoom	343
	Zoom Is No Different than Legacy Videoconferencing Tools	343
	Zoom Is Fundamentally Insecure	344
	Zoom’s Customers Use the Tools in a Uniform Way	344
	Zoom Ensures Flawless Business Communication.	345
	Zoom Decimates the Need for In-Person Communication.	345
	Zoom Eliminates the Need for Email	346
	You Can’t Overuse Zoom	346
	Zoom Is Too Expensive for Our Company.	347
	Zoom Won’t Integrate with Our Key Enterprise Technologies	348
	Our Workers Don’t Need a Tool like Zoom	348
	Only Hipsters at Tech-Savvy Startups Use Zoom	348
CHAPTER 16:	Top Ten or So Zoom Resources	349
	Resources for Everyday Users	350
	Zoom support	350
	Zoom training.	351
	Zoom on YouTube.	351
	Zoom apps	351
	Zoom blog.	351
	Zoomtopia	352
	Zoom virtual backgrounds.	352
	Zoom on social networks	352
	Resources for Software Developers	353
	Zoom developer guides	353
	Developer forums	353
CHAPTER 17:	Ten Ways to Socialize via Zoom	355
	Cooking and Eating Meals	355
	Visiting Sick Friends and Family Members.	356
	Dating	356
	Sharing a Few Drinks over Happy Hour	356
	Playing Brick-and-Mortar Games	356
	Playing Video Games.	356
	Watching Movies and TV Shows	357
	Performing Stand-Up Comedy	357
	Staying Fit	357
	Holding Miscellaneous Parties	357
INDEX		359

Introduction

Depending on your age, you may take today's powerful communication technologies for granted. (I have done it myself.) Trust me, however: Not that long ago, communicating with others was a dramatically different experience.

As recently as the early 1990s, the most pervasive methods for exchanging messages included instruments of which you may have never heard: landlines, intra-office memos, typewriters, and Telex and fax machines. For personal correspondence, handwritten letters were commonplace, not relics of a bygone era.

The following statistic illustrates the extent to which communication has changed over the last 30-plus years.

On January 24, 2001, the Federal Communications Commission (FCC) released a study on the telecommunications industry. Remarkably, the FCC found that the average per-minute rate for interstate calls in 1984 was roughly 17 cents. (Read the study yourself at bit.ly/fcc-zoom.)

Say that you lived in northern New Jersey in 1984, as I did at the time. You called your friend in New York and talked for an hour. You could expect to pay \$10 for the privilege. And forget about international calls. Back then, talking to someone in another country was prohibitively expensive. (And you think that long-distance relationships are hard now?) Even worse, the quality and reliability of audio calls usually left more than a bit to be desired. As for video calls, they were pipe dreams back then.

Fast forward to today. Put mildly, we're not in Kansas anymore.

Communication has undergone a veritable sea change. Thank the usual suspects: increasingly powerful computers, the Internet, the World Wide Web, email, Moore's Law, social networks, smartphones with their über-addictive apps, the explosion of affordable broadband connections, improvements from telecommunications carriers, ambitious entrepreneurs, and cloud computing.

The most recent addition to this formidable list is Zoom. Its suite of tools allows hundreds of millions of people to communicate and collaborate easily, affordably,

and reliably with others no matter where they are. Both professionally and personally, Zoom allows people to stay in touch with each other, especially during pandemics and stay-at-home orders.

Zoom's products help teachers conduct virtual classes with their students. Pilates and yoga instructors use Zoom in similar ways. Rock bands jam via Zoom, including Marillion — one of my very favorites. Rabbis and priests rely upon Zoom to connect with their congregations from their homes. Journalists conduct interviews with it. In the corporate world, Zoom helps salespeople close deals, host untold numbers of employee- and customer- training sessions, and allow executives to address their troops from distant locations.

No, Zoom doesn't solve every conceivable communication problem. No software program can. Still, when used properly, Zoom promotes simple and effective communication — and more than 300 hundred million people have taken notice.

About This Book

Against this backdrop arrives *Zoom For Dummies* — the most extensive guide on how to use this powerful, flexible, affordable, and user-friendly suite of communication and collaboration tools. It provides an in-depth overview of Zoom's most valuable features — some of which even experienced users may have overlooked. The book you're holding goes beyond merely demonstrating how to install, configure, and customize Zoom's flagship Meetings & Chat product, though. It also offers practical tips on how individual users, groups, and even entire firms can get the most out of Zoom's tools. Finally and perhaps most important, I describe how to secure Zoom from prying eyes.

As with all titles in the *For Dummies* series, you'll find the book's organization and flow straightforward and intuitive. My tone is conversational, and I drop the occasional joke. (Whether or not it ultimately lands is your call to make.) Ideally, you'll have fun while concurrently learning how to use an increasingly important, popular, and useful set of tools. I certainly enjoyed writing it.

Foolish Assumptions

I wrote *Zoom For Dummies* with a number of different cohorts in mind:

» People who want to adopt a contemporary videoconferencing tool.

- » People who generally want to know more about Zoom’s different products and how they work. Perhaps they have subscribed to one (usually, Meetings & Chat) and want to learn more about the others.
- » Employees at companies that have already experimented with or purchased Zoom but haven’t explored most of its powerful features.
- » Organization decision-makers who believe that their employees can collaborate and communicate better and be more productive. (Make no mistake: They are right.)



The target audience for *Zoom For Dummies* is everyday users, not application developers. To be sure, I mention a few resources for people who want to know more about creating third-party apps. Coders looking for a text on how to build Zoom apps, however, will have to go elsewhere.

Zoom For Dummies presumes zero prior use or even knowledge of Zoom’s suite of tools. Zilch. Fret not if you’re not exactly tech-savvy. You’ll be fine. Perhaps you just want to understand more about what this “Zoom thing” does and how you can do it. In fact, even if you have used Zoom’s tools, reading this book will teach you a great deal.

Congratulations. You’ve found the right book.

I do, however, make a few assumptions. Specifically:

- » You are curious about how you can use Zoom to communicate with your colleagues, partners, customers, vendors, and/or friends.
- » You know how to use a proper computer, whether it’s a Mac or PC.
- » You can navigate a mobile device, such as a smartphone or a tablet.
- » At some point in your life, you’ve accessed the Internet via a web browser.

I’m a firm believer in truth in advertising. By way of background, my editor and I wanted to keep this book at a reasonable length and cost. Accomplishing this objective forced me to make some conscious decisions about its content that I want you know from the get-go.

First, the book that you’re holding is no 700-page opus. *Moby Dick* it is not. At the same time, though, it certainly isn’t slim. *Zoom For Dummies* does not include step-by-step directions to configure and tweak every setting or feature for a single Zoom service, never mind all of them. Please understand this choice going in. Such a task is simply impractical. Even if it were, Zoom adds new features on a regular basis and, on occasion, changes and retires existing ones. All software companies do today. Way it goes. . .

At a high level, *Zoom For Dummies* highlights

- » Its essential and frequently used features
- » Some relatively obscure functionality that people should use or, at the very least, ought to know about

In some cases, I describe a feature without spending valuable space on how to actually do it because Zoom makes it self-explanatory.

Second and along these lines, I have intentionally written all the instructions in this book in a device-agnostic manner. In other words, I demonstrate how to do things in Zoom by using its desktop client and, in some necessary cases, via a web browser.

No, I'm not living in the past. (Well, I am with my tastes in music and movies, but I digress.) I know full well that mobile devices arrived in earnest a long time ago. At times, I mention in passing how you can perform a specific Zoom task on a smartphone or tablet. Due to space considerations, however, I simply cannot replicate how to execute each Zoom action on all iOS and Android versions and devices. Minor differences persist.

Even if I somehow managed to pull off that remarkable feat in the following pages, odds are that you'd ignore large chunks of *Zoom For Dummies*. Very few folks use every mainstream operating system or OS. People typically pick one side or the other. As Mr. Spock says in the 1982 film *The Wrath of Khan*, "Logic clearly dictates that the needs of the many outweigh the needs of the few."

Fear not, young Jedi. (Apologies to sci-fi geeks for putting *Star Wars* and *Star Trek* references so close together.) The vast majority of users find Zoom to be remarkably intuitive. You'll soon be able to naturally perform many of Zoom's key functions. In the event that accomplishing something on your phone or tablet vexes you, the support portion of Zoom's website contains detailed instructions on how to do whatever you want on every OS.

Icons Used in This Book

Zoom For Dummies highlights key information in the margins. You'll find small pictures that indicate the following:



TIP

This icon identifies shortcuts and/or tricks that should save you some time.



WARNING

Be careful whenever you see this icon.



TECHNICAL
STUFF

This icon highlights technical information that may or may not interest you. If not, then feel free to skip it.



REMEMBER

You'll want to keep these key points in mind as you work in Zoom. This icon emphasizes those points.

Beyond the Book

In addition to the book that you're reading right now, you can also access a free Zoom Cheat Sheet. It's full of pointers and shortcuts on how to immediately start using Meetings & Chat. Access it by visiting www.dummies.com and typing "Zoom For Dummies Cheat Sheet" in the Search box.

Where to Go from Here

If you like, you can start reading this book on page one and continue to the end. The option is yours. *Zoom For Dummies* isn't a novel or play. If you've already dabbled with Zoom's powerful suite of communication tools, then you can jump around to the sections that pique your interest. I've written it in that vein.

If you're only considering hopping on the Zoom train or have only heard about it, then begin with the first three chapters. From there, you'll want to read in a relatively linear manner.

Regardless of where you ultimately start reading, you'll find it helpful to create a new, free Zoom account or log into your existing one at www.zoom.us. You should also download the Zoom desktop client for your computer. Over the years, I have taught myself plenty of new programming languages, applications, and technologies. I have found that getting my hands dirty and doing the exercises myself to be invaluable.

IN THIS CHAPTER

- » Explaining what Zoom's tools do
- » Dissecting the reasons that Zoom grew so quickly
- » Understanding Zoom's competitive landscape

Chapter **1**

Communicating and Collaborating Better with Zoom

What is Zoom anyway? Where did it come from? Was it the result of long-term planning, a eureka moment, or a happy accident? Is Zoom only for large organizations, or can smaller ones benefit from it? And what business problems does Zoom solve, anyway?

This chapter answers these questions in spades. Further, it provides some background information about Zoom, the technologies behind it, and its main competition.

Introducing Zoom

Zoom provides a suite of simple, affordable, powerful, secure, and interoperable communication and collaboration tools. As of this writing, the company's self-purposed mission is to make video communications frictionless.

As you see in this book, Zoom has accomplished its mission in spades. Zoom's management and investors bet the company on the belief that it could build a better mousetrap. With it, people could accomplish more than they could without it. Again, you can check that box. That gamble has paid off handsomely. It has vastly exceeded its early aspirations.

Discovering Zoom's origins

In August 1997, Eric Yuan began working as a software engineer at Webex — one of the first enterprise–videoconferencing companies. Yuan grew his team from ten engineers to more than 800 across the globe. To paraphrase Ron Burgundy of *Anchorman* fame, Webex became kind of a big deal. On March 15, 2007, Cisco Systems acquired the company in a deal worth \$3.2 billion.

At Cisco, Yuan rose to the level of VP of Engineering — a key role at a tech juggernaut. As part of his job, he spent a good chunk of his time talking to Webex enterprise customers about the videoconferencing program. To put it bluntly, many businesses disliked Webex's complexity and general clunkiness. (Apropos of nothing, I felt the same way back then.)

After a few years, Yuan began to doubt whether Cisco would be able to improve Webex as much as its customers were demanding. To boot, other software vendors were starting to catch up. Yuan questioned whether Cisco's management would invest the requisite time and resources required to build a new, better generation of videoconferencing products — one that could easily scale up and down as needed thanks to the rise of cloud computing.

Yuan wasn't guessing; he exactly knew what enterprise customers needed. He envisioned a single, modern app that would seamlessly work on any device: laptop, computer, tablet, and smartphone. Because of his background, Yuan realized that minor tweaks to Webex's legacy code base would not suffice. Rather, undertaking such an endeavor would require a ground-up product rebuild.

Yuan knew that transforming Webex at Cisco would require him to fight many bruising internal battles. After several relatively enjoyable post-acquisition years, the politicking was starting to wear Yuan down. As he told NBC in August 2019, "Every day, when I woke up, I was not very happy. I even did not want to go to the office to work." (Visit cnb.cx/zfd-123 to read the article.)

Yuan predictably left Cisco in June 2011 and took 40 talented engineers with him. Later that month, he founded Zoom Video Communications, Inc. He wanted to refine a concept that he first conceived during the 1990s as a college student in China. Back then, Yuan had to commute ten hours to his then-girlfriend, now his wife. (Read the entire interview at bit.ly/zfd-eric.)

The company launched its flagship Meetings & Chat service in January 2013. Its target customers remained the same from Yuan's Webex and Cisco days: other businesses. By May 2013, more than 1 million people used Zoom products. In March 2019, Zoom officially filed to go public on the NASDAQ. April 18, 2019, marked its first day of trading.

Understanding what Zoom does

Zoom's tools help individuals, formal and informal groups, departments, and even entire organizations communicate and collaborate better. In this way, Zoom falls under the umbrella of technologies often labeled as *Unified Communications* (UC). The term first gained popularity in the mid-1990s. (I'm happy to report that I was there.) In a nutshell, UC describes a collection of integrated, enterprise-grade communication services. Specific examples include

- » **Instant messaging (IM):** Also known as *chat*.
- » **Presence information:** Status indicators that conveys one's availability to communicate.
- » **Voice:** This bucket includes calls or, more precisely, Internet Protocol (IP) telephony.
- » **Audio, web, and video conferencing:** The ability to hold different types of calls with large groups of people.
- » **Desktop sharing:** The ability to instantly see what your peer is doing.
- » **Data sharing:** Interactive whiteboards, annotation, and the like.
- » **Unified messaging:** Integrated voicemail, email, and fax.

You may not have heard of UC before now. Again, though, it's not exactly new. In fact, the idea of using the web to do things such as make audio and video calls is almost as old as the web itself.

The following sidebar explains a bit of history behind some of UC's technical underpinnings. Make no mistake: These pillars remain critical today even if they run seamlessly in the background. Feel free to skip the nearby sidebar, however, if you consider it too much information — or TMI, as the kids say today.

A BRIEF PRIMER ON COMMUNICATING OVER THE INTERNET

You probably have not heard of ARPANET, but you almost certainly use the technology behind it every day.

In the 1960s, the Cold War between the United States and the former Soviet Union was simmering. The two powers nearly destroyed each other during the 1962 Cuban Missile Crisis. Things got very real. In the aftermath of the near debacle, government officials began to wonder how citizens would communicate with each other in the event of a nuclear conflict and tens of millions of deaths.

Against this backdrop, the U.S. Department of Defense launched the Advanced Research Projects Agency. The agency began work on a decentralized network that would, at a high level, address that very question. Launched in 1969, ARPANET represented the first network of its kind. Back then, communication networks were primitive, especially by today's standards. (If Netflix had existed back then, you would not have had any luck streaming 4K videos.)

But how would that network actually work?

Packets

Circuit-based networks are centralized in nature. Examples include traditional telephone systems. In the event of a nuclear war, one strategic missile would render the entire network inoperable. What's more, they involve a great deal of manual intervention. That's why switchboard operators manually patched through calls to recipients beginning in 1878. Brass tacks: The ARPA folks knew that a circuit-based network ultimately wouldn't meet their objectives.

Remember that even the most powerful networks of the time could not transmit even modest amounts of information in one big chunk. To overcome this obstacle, ARPANET engineers and scientists relied upon a concept called *packet switching*. Developed by American computer scientist Paul Baran in the early 1960s, the basic idea involved automatically breaking down data sent over digital networks into their smallest possible components: packets. The network would disseminate these packets without any human intervention. For more on this arcane yet fascinating subject, check out Katie Hafner's 1998 book *Where Wizards Stay Up Late: The Origins of the Internet* (Simon & Schuster).

To this end, ARPANET was downright revolutionary. It represented the first wide-area packet-switching network. Ever. Even though today's telecommunications networks are

far more robust than they were 50 years ago, packet switching remains a core tenet of today's Internet. And so are protocols.

Protocols

Think of protocols as common languages that allow devices, networks, computers, and servers to communicate with each other. For example, all websites begin with *http*. That's no coincidence. The acronym stands for *Hypertext Transfer Protocol*. Among other things, *http* defines how the web formats and transmits messages, images, web pages, and much more. Email also relies upon several essential protocols.

As it relates to some of Zoom's suite of services, two protocols are especially important:

- **H.323** provides multimedia communication standards for equipment, computers, and services across packet-based networks. It specifies precisely how to transmit real-time video, audio, and data. H.323 is popular with IP-based videoconferencing, Voice over Internet Protocol (VoIP), and Internet telephony.
- **Session Initiation Protocol (SIP)** initiates, maintains, and terminates real-time sessions. Typical applications include voice, video, and messaging.

Bottom line: Without packets and protocols, you wouldn't be able to send an email or view a web page, much less make audio or video calls from your devices.

Reviewing the numbers behind Zoom's rapid ascent

Zoom has been a popular enterprise tool since its inception. Case in point: In December 2019, 10 million people regularly used Zoom's tools. Most CEOs only dream about this level of success. Along the way, Zoom has landed many prominent customers, including

- » The Nasdaq stock market
- » Ridesharing behemoth Uber
- » Delta Airlines
- » Harvard University
- » High-end audio vendor Sonos

Of course, the preceding list consists of large organizations and/or multibillion dollar companies. You may be thinking that Zoom lies outside of the reach of your local law firm, dentist's office, or web-design shop.

And you'd be spectacularly wrong.

For a variety of reasons that I cover later in this chapter, Zoom has long appealed to the smallest of startups and mid-sized businesses. (See the section "Reaping the Benefits of Zoom's Tools.")

Case in point: My friend Andrew Botwin runs a successful executive coaching shop. His company is the very definition of a small business. Like me, he gladly pays a modest annual fee for Zoom's Pro Meetings & Chat plan. (Chapter 2 covers Zoom's specific offerings, plans, and prices, in far more detail.) As Botwin told me, "Zoom allows me to conduct meetings with an in-person type of feel. It also lets me easily share my computer screen with my clients."

Zoom's industry penetration runs the gamut: healthcare, retail, higher education, manufacturing, finance, nonprofit — you name it. As for employer age, companies both young and old have jumped on the Zoom bandwagon. For years, thousands of businesses have regularly used Zoom's tools to communicate and collaborate with their employees, customers, prospects, and partners.



TIP

To read more about how a wide array of companies uses Zoom in innovative ways, go to bit.ly/zm-cust.

All of this is to say that, as a company, Zoom was doing extraordinarily well before a global pandemic shook the world to its core.

Assessing how COVID-19 changed Zoom's trajectory

Starting in early February 2020, the company's floodgates began to blow open. In a matter of weeks, oodles of businesses from mom-and-pop stores to large enterprises started getting Zoom religion. Examples of rapid Zoom adoption abounded during this unprecedented time. Here's one of them.

On March 19, 2020, California governor Gavin Newsom issued a stay-at-home order for his state's citizens. As a result, thousands of California-based businesses needed to adapt to a new world — and fast. One such shop was Reeder Music Academy based in Danville, California. Within a week, the 28-employee company migrated roughly 70 percent of its classes online using — you guessed it — Meetings & Chat. Thousands of small businesses in just one state would have immediately shuttered were it not for affordable videoconferencing tools such as Zoom.

A VERY BRIEF HISTORY OF CORONAVIRUS

In late 2019, tens of thousands of Chinese citizens mysteriously contracted a severe respiratory illness and started dying. People with heart disease, diabetes, obesity, and generally weak immune systems were particularly susceptible to contracting it. Ultimately dubbed coronavirus, the outbreak quickly escalated to nightmarish proportions and every country in the world. On March 11, 2020, the World Health Organization did the inevitable and declared COVID-19 a global pandemic.

Since that time and as of this writing, the numbers have been nothing short of grim: According to Johns Hopkins University, more than 500,000 people have died across the globe. More than five million others became infected but have since recovered. Epidemiologists almost unanimously agree that a second wave is coming in the fall of 2020.

When coronavirus hit the United States in earnest, it evoked images of the 1918 Spanish flu. To minimize the carnage and stress on their healthcare systems, state governments — some far more reluctantly than others — issued stay-at-home orders.

COVID-19 did not just leave more than 100,000 dead bodies in its wake. It wrought psychological, social, and economic devastation as well. With respect to the latter, tens of millions of Americans lost their jobs. U.S. unemployment spiked to nearly 15 percent in April 2020. Most workplaces, parks, restaurants, schools, retail stores, and places of worship closed. Musicians postponed concerts, comedians canceled shows, and professional sports as the world knows them ceased to exist.

Against this backdrop, hundreds of millions people needed to find new, virtual ways to work and, more than that, recapture some semblance of normalcy. In each case, Zoom was the most popular choice.

And Zoom adoption quickly spread to decidedly non-corporate environments. As but one example during the height of frenzy, teachers from more than 90,000 schools across 20 countries began educating their students from their homes via Meetings & Chat. Beyond professional reasons, people needed a way to connect with their family and friends. Again, Zoom answered the bell.

To say that Zoom's user numbers exploded over a three-month period would be the acme of understatement. By the end of March 2020, more than 200 million people participated in both free and paid Zoom meetings every day. (Industry types refer to this number as *daily active users*, or DAUs.) By way of comparison,

just four months earlier, Zoom had averaged approximately 10 million DAUs. The 2,000 percent increase was downright stupefying.

And Zoom’s user growth didn’t stop there.

During its first fiscal quarter of 2020 (ending on April 30), Zoom reported that its DAUs had climbed to 300 million — a 50 percent jump from only a month earlier. Many of those users decided to become proper customers. Company revenue in that quarter grew by an eye-popping 169 percent. Analyst Richard Valera of the asset-management firm Needham called the results “incredible.” (Read more about Zoom’s most recent financial results at on.wsj.com/2Y0RJjz.)

Fast-forward a few weeks. As of July 1, 2020, Zoom’s market capitalization exceeded a staggering \$73 billion. If you had bought Zoom stock just a few months earlier, you’d be ecstatic.

It wasn’t all puppy dogs and ice cream for Zoom, though. On the flip side, its viral consumer growth has led to some unexpected issues and a slew of bad press. (I cover those legitimate concerns in Chapter 9.) For now, however, rest assured: Zoom’s management has taken its unforeseen challenges very seriously.

Reviewing Zoom’s industry awards and recognition

Beyond Zoom’s outrageous growth, the company has garnered plenty of recognition and even won some prestigious industry awards. Highlights include

- » **Leader in Gartner 2019 Magic Quadrant for Meeting Solutions:** You may not be familiar with the world of enterprise software. Trust me, though, vendors expend an enormous amount of energy trying to land in the vaunted Magic Quadrant.
- » **2019 Inc. 5000 list of America’s fastest-growing private companies:** Employers that make this list are doing something right.
- » **Glassdoor Second Best Place to Work in 2019:** Employees tend to like working at Zoom. This accolade and its attendant publicity help the company attract, retain, and motivate highly skilled workers.

MY ZOOM BONA FIDES

As a reader, it's fair to ask about my experience using the tool about which I am writing.

By way of background, I've been using videoconferencing tools for two decades. (I'm no spring chicken anymore.) Over the years and in no particular order, I've played with Skype, Webex, Join.me, and Adobe Connect. Thanks to Zoom, though, I have largely said *adios* to those applications. (I return to them later in this chapter in the section "Main competitors.")

For the last few years, I've used Zoom primarily for individual and group videoconferencing, screen-sharing, and webinars. What's more, because I wear a number of different hats, I've become a convert on a several levels. First, as an independent writer, speaker, trainer, and advisor, I frequently hold Zoom meetings with my clients and prospects when in-person meetings just aren't possible. Second, during my days as a college professor, I engaged with my students on a near-daily basis via Zoom — and Slack as well, to be fair. (If you're not familiar with Slack, check out my book *Slack For Dummies*.)

That's not to say that I don't enjoy real-world interactions. I most certainly do. Again, though, physical meetings aren't always possible, especially with online students half-way across the globe.

Analyzing Zoom's competitive landscape

When it comes to videoconferencing apps right now, Zoom is unequivocally the prettiest girl at the ball. To be fair, though, it's hardly the only one.

Before continuing, a disclaimer is in order: Contending that one tool is inherently and objectively "better" than another is silly. (Try telling a long-time Samsung user that she's missing out on the far cooler iPhone. See how that goes.) So much hinges on personal preferences. For example, say that you're a die-hard fan of BlueJeans. In this case, no one will convince you that you ought to use Zoom — and that includes yours truly.

Still, consider the following two types of software vendors:

- » **Group A:** Large companies that dabble in many fields. Examples here include Microsoft, Oracle, Adobe, SAP, and Amazon.
- » **Group B:** Smaller outfits that specialize in one specific type of application. Examples here include Zoom, Slack, and BlueJeans.

Generally speaking, the Davids in Group B have historically tended to more quickly innovate and respond to their customers than the Goliaths in Group A. This claim is especially valid over the past 15 years. Precisely because of their laser focus, boutique firms often produce better wares than their larger brethren do. Scrappy upstarts are almost always better at keeping their eyes on the prize.

Main competitors

Table 1-1 provides a list of Zoom’s main contemporary rivals.

TABLE 1-1 Mainstream Videoconferencing Tools

Name	Description
Cisco Webex	Born in early 1995, Webex was one of the first web-based videoconferencing tools. Fast-forward to March 2007. Cisco acquired it for \$3.2 billion. Over the years, plenty of products have surpassed Webex in terms of popularity and functionality. At the risk of being a bit harsh, asking sometime to join you via Webex today is tantamount to sending an email from an America Online (AOL) address. It may still technically work, but you probably won’t score many points with others by suggesting that they use it for your upcoming videoconference.
Vonage	Founded by Jeff Pulver in 1998, the company was one of the pioneers of Voice over Internet Protocol (VoIP) and exceptionally popular back in the days of land-lines. Fun fact: I worked on a consulting project at its headquarters in the mid-2000s.
RingCentral	Born in 1999, the company remains among the UC leaders in terms of revenue and subscriber seats. Now publicly traded, its market capitalization is roughly \$24 billion as of early June 2020.
Skype (consumer version)	Initially released way back in August 2003, at one point nearly 700 million people used the service. After acquisitions first by eBay and then by Microsoft, Skype has lost some steam. Plenty of observers and former employees say that the company squandered its opportunities. (For more on this subject, see cnb.cx/zoom2-ps .)
Skype for Business	Formerly known as Lync, Microsoft rebranded it as <i>Skype as Business</i> . (Yes, the regular consumer-grade version of Skype is alive and well.) Much like Google, Microsoft supports a bevy of related collaboration tools.
Amazon Chime	Amazon launched its foray into the crowded space in July 2017. Chime lets users meet, chat, and place business calls inside and outside your organization.
BlueJeans Meetings	BlueJeans started in 2009 and offers similar services to Zoom. Remarkably, in its first 75 days, the company landed 4,000 subscribers from 500 firms. Not too shabby.
GoToMeeting	Initially released in July 2004, the tool has evolved over the years and still sports a loyal user base. At one point, I paid for it.

Name	Description
Zoho Meeting	The company released its offering in 2017. It serves as part of its suite of productivity tools.
Join.Me	Now owned by parent company LogMeIn, Join.Me still sports some prominent customers. I used it for a long time before switching to Zoom.
Fuze	Formerly known as ThinkingPhones, the videoconferencing company also focuses on enterprise customers.
Google Meet	To paraphrase the iconic <i>Simpsons</i> character Troy McClure, you may remember this tool as an original feature of Google's ill-fated social network Google+. Hangouts became a standalone product in 2013. At that time, Google also started integrating features from Google+ Messenger and Google Talk into Hangouts. If all of these related products seem to overlap and strike you as a tad confusing, trust your judgment. In this way, Google resembles its rival Microsoft.
UberConference	Founded in 2012, the tool sports a clean, elegant design.
Facebook Messenger Rooms	Launched in May 2020, Messenger Rooms lets people join Facebook group video calls even if they abstain from using the social network, as I do.
Intermedia AnyMeeting	AnyMeeting launched in 2011 and survived as an independent entity until September 2017 when Intermedia gobbled it up and rebranded it.
Adobe Connect	Adobe Connect is the umbrella term for former Macromedia products that the company acquired and rebranded. The linages of these products trace back to the early 2000s.



TIP

For a useful chart that compares many of these tools, visit bit.ly/vc-compare.



TIP

Say that your organization suddenly adopts Zoom. If you've used any of the tools listed in Table 1-1, odds are that most employees will pick up Zoom relatively quickly.

Slack and Microsoft Teams

Table 1-1 intentionally omits two prominent collaboration tools: Slack and Microsoft Teams. To be sure, both applications allow users to hold video calls. I should know because I regularly use them. Still, it's misleading to call Slack and Microsoft Teams videoconferencing tools.

Sure, Slack and Teams both let users hold multiperson videoconferences and share their screens. If you think that that's the sum total of what those programs can do, though, then you're sorely mistaken. You're severely underestimating what they can do. It's like using your smartphone only to make phone calls or your Lexus convertible for the sole purpose of holding your coffee flask, to paraphrase one of my favorite jokes by the erudite comedian Gary Gulman.

Why today's breed of videoconferencing tools crushes its ancestors

It's important to remember that many popular, first-generation VoIP and videoconferencing tools have disappeared. (For an interesting read on the history of the technology, see bit.ly/vcz-hist.) Today's major players benefit from many advantages that their predecessors lacked:

- » **Better broadband availability:** Not that long ago, most people dialed up via modems and were lucky to connect to the Internet at 56k per second. In large part, you can thank better pipes in the form of fiber-optic cables.
- » **More robust networks:** Cellular network technology is a far cry today from 20 years ago. This trend will only intensify as carriers, such as AT&T and Verizon, start rolling out 5G.
- » **Far cheaper data-storage costs:** Companies such as Zoom can store a virtually unlimited number of 400-megabyte (MB) customer videos because it's inexpensive to do so. It wasn't always that way.
- » **Smartphones:** iPhones and Androids destroy BlackBerrys. There. I said it.
- » **Application programming interface (APIs):** These powerful tools allow developers to easily stitch together different applications. I explain more about this concept in Chapter 7.
- » **The widespread availability of cloud computing:** Companies can spin up new services in a fraction of the time required during the late 1990s.
- » **Machine learning and artificial intelligence:** Software is constantly improving its speech-recognition and transcription capabilities. Yeah, Siri remains pretty dumb, but it's getting smarter all the time.
- » **Powerful repositories of open-source software:** Code repositories help developers build all sorts of cool things — including videoconferencing. For some free alternatives, check out <https://red.ht/2Jqjxz>.

For these reasons, contemporary videoconferencing applications such as Zoom represent a quantum leap over first-generation ones. It's not even close.

It's no coincidence that Zoom's suite of tools works so well and reliably. In large part, Zoom's rock-solid performance stems from how its bright founder and engineers deliberately chose to build it. In other words, Zoom embraced powerful and contemporary technologies from the get-go — not as an afterthought. Because of its greenfield approach and intelligent design, Zoom's offerings remarkably support a raft of concurrent users without a degradation in quality. For more information on this subject, see the nearby sidebar “Looking under Zoom's hood.”

LOOKING UNDER ZOOM'S HOOD

Zoom works so well because it made intelligent choices about specific technologies and design:

- **A distributed architecture:** Early videoconferencing vendors built their wares in a relatively centralized and resource-intensive manner. For example, say that you were in New York in 2005 calling a coworker in the same building with one of those legacy tools. Your app may have to route the call through a data center all the way in Ireland. By contrast and like many newer tech companies today, Zoom has embraced a distributed configuration. This deliberate design choice means that the app automatically directs users to the nearest of the 13 data centers in its vast network. (The company continually invests in its data centers.) As a result, Zoom provides its customers with greater reliability and reduced call latency.
- **Multimedia routing:** Early videoconferencing systems tended to use Multipoint Control Unit (MCU), a resource-intensive streaming method that restricts call quality and scalability. For its part, Zoom uses a more contemporary and efficient streaming method called *multimedia routing*.
- **Multi-bitrate encoding:** Zoom recognizes that one size doesn't fit all. Calling your friends from home via your laptop and your ultra-high-speed Internet connection is a far cry from using your smartphone on your carrier's data plan. Zoom automatically adjusts your call quality based on the capabilities of your hardware devices and Internet Service Provider (ISP).
- **Application-layer service quality:** Zoom wisely built a layer into its technology stack specifically to optimize video, audio, and screen-sharing. At a high level and similar to multi-bitrate encoding, this layer accounts for users' different devices and bandwidth levels.
- **Intelligent use of data and metadata:** Zoom is able to route data on its network more efficiently than legacy videoconferencing tools could. There's plenty to unpack here, but a key point is that Zoom makes extensive use of call metadata. (*Metadata* is simply data about data.) For example, Zoom knows the device and location of all call participants.
- **Cloud computing:** Zoom relies heavily on cloud computing to deliver the goods. For hosting, Zoom engages industry leader Amazon Web Services (AWS). More than 1 million AWS customers know that they can easily and automatically scale up in the face of rapid and unexpected spikes in demand — in other words, precisely during events such as COVID-19.

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Consider the following two scenarios:

- **Scenario A:** You're making a videocall to your friend on your Android phone with your AT&T data plan in a remote area.
- **Scenario B:** An executive hosts a multiperson videoconference via her laptop in corporate headquarters with extensive bandwidth through its ISP.

In those scenarios, Zoom will automatically allocate more resources to the call in scenario B.



TECHNICAL
STUFF

Visit bit.ly/zm-stack for more on the specific technologies that Zoom uses to make the magic happen.

Zoom's current market share

Where does Zoom rank in comparison to its competitors?

It's a fair question to ask. After all, you don't want to invest in a niche tool that may quickly disappear.

The answer is a little complicated.

In April 2019, Tom Eagle of the respected firm Gartner Research told the website CIO Dive that Zoom is "displacing some of these other giant vendors." Zoom's rise has carved out market share from Microsoft, Cisco, and some of the other established behemoths listed earlier in this chapter in Table 1-1. (Visit bit.ly/ciodive-z to read the piece.) Back then, estimates of Zoom's market share ranged from about 15 to 20 percent.

Of course, answering that question amid the rapid adoption taking place is now virtually impossible. Blame COVID-19 for that difficulty, among many others. Still, it's inarguable that Zoom's market share has grown over the past year. How much is anyone's guess, but the increase is probably substantial.

Exhibit A: In March 2020, Academy Award-winning actress Reese Witherspoon of *Legally Blonde* fame conducted a highly unscientific Twitter poll on individuals' preferred work-from-home (WFH) tool. Figure 1-1 displays the results.

It doesn't take a survey expert to poke holes in Witherspoon's informal methodology — not that she's a scientist. The results, however, offer additional evidence that Zoom's ascension is sudden and real. The natural question is why.

FIGURE 1-1:
Reese Witherspoon's informal Twitter poll on video-conferencing usage.



TIP

Every year, videoconferencing hardware maker Owl Labs creates a slick and informative report on the state of the industry. The 2019 version of the survey includes responses from more than 1,000 U.S.-based professionals. (You can access it by visiting bit.ly/zoomowl.) Short version: The vast majority of Zoom's customers love using it.

Reaping the Benefits of Zoom's Tools

Zoom's suite of tools isn't hurting for powerful features. In other words, it allows both employers and their employees to communicate and collaborate better in a number of ways.

The company sells a number of related, but distinct, offerings. (See Chapter 2 for more on this topic.) In this section, though, I focus on the overall benefits of Zoom's products and services. As such, the following benefits don't apply universally to all of Zoom's solutions, much less equally. For example, you can't call others via Zoom Video Webinars. For its part, Zoom Phone does not let you hold webinars. On a general level, though, the advantages that I list hold up reasonably well when viewing the entire Zoom suite.

Zoom solves some of today's key communications problems

I'll start with the elephant in the room: Zoom helps people communicate and collaborate far better than when they rely upon text-based messages alone. Specifically,

Zoom and its ilk provide key context to everyday communications, thus minimizing the chance for misunderstandings and outright blunders.

That statement may seem obvious and impersonal. It may even invoke a “Duh!” I’ll bet, though, that at some point you sent a colleague, manager, or friend an email or text message that confused her. I’ll also wager that someone has befuddled you with a vexing email as well. As I wrote in my 2015 book *Message Not Received: Why Business Communication Is Broken and How to Fix It* (Wiley), stripping out essential context is a fundamental limitation of text-based communication. Put differently, when it comes sending to asynchronous messages to others, the fleas come with the dog.

When people actually engage in real-world conversations, they dramatically increase the odds that they are truly communicating. They allow others to immediately ask questions — and vice versa. Remember, the word *communicate* means “to make common.” It is often hard to achieve that elusive goal exclusively via text messages.

Zoom makes people more productive

Say that you’re experiencing a problem on your computer. For example, a program or your operating system is acting funky, to use a technical term. You write a long email to the vendor’s technical support team detailing the problem. Maybe you even include all the relevant information.

Still, the support rep doesn’t seem to get it. He responds, and the two of you go back and forth over the course of days or, heaven forbid, weeks. Your frustration level rises. Drink in hand, you start venting on social media.

Odds are that the rep isn’t incompetent or evil. He’s just not picking up what you’re putting down. If only you had a way to show him exactly what’s happening in a synchronous manner, then he could try to solve your problem.

Again, thanks to Zoom, you most certainly do. I have used it and its predecessors hundreds of times to share my screen and quickly diagnose technical issues. Other times, I have simply wanted to get someone’s real-time input on a book chapter, blog post, or slide for one of my presentations.

NONVERBAL CUES MATTER . . . JUST NOT AS MUCH AS YOU MAY THINK

You may have heard the oft-cited statistic that roughly 90 percent of communication is nonverbal.

The infamous number stems from *Silent Messages*, a 1971 book by Albert Mehrabian (Wadsworth Pub. Co). The text represented the culmination of Mehrabian's research into human communication patterns with his colleagues at the University of California, Los Angeles. Mehrabian looked at the language that salespeople used and whether prospects understood them. At a high level, he found two things.

- People often communicate in inconsistent or contradictory ways. (No shocker there.)
- In one study, Mehrabian asked his subjects to quantify how much of the salespersons' credibility stemmed from their use of single, spoken words. In the aggregate, that number was a mere 7 percent.

This statistic begs the question: What about the other 93 percent?

The answers are gestures and tonality. Collectively and in certain contexts, these two attributes can accurately convey meaning and emotions far more than the words themselves.

As it often happens, however, the mass media widely circulated that 7 percent figure without the requisite context. Many people started taking that number as gospel. (I have been guilty of it as well.)

A good deal of subsequent research has debunked the 7 percent myth. For example, in 2007, David Lapakko of Augsburg College published a study called "Communication is 93% Nonverbal: An Urban Legend Proliferates."

Tone of voice and body and facial expressions certainly matter, but probably not to the extent that most people think.

Zoom just works

Zoom's Meetings & Chat and Video Webinars services are especially easy to set up, use, and manage. If you know how to operate a computer, tablet, or smartphone, then you can be up and running in minutes. For their part, Zoom Rooms and Zoom Phone require some assembly to proceed. In all cases, though, you don't need to be a coder, a techie, or a hardware expert to use Zoom's most popular services.

Zoom's tools work well on computers, tablets, and smartphones. That's not to say that you can perform every task on every type of device. For example, Meetings & Chat allows up to 49 people to concurrently their video feeds in a 7-x-7 grid. (See bit.ly/zm-ag for a cool animated gif of this grid in action.) If you think that you'll be able to clearly see those 49 images on your smartphone, think again. Also, showing all those individuals' screens will tax your laptop's central processing unit (CPU) and slow down your machine. Put simply, your computer and its operating system may not be up to the task. Ditto if you're concurrently running ten demanding software programs in the background.



Your device's CPU is its main processor. It is the electronic circuitry that executes instructions of computer programs. Without a CPU, your computer is effectively a useless, expensive, and heavy paperweight.

These disclaimers aside, though, Zoom's tools generally just work. If you're of a certain age, then you may remember when mainstream videoconferencing applications were downright janky.

Zoom is affordable

Say that you're excited to start using Zoom, but the accountant in you wonders how much it costs.

The answer depends on the specific plan that you choose. (Chapter 2 covers Zoom's different plans and products in far more detail.) Enterprises with tens of thousands of employees will certainly pony up more than your indie record store owner will.

Not sure about what Zoom can do for you? Fine. Give it a spin for free. For now, suffice it to say that your employer need not spend tens of thousands of dollars on Zoom. What's more, it doesn't need to lock itself into expensive and rigid multi-year deals. Upgrade, downgrade, leave, and return whenever you like. In terms of contracts, think Netflix, not AT&T or Verizon.

Zoom is flexible and interoperable

In the past, videoconferencing and collaboration tools didn't always play nicely with one another. For example, Webex may have worked well for Walter, a Windows 7 user running Internet Explorer. His colleague Donnie, however, wasn't so lucky using his Mac to run the Mojave operating system and Safari as his web browser. In the past, many conference calls and webinars reverted to a comedy of errors not unlike the one portrayed in this classic YouTube video: bit.ly/cc2-zoom. Half an hour after the scheduled start time, a dozen people were still restarting their computers and finagling with their devices' audio and video settings.

Fortunately, and as Zoom users know, those days are gone.

Zoom runs on anything. The company has built a flexible and interoperable solution for meetings, phone, webinars, and chat. Say that you're holding a webinar from your desktop application. Fifty people attend, but they connect in different ways and on different types of devices. Some want to watch via their web browser. Others are on different smartphones and tablets. The attendees also run the gamut: Windows, Android, iOS, MacOS, and even Linux.

It gets even better.

Zoom works seamlessly with more than 200 other third-party apps. (I cover this subject in Chapter 7.) Here are a few examples:

- » You use Microsoft Outlook and want to easily add a Zoom meeting to an existing event. You also want to prevent people from calling you when you're busy. Check.
- » Like millions of progressive-minded folks, you're a passionate fan of the collaboration tool Slack. As such, you want to automatically launch Zoom calls from the Slack desktop client. Check.
- » Your company uses Salesforce as its customer-relationship management (CRM) system. You want to start an instant Zoom meeting from a Salesforce event, lead, or contact page. Check.
- » A college professor wants to hold virtual office hours with her students in Canvas, her university's learning management system (LMS). Check.

I could go on for hours. Brass tacks: Zoom plays nicely with the other arrows in your quiver.

Zoom stays in its lane

A man's got to know his limitations.

— Clint Eastwood as “Dirty” Harry Callahan, *Magnum Force*

On a related note, Zoom doesn't attempt to replace essential productivity tools that billions of people have used for years. Zoom enhances other applications and systems; it does not supplant them.

Even Zoom power users continue to rely upon email and other communication tools on a daily basis. Because of Zoom, though, they don't use those tools quite as much as they did before. For example, you may decide to chat with a colleague

via text or voice over Zoom rather than exchange a series of emails in Outlook or Gmail. (Kudos for seeing the light.) Slack users can call each other without Zoom. Those who want to grant others control of their screens, however, will have to use Zoom or another tool. (Slack does not include this functionality.)

Zoom doesn't try to be all things to all people. It won't act as your spreadsheet, word-processing program, or CRM system. Zoom will, however, augment these applications. (I revisit this subject in Chapter 12.)

Zoom lets people rediscover their humanity

To state the obvious, Zoom's customers realize significant benefits from using it. Why else would they pony up for monthly and annual subscriptions? Fair enough, but foolish is the soul who believes that Zoom is a suite of apps that only businessfolks can use. In fact, untold numbers of people frequently use Zoom products for decidedly nonprofessional purposes. (Chapter 17 includes some of them.)

I'm a perfect example.

In early March 2020, I was practicing social distancing like billions people across the globe. I enjoy my space and downtime as much as the next guy. Still, after a few weeks, I craved some human interaction. I held a few virtual happy hours via Meetings & Chat with five of my college friends. No, it wasn't the same as getting beers with them in person and playing hoops, but it was certainly more fun than our normal, audio-only call.

- » Connecting with others in interesting ways
- » Staying healthy and active

Chapter **17**

Ten Ways to Socialize via Zoom

As I write these words in June 2020, the global pandemic is in full force. At some point, things will go back to normal — although most likely in dribbles. Zoom’s suite of tools, however, will remain vital work and educational staples for the foreseeable future.

Make no mistake, though: As I cover throughout this book, hundreds of millions of people are using Zoom in remarkable and innovative ways every day. Weddings, bar and bat mitzvahs, birthday parties, dance parties, and poker games have all taken place on Zoom.

This final chapter presents some of them.

Cooking and Eating Meals

Restaurants typically run on slim profit margins — often along the lines of 5 percent. Operating at 25-percent capacity doesn’t cut it. To this end, many have begun holding Zoom cooking classes and online tastings. For more on this subject, see <https://bit.ly/zfd-cook>.

Visiting Sick Friends and Family Members

Faced with travel restrictions, many people are “visiting” their loved ones confined to hospital beds in Zoom. No, it’s not the same as the real thing, but checking in on a dear friend or family member via Zoom beats a simple phone call.

Dating

With so many bars, restaurants, and coffee shops closed, where do two people safely meet? How about on Zoom? See bit.ly/zfd-dating for more information on this subject.

Sharing a Few Drinks over Happy Hour

I’ll cop to doing this a few times with my college friends. Again, I’d prefer to talk trash with them in person. Left with no in-person alternative, though, Zoom more than serves this purpose.

Playing Brick-and-Mortar Games

I asked a few of my former students if they used Zoom for social gatherings. Here’s one particularly colorful response: I play trivia games with my family in England every Saturday via Zoom.

Sure, some games translate better than others, but you’d be surprised at how many games work reasonably well on Zoom. See bit.ly/zfd-games for more information.

Playing Video Games

You may not be able to use Twitch to play your favorite video game. If not, then give Zoom a shot. Visit bit.ly/zfd-games2 for more information here.

Watching Movies and TV Shows

As a kid, I would routinely watch *Jeopardy!* with my family. I'd sometimes go an entire show without answering a single question correctly.

Although I live across the country from my family, I can now relive that experience with them via Zoom. (At least now I can answer about 40 percent of the questions correctly.) In fact, plenty of folks use Meetings & Chat to view movies and binge-watch series. (See bit.ly/zfd-netflix for more information on this subject.)

Performing Stand-Up Comedy

Few things beat the feeling of laughing in unison with complete strangers as a comedian tears it up. In the midst of a pandemic, fans cannot see Gary Gulman or Neal Brennan live. Until then, however, I might watch some comedians perform via Zoom. Learn more at bit.ly/zfd-com.

Staying Fit

Since the age of 18, I have religiously gone to the gym. Broken fingers, the cold, and work-related commitments haven't stopped me from getting my sweat on. Yeah, I'm a gym rat — and plenty of people can relate.

Left without physical gyms, many people began working out over Zoom. For a quick video on this burgeoning trend, see bit.ly/zfd-gym.

Holding Miscellaneous Parties

A Zoomie told me that her in-laws held a weekly dance party on Zoom. Virtual graduations, birthday parties, and other formerly physical gatherings are taking place via the world's most popular videoconferencing tool.

Index

The full index for Zoom For Dummies provided as a preview. This excerpt includes pages v-xi, 1-28, and 355-377.

A

account

- adding users to, 60–61
- creating new Zoom account, 48–52
- creating personal Zoom account, 339
- deactivating existing accounts, 61–62
- deleting existing users from, 62–63
- management of, 59–67
- unlinking users from, 63–64

account admins, reporting for, 185

account owners, reporting for, 182–185

acquisitions and partnerships, potential for in Zoom's future, 332

Active Hosts, as type of usage report, 183

Active Speaker layout, 81

Add Call, description of icon for in-call options for Zoom Phone calls, 308

add-ons

- audio conference options, 37
- cloud recording, 37
- costs of, 39
- large meetings, 37
- webinars, 37, 38, 44, 208
- Zoom Phone, 44, 294
- Zoom Rooms, 37

admin, as default user role, 67

Adobe Connect, 19

Advanced Encryption Standard (AES), 38

advanced features, exploration of, 340

Advanced Research Projects Agency (ARPA), 12

AI (artificial intelligence), 327–328

Allow Participants to Rename Themselves, as additional meeting option for hosts, 115

Allow Participants to Unmute Themselves, as additional meeting option for hosts, 115

alternative hosts, 73, 218

Amazon

Amazon Alexa, 330

Amazon Chime, 18

AmazonBasics laptop stand, 93

as benefitting from network effects, 317

as confronting security and privacy challenges, 274

as encouraging third-party developers to create their own apps, 191

on facial recognition, 333

as fixated on cutting-edge technologies, 326

as having to manage double-edged sword of sudden, massive growth, 247

troubles of in meeting customer demand, 249

Amazon Web Services (AWS)

uptime percentages with, 41

Zoom's hosting of cloud computing via, 21

animated gifs, adding of to messages, 144–145

annotating/annotation tools

disabling attendee annotation in webinar, 230–231

more information about, 114

in webinars, 228–229

whiteboarding, 11, 34, 40–41, 105, 107, 108, 112–113

with Zoom, 40–41

AnyMeeting (Intermedia), 19

Apple

apps of as connecting with those of third-party, 204

as encouraging third-party developers to create their own apps, 191

as fixated on cutting-edge technologies, 326

iPhones, 250

Siri, 329

application programming interfaces (APIs), 20, 192

application-layer service quality, Zoom's use of, 21

apps. *See also specific apps*

- browsing for Zoom apps, 194–195
- as compared to integrations, 223
- email as killer business app of last 25 years, 320
- enhancing Zoom with third-party apps, 189–192
- extensions, as diluted apps, 191
- installing Zoom app, 196–197
- limiting apps that members can install, 200–202
- managing your Zoom apps, 195–202
- recommendations for, 202–203
- restricting of in Meetings & Chat, 199–200
- searching for specific Zoom app, 193
- treading lightly with, 204
- uninstalling Zoom app, 197–198
- viewing your organization’s installed apps, 199
- Zoom App Marketplace, 192–195, 202, 348, 351, 353

Zoom as outsourcing app development, 191

AR (augmented reality), 326

ARPA (Advanced Research Projects Agency), 12

ARPANET, 12–13

artificial intelligence (AI), 327–328

Ask to Start Video, as meeting participant action, 100

attendee

- allowing attendees to upvote others’ questions in webinar, 232–233
- answering questions of in webinar, 231–232
- Attendee Report for webinars, 239
- dismissing questions of in webinar, 231
- interacting with in webinars, 230
- options for in webinars, 227
- reopening dismissed questions of in webinar, 232
- responding when attendees raise their hands in webinar, 233–234
- specifics of role of in webinars, 222–223

Attendee Report, for webinars, 239

Audio, description of icon for in-call options for Zoom Phone calls, 308

audio conferencing, as communication service, 11

Audio Settings, description of icon for attendee (on webinars), 227

audio transcriptions

- conditions for viewing, 330
- enabling of, 77–78
- as feature for augmenting meetings, 75
- options for, 96–97
- viewing of, 116–117

audio/visual (A/V) system, using Zoom with, 41

augmented reality (AR), 326

authentication

- two-factor authentication (2FA), 260–264, 338
- of user profiles, 264–267

away, as Meetings & Chat status, 131

AWS (Amazon Web Services)

- uptime percentages with, 41
- Zoom’s hosting of cloud computing via, 21

B

background

- recommendation for, 94
- virtual backgrounds, 97–99, 352

backup communications tool, importance of, 341

bad actors, 49, 74, 245–246, 264, 274. *See also* hackers; trolls

Bailenson, Jeremy (author)

- WSJ* op-ed on nonverbal overload, 342

Ballmer, Steve (CEO of Microsoft), 250

Baran, Paul (computer scientist), 12

Barrenechea, Mark (CEO of OpenText), 98

Barrett, Kerry (media expert), 94

Basic plan, 34, 52–53, 60, 67, 164, 208

BlackBerry, 20, 43, 250, 325

Blackboard, Zoom as integrating with, 348

Block Contact, as Meetings & Chat contact action, 128

blog, on Zoom, 348–349

Bluejeans, 17, 18

Botwin, Andrew (business owner), 14

Box file sharing option, 146, 189

breakout rooms

- enabling of, 76–77
- as feature for augmenting meetings, 75
- use of, 102–105

Brightline, cMe2 Huddle Room Light, 291, 292
bring your own device (BYOD), 319
bug fixes, 257
business hours, setting of on Zoom Phone, 305
Business Meetings & Chat plan, 34, 35–36, 39, 235

C

calls

accessing recorded calls, 310–311
caller ID option, 312
display of missed calls, 311
making calls with Zoom Phone, 293–312
performing in-call actions, 307–308
placing outbound calls with Zoom Phone, 306
receiving inbound calls with Zoom Phone, 306–307
as separating inbound and outbound calling numbers, 301
viewing call history and returning calls, 311
Zoom as not defaulting outbound calling plans to users, 301

Canvas, Zoom as integrating with, 27, 348

CAPTCHA, Zoom's use of, 255

Captus Systems, 290

Carlyle, Thomas (philosopher and writer), 192

Carr, Nicolas (author)

The Shallows: What the Internet Is Doing to Our Brains, 322

Carter, Rebekah (reporter for *UC Today*), 312

cellphone market, history of, 250

Chambers, John (former CEO of Cisco Systems), 260

channels

browsing and joining existing public channels, 165–166
compared to group chats, 164, 174
comparison of to similar Zoom features, 174
converting channel types, 168–169
creating new channel, 165
deleting channels, 167–168
getting started with, 173
inviting other members to existing private channel, 169–170

leaving channels, 168
posting messages in, 172
quickly setting notifications for, 176–177
referencing channels in messages, 170–171
searching specific channels, 172–173
setting keyword-specific notifications, 177–178
setting specific notifications for, 174–177
starring a channel, 167
starting quick channel meetings, 171
turning group chats into proper channels, 171–172
types of, 164
understanding of, 163–168
viewing information about specific channels, 166–167

Chat. *See also* Meetings & Chat

description of icon for attendee (on webinars), 227
description of icon for host (on webinars), 226
as meeting participant action, 100

chat, as other name for instant messaging (IM), 11

chatting

allowing participants to as security-related option, 252
comparing channels to group chat, 164, 174
with individual contacts, 134–136
inviting others to existing group chat, 128, 138–139
leaving group chat, 137–138
referencing a specific member in group chat, 142–143
setting specific notifications for group chats, 174–176
starting new group chat, 59, 136–137
turning group chats into proper channels, 171–172

Cheat Sheet, 5

choices, people as struggling when faced with too many choices, 193

Christensen, Clayton (author)

The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail, 247

ciphertext, 253

circuit-based networks, 12

Cisco Systems
 acquisition of Webex by, 10
 TelePresence, 280–281, 283
Cisco TelePresence Fundamentals, 280
 Cisco Webex, 18

Clear
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 229

Clear All Feedback, as additional meeting option for hosts, 115

Clear Chat History, as Meetings & Chat contact action, 128

cloud computing, Zoom’s use of, 21

Cloud Recording, as type of usage report, 183

cMe2 Huddle Room Light (Brightline), 291, 292

code changes, 257

code snippets
 creating, 179–181
 enabling of, 179
 sharing of, 178–181

co-host
 adding and managing, 222
 benefits of experienced co-host, 221–222
 specifics of role of in meetings, 73, 219–221

collaboration tools. *See also* Microsoft Teams; Slack
 built-in ones in Zoom, 32–33
 examples of, 18–19, 128, 221
 Microsoft as supporting bevy of, 18
 resistance to adoption of new technology, 316
 support of wildcards with, 155

comedy, performing of via Zoom, 357

“Communication is 93% Nonverbal: An Urban Legend Proliferates” (Lapakko), 25

communications
 having backup communications tool, 341
 protecting yours in Zoom, 245–276
 why employees often resist adopting new work-related communication tools, 316–317
 Zoom as not replacing need for in-person communication, 345

computer app, use of term, 55

Conference Room Connectors (Zoom Rooms), 289

confidence monitor, use of, 286

contacts
 adding external contacts, 123–124
 adding internal contact to existing meeting, 126–127
 adding internal contacts, 123
 importing or syncing third-party contacts, 125
 inviting existing contact to new meeting, 126
 managing your Zoom contacts, 122–128
 performing contact-specific actions, 127–128
 removing an existing contact, 125–126

content distribution, Zoom’s integrations with, 223

contingency plans, importance of for important meetings, 340–341

cooking classes, via Zoom, 355

Copy, as message-specific action, 149

coronavirus, 15, 249. *See also* COVID-19

Corsair, Elgato Green Screen, 99

costs
 Basic plan, 34, 338
 Business Meetings & Chat plan, 35–36
 Enterprise Meetings & Chat plan, 36
 Enterprise Plus Meetings & Chat plan, 36–37
 Pro Meetings & Chat plan, 35
 Zoom as affordable, 26
 Zoom as requiring minimal up-front cost, 347
 Zoom Phone, 44
 of Zoom Room, 41–42, 284
 of Zoom Room software license, 285
 Zoom Webinar add-on pricing, 39

Covey, Stephen (author)
The 7 Habits of Highly Effective People, 230

COVID-19
 history of, 15
 impact of on Zoom, 14–16, 22, 249, 344
 Zoom as helping to alleviate critical business and social problems during, 245, 314–315

creative destruction, understanding of, 246–251

Csikszentmihalyi, Mihaly (author)
Flow: The Psychology of Optimal Experience, 132

customer-relationship management (CRM), 27, 28, 38, 203, 223, 348

CVent, as third-party app, 223

D

Daily, as type of usage report, 183
daily active users (DAUs), 15–16
dashboard
 My Dashboard, 199, 200
 reporting dashboard for Business and Education plans, 184
 UI as, 59
 Zoom account dashboard, 54
 Zoom dashboard, 35
 Zoom Phone dashboard, 44
data, Zoom's intelligent use of, 21
data sharing, as communication service, 11
data storage
 staying within plan's limit of, 241
 today's cheaper costs of, 20
 viewing current level of, 119–120
dating, via Zoom, 356
Deep Work: Rules for Focused Success in a Distracted World (Newport), 132
Delete Contact, as Meetings & Chat contact action, 128
desktop client
 defined, 55
 downloading and installing, 54–56, 191
 signing in to, 56–57
 use of term, 55
desktop sharing, as communication service, 11
developer forums, 353
developer guides, for Zoom, 353
directory, Meetings & Chat directory, 122–128
distributed architecture, Zoom's use of, 21
Dogfight: How Apple and Google Went to War and Started a Revolution (Vogelstein), 250
do-not-disturb (DND), as Meetings & Chat status, 131–132
downgrades, 26, 52, 54, 67
Draw
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 228

Drew University, use of Zoom Rooms by, 290–291
DTEN All-in-One Video Conferencing Device, 286, 287
Dunbar, Robin (anthropologist), 122

E

E2EE (end-to-end encryption), 253, 254
eBay, as benefitting from network effects, 317
Education Meetings & Chat plan, 35, 37, 39, 67, 77, 96, 117, 184, 268, 330
educators. *See* teachers/educators
Elgato Green Screen (virtual background), 99
email
 as killer business app of last 25 years, 320
 myth that Zoom eliminates need for, 346
emojis, adding of to messages, 144–145
empty white circle, as Meetings & Chat status icon, 129
Enable Waiting Room
 as additional meeting option for hosts, 115
 as security-related option, 252
encryption, enhancement of, 253–255
Encrypt.me, 255
End
 description of icon for host (on webinars), 227
 description of icon for (in meetings), 79
ending meeting, 115–116
endpoints, 289
end-to-end encryption (E2EE), 253, 254
end-user license agreements (EULAs), 41, 205
Enterprise Meetings & Chat plan, 35, 36, 67, 77, 96, 268, 330
Enterprise Plus Meetings & Chat plan, 35, 36–37, 39
Epic, as popular Zoom app, 203
Eraser
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 229
Evans, Benedict (venture capitalist), 250
Eventbrite, as third-party app, 223
extensions, as diluted apps, 191

F

Facebook

- as benefitting from network effects, 317
- as encouraging third-party developers to create their own apps, 191

Facebook Live, 38

Facebook Messenger Rooms, 19

- as fixated on cutting-edge technologies, 326
- as having to manage double-edged sword of sudden, massive growth, 247

as option when creating new Zoom account, 48

purchase of Oculus by, 326

security and privacy challenges of, 274

sharing webinar on, 214, 236–237

using 2FA for, 263

WhatsApp, 253

Zoom on, 352

facial recognition

current status of in marketplace, 333

potential for in Zoom's future, 333

fatigue

tool fatigue, 322

Zoom fatigue, 342

files

quickly accessing, 147

storing of, 36

uploading and sharing of, 146–147

fitness, via Zoom, 357

Flow: The Psychology of Optimal Experience (Csikszentmihalyi), 132

Follow Message, as message-specific action, 149

Format

as annotation option, 113

description of icon for host-annotation options (on webinar), 229

formatting, applying different formats to text in messages, 144

framing, recommendation for, 94

Free Conference Call, 341

freemium business model, 337

friction, potential additions to in Zoom's future, 333

Friedman, Thomas L. (author)

The World Is Flat: A Brief History of the Twenty-first Century, 280

Fuze, 19

G

game playing, via Zoom, 356

Gartner 2019 Magic Quadrant for Meeting Solutions, Zoom's leader award from, 16

GitHub

as popular Zoom app, 203

Zoom's publication of its cryptographic design on for peer review, 254

Glassdoor Best Place to Work in 2019, Zoom's second place award from, 16

Gmail

using Zoom instead of, 28

using Zoom with, 33

Zoom as integrating with, 348

Google

apps of as connecting with those of third- party, 204

as confronting security and privacy challenges, 274

as fixated on cutting-edge technologies, 326

Google Assistant app, 331

Google Authenticator app, 262, 263

Google Calendar, 83, 203

Google Docs, 221, 340

Google Drive, 57, 146, 189, 190–191, 321

Google Home, 330

Google Meet, 19

Google Sheets, 188

Google Trends' searches for Zoombombing, 248

as having to manage double-edged sword of sudden, massive growth, 247

importing and syncing contacts from, 125

meteoric growth of Google Classrooms during pandemic, 315

as option when creating new Zoom account, 48

Pixel Buds, 331

search capabilities of, 32

- as supporting bevy of related collaboration tools, 18
- uptime percentages with, 41
- GoToMeeting, 18
- graduations, via Zoom, 357
- gray circular clock, as Meetings & Chat status icon, 129
- green outlined rectangle, as Meetings & Chat status icon, 129
- green solid circle, as Meetings & Chat status icon, 129
- group chat
 - comparing channels to, 164, 174
 - inviting others to existing group chat, 128, 138–139
 - leaving group chats, 137–138
 - quickly setting notifications for, 176–177
 - referencing a specific member in, 142–143
 - setting specific notifications for, 174–177
 - starting new group chat, 59, 136–167
 - turning group chats into proper channels, 171–172
- group meetings, taking them to the next level with Zoom Rooms, 279–292
- growth, companies having to manage
 - double-edged sword of sudden, massive growth, 247

H

- H.323, 13, 289
- hackers, 205, 246, 255, 257, 260, 264, 270, 332, 339
- Hafner, Katie (author)
 - Where Wizards Stay Up Late: The Origins of the Internet*, 12
- Halo Collaboration Center (HCC) (HP), 281
- Halo Collaboration Studios (HCS) (HP), 281
- Hanlon's Razro, 319
- happy hour, via Zoom, 356
- help center, 350
- Hewlett-Packard (HP)
 - Halo Collaboration Center (HCC), 281
 - Halo Collaboration Studios (HCS), 281–282
- Hold, description of icon for in-call options for Zoom Phone calls, 308
- host
 - annotation options for in webinars, 228–229
 - managing and interacting with participants, 99–100
 - mid-meeting actions of, 95–115
 - other meeting options for, 114–115
 - recording options, 95–97
 - restricting who can attend meetings by, 264–265
 - specifics of role of in meetings, 73
 - specifics of role of in webinars, 217–218
 - in-webinar controls for webinar hosts, 226–227
- http (Hypertext Transfer Protocol), 13
- HubSpot, as CRM and marketing automation tool, 223
- huddle rooms, 284

I

- IBM, on facial recognition, 333
- iCal, using Zoom with, 33
- icons
 - in book, explained, 4–5
 - Meetings & Chat status icons, 129–130
 - Zoom In-Meeting menu icons, 79
- IDs
 - increasing length of, 255
 - Personal Meeting ID (PMI), 35, 74–75, 86–87, 90–91, 268, 272
 - removal of meeting ID from title toolbar as security-related measure, 252
- IM (instant messaging), as communication service, 11
- IM groups
 - adding new group, 161
 - adding users to, 161
 - comparing channels to, 174
 - types of, 161
 - understanding need for, 160–162
- immersive telepresence
 - author's experience with, 282
 - defined, 280
 - early days of, 280–282

Inactive Hosts, as type of usage report, 183
in-call options on Zoom Phone, 308–309
The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail (Christensen), 247
Instant Meetings, use of term, 78
instant messaging (IM), as communication service, 11
integrations, apps as compared to, 223
Intermedia AnyMeeting, 19
Internet Protocol (IP) telephony, 11
Invite Others, as Meetings & Chat contact action, 128
iPhones
 as not instant hit everywhere, 250
 user numbers, 250

J

Johns Hopkins University, on deaths from coronavirus, 15
Johnson, Jim (founder and chairman of The Standish Group), 159
Johnson-DeBaufre, Melanie (Associate Dean of Drew Theological School), 290
Join.Me, 19

K

Kafka, Franz (novelist), 340
Kaltura, 223
Katz, Kathy (managing partner at Brightline), 292
Keybase, Zoom's acquisition of, 254
Keypad, description of icon for in-call options for Zoom Phone calls, 308
Kondo, Marie (author)
 ADD ACCENT IN RTF *The Life-Changing Magic of Tidying Up*, 322
Kranzberg, Melvin (professor), 246

L

language translation, potential for in Zoom's future, 331
Lapakko, David (academic), 25
The Lawnmower Man (film), 327

learning management systems (LMS), Zoom as integrating with, 348
Leave, description of icon for attendee (on webinars), 227
leaving meeting, 115–116
Lenin, Vladimir (former premier of Soviet Union), 249
The Life-Changing Magic of Tidying Up (Kondo)
 ADD ACCENT IN RTF, 322
Lifesize, 283
lighting
 recommendation for, 94
 for Zoom Rooms, 291–292
LinkedIn
 as benefitting from network effects, 317
 Zoom on, 352
LMS (learning management systems), Zoom as integrating with, 348
Lock Meeting
 as additional meeting option for hosts, 115
 as security-related option, 252
LogMein, 19

M

machine learning (ML), 327–328
Magic Quadrant, 16
Make Co-Host, as meeting participant action, 100
Make Host, as meeting participant action, 100
Malcolm, Ian (fictional character in *Jurassic Park*), 272
Mark as Unread
 as Meetings & Chat contact action, 128
 as message-specific action, 149
Marketo
 as CRM and marketing automation tool, 223
 using Zoom with, 38
MCU (Multipoint Control Unit), 21
Meet, description of icon for in-call options for Zoom Phone calls, 309
Meet Now, use of term, 78
Meet with Video, as Meetings & Chat contact action, 128

- Meet without Video, as Meetings & Chat contact action, 128
- Meeting
 - as type of member report, 185
 - as type of usage report, 183
- meeting ID, removal of from title toolbar as security-related measure, 252
- meetings, use of term, 47
- Meetings & Chat
 - Active Speaker layout, 81
 - audio transcriptions. *See* audio transcriptions
 - augmenting, 75–78
 - background. *See* background
 - channels. *See* channels
 - collecting participant input through polls, 85–87
 - contact-specific actions, 127–128
 - creating threads, 139–145
 - directory, 122–128
 - editing scheduled meeting, 84–85
 - enabling default passwords and waiting rooms for, 255
 - ending meeting, 115–116
 - getting more out of, 159–188
 - getting started with, 72–78
 - handling registration for, 87–89
 - hosting Zoom meetings, 78–95
 - IM groups. *See* IM groups
 - inviting existing contact to new meeting, 126
 - inviting others to current meetings, 80
 - joining others' meetings, 90–91
 - keeping privacy in mind during, 275–276
 - leaving meeting, 115–116
 - letting others in to yours, 89–92
 - limiting who can control main screen, 273
 - locating your version of, 257
 - main features and benefits, 32–33
 - other in-meeting layouts, 82
 - performing mid-meeting actions, 95–115
 - planning future meeting, 82–89
 - plans and costs, 33–37
 - polling. *See* polling
 - putting bow on, 115–120
 - as ready-to-go tool, 30
 - recording. *See* recording
 - requiring more complex passwords for, 270–272
 - restricting of apps in, 199–200
 - rich-text message formatting options in, 143
 - scheduling meeting, 82–84
 - screen-sharing. *See* screen-sharing
 - sharing content on, 105–114
 - specifications of, 26
 - uploading and sharing of files, 146–147
 - user interface (UI), 58
 - user numbers, 283
 - uses of, 31
 - version 5.0, 259, 276
 - webinars as add-on to, 208
 - webinars as special types of, 229
 - Zoom channels. *See* channels
- Mehrabian, Albert (author)
 - Silent Messages*, 25
- member(s)
 - as default user role, 67
 - reporting for, 185
- Message Not Received: Why Business Communication Is Broken and How to Fix It* (Simon), 24, 345
- messages
 - adding flair to, 143–145
 - creating, 139–145
 - editing and deleting, 141–142
 - performing message-specific actions, 149–150
 - referencing other Zoom members in group discussion, 142–143
 - saving drafts, 141
- Messenger Rooms (Facebook), 19
- Meta View (formerly Meta), 327
- metadata
 - defined, 21
 - Zoom's intelligent use of, 21

microphones, Yeti Blue, 94

Microsoft

- acquisition of Skype by, 18
- apps of as connecting with those of third-party, 204
- as benefitting from network effects, 317
- as encouraging third-party developers to create their own apps, 191
- on facial recognition, 333
- as fixated on cutting-edge technologies, 326

Microsoft Access, 188

Microsoft Authenticator, 262

Microsoft Azure, 41

Microsoft Cortana, 330

Microsoft Excel, 188, 320

Microsoft Exchange, 125

Microsoft Office, 189, 321

Microsoft Office 365, 57, 125

Microsoft OneDrive, 146

Microsoft Outlook, 27, 28, 33, 83, 193, 195, 348, 351

Microsoft PowerBI, 188

Microsoft Project, 321

Microsoft Teams. *See* Microsoft Teams

Microsoft Word, 107

- as serious player in cellphone market, 250
- as supporting bevy of related collaboration tools, 18

Zoom Phone as competing with, 312

Zoom's rise as carving out market share from, 22

Microsoft Teams

- as collaboration tool, 19, 128, 189, 221, 276, 302, 320, 321, 323
- cynics as dismissive of, 317
- as having functionality to create channels, 163
- as popular Zoom app, 203
- as supporting wildcards, 155
- Zoom as integrating with, 348

Minimize, description of icon for in-call options for Zoom Phone calls, 309

monetization, of webinars, 223

Mouse, description of icon for host-annotation options (on webinar), 228

movie watching, via Zoom, 357

multi-bitrate encoding, Zoom's use of, 21

multichanging, vs. multitasking, 132

multimedia routing, Zoom's use of, 21

Multipoint Control Unit (MCU), 21

Mute

- description of icon for host (on webinars), 226
- description of icon for (in meetings), 79
- description of icon for in-call options for Zoom Phone calls, 308

Mute Participants upon Entry, as additional meeting option for hosts, 115

myths, about Zoom, 343–348

N

Neat, Neat Bar, 286

Netflix, as benefitting from network effects, 317

network effect, Zoom as benefitting from, 317–318

Newport, Cal (author)

- Deep Work: Rules for Focused Success in a Distracted World*, 132

nonverbal cues, how much they matter, 25

nonverbal overload, 342

notifications

- don't be a slave to, 132
- refining yours, 174–177-8
- setting keyword-specific ones, 177–178
- setting ones for all channels and group chats, 176–177
- setting specific ones for channels and group chats, 174–176
- staying current with, 133–134

Notify Me When Available, as Meetings & Chat contact action, 128

O

online tastings, via Zoom, 355

OpenText, videoconferencing backgrounds, 98

Operation Logs, as type of user-activity reports, 183

Otter.ai, as popular Zoom app, 203

Ovide, Shira (writer)

- "Zoom is easy. That's why it's dangerous.," 333

owner, as default user role, 67

P

- packet switching, 12
- panelist
 - options for, 221
 - specifics of role of in webinars, 218–219
- Panopto, 223
- The Paradox of Choice: Why More Is Less* (Schwartz), 193
- Pardot, as CRM and marketing automation tool, 223
- participants
 - adding internal contact to existing meeting, 126–127
 - allowing them to chat, as security-related option, 252
 - allowing them to rename themselves, as security-related option, 110, 115, 252
 - description of icon for host (on webinars), 226
 - description of icon for (in meetings), 79
 - display of Participants panel, 99
 - joining meeting using PMI, 90–91
 - joining meeting via URL, 92
 - letting meeting participants control your screen, 109–111
 - looking your best in Zoom, 93
 - managing and interacting with, 99–100
 - notification to in Zoom Meetings desktop client, 90
 - premeeting entry prompt, 92
 - preventing removed ones from rejoining, 272–273
 - putting your best foot forward, 93–95
 - sharing content with, 105–114
 - specifics of role of in meetings, 73–74
 - waiting for hosts to begin meeting, 92
- Participants tab, 99
- parties, via Zoom, 357
- partnerships and acquisitions, potential for in Zoom's future, 332
- passwords
 - enabling default passwords for all meetings, 255
 - intelligent use of, 267–272
 - 100 worst ones from 2018, 270
 - requirement for, 338
 - requiring more complex meeting and webinar passwords, 270–272
 - setting one for individual upcoming meeting, 268
 - setting other password-related options, 268–269
 - use of, 91
- PayPal, for monetization of webinars, 223
- Performance Report, for webinars, 239
- personal appearance, recommendations for, 94
- personal information, locating your personal Zoom information, 74–75
- Personal Meeting ID (PMI)
 - creating and distributing of in Pro plan, 35
 - joining a meeting using, 90–91
 - keeping it private, 272
 - as key to Personal Meeting Room (PMR), 74–75
 - polls as tied to specific ones, 86–87
 - requirement for, 268
- Personal Meeting Room (PMR), 74
- Phone System, as type of usage report, 183
- Phone System Operation Logs, as type of user-activity reports, 183
- phones
 - cellphone market, 250
 - ThinkingPhones, 19
 - Zoom Phone. *See* Zoom Phone
- plans
 - adding Zoom Phone to your existing plan, 294–296
 - Basic plan. *See* Basic plan
 - Business Meetings & Chat plan. *See* Business Meetings & Chat plan
 - canceling of, 52, 53–54, 67
 - downgrading of, 26, 52, 54, 67
 - Enterprise Meetings & Chat plan. *See* Enterprise Meetings & Chat plan
 - Enterprise Plus Meetings & Chat plan. *See* Enterprise Plus Meetings & Chat plan
 - modifying yours, 52–54
 - Pro Meetings & Chat plan. *See* Pro Meetings & Chat plan
 - upgrading of, 26, 34–35, 37, 52–53, 60, 67, 338

Play Enter/Exit Chime, as additional meeting option for hosts, 115

playing games, via Zoom, 356

PMI (Personal Meeting ID)

- creating and distributing of in Pro plan, 35
- joining a meeting using, 90–91
- keeping it private, 272
- as key to Personal Meeting Room (PMR), 74–75
- polls as tied to specific ones, 86–87
- requirement for, 268

PMR (Personal Meeting Room), 74

Poll Report, for webinars, 239

polling

- collecting participant input through polls, 85–87
- description of icon for host (on webinars), 227
- launching live polls, 100–102
- Poll Report for webinars, 239
- setting up on webinars, 216–217
- as Zoom In-Meeting Menu icon, 79

Poly Studio, X Video Bars, 286

Polycom, 283

premium plans, 34–35, 60, 64, 67, 85, 124, 161, 164, 181, 194. *See also* Business Meetings & Chat plan; Education Meetings & Chat plan; Enterprise Meetings & Chat plan; Enterprise Plus Meetings & Chat plan; Pro Meetings & Chat plan

presence information, as communication service, 11

privacy. *See* security and privacy controls/settings

Private

- as type of IM group, 161
- as type of Zoom channel, 164, 169–170

Pro Meetings & Chat plan, 14, 34, 35, 37, 39, 52–53, 67, 208, 241, 295

profile

- adding personal note to, 133
- authenticating user profiles, 264–267
- completing Zoom profile, 57–58

protection, of communications in Zoom, 245–276

protocols

- defined, 13
- H.323, 13
- Session Initiation Protocol (SIP), 13

Public, as type of Zoom channel, 164, 169

Pulver, Jeff (founder of Vonage), 18

Put in Waiting Room, as meeting participant action, 100

Q

Q&A

- allowing attendees to upvote others' questions in webinar, 232–233
- answering questions of in webinar, 231–232
- description of icon for attendee (on webinars), 227
- description of icon for host (on webinars), 227
- dismissing attendees' questions in, 231
- handling of in webinar, 235–236
- Q&A Report for webinars, 239
- reopening dismissed attendee questions of in webinar, 232

Q&A Report, for webinars, 239

R

Raise Hand/raising hand

- as attendee action, 222, 227
- description of icon for attendee (on webinars), 227
- as panelist action, 218
- responding when webinar attendees use this feature, 233–234

reactions, description of icon for, 79

Record

- description of icon for host (on webinars), 227
- description of icon for in-call options for Zoom Phone calls, 308

recording

- accessing, 117–120, 236–237
- deleting recorded webinars, 241
- description of icon for, 79
- downloading recorded webinar, 238
- sharing of, 119, 236–237
- of Zoom meetings, 33, 95–97

red calendar, as Meetings & Chat status icon, 129

red circle with telephone symbol, description of icon for in-call options for Zoom Phone calls, 309

- red circle with white exclamation point, as Meetings & Chat status icon, 129
- red circle with white horizontal line in center, as Meetings & Chat status icon, 129
- red telephone, as Meetings & Chat status icon, 129
- red video camera, as Meetings & Chat status icon, 129
- Redo
 - as annotation option, 113
 - description of icon for host-annotation options (on webinar), 229
- Reeder Music Academy, adoption of Zoom by, 14
- refactoring, 257
- registration
 - for meetings, 87–89
 - registering for future meeting, 88
 - Registration Report for meetings, 183, 185
 - Registration Report for webinars, 239
 - requiring others to register for your meeting, 87
 - viewing registrant data, 88–89
 - for webinars, 210–212, 214–215
- Registration Report
 - for meetings, 183, 185
 - for webinars, 239
- Remote Support, as type of usage report, 183
- Remove, as meeting participant action, 100
- Rename/renaming, as meeting participant action, 100, 115, 252
- Report, as meeting participant action, 100
- reporting
 - customizing of, 186–188
 - exporting raw report data, 188
 - role-based reporting, 182–185
 - running simple report, 185–186
 - running webinar-related reports, 239–240
 - with Zoom, 38, 181–188
- resources
 - for everyday users, 350–352
 - for software developers, 353
- Restricted, as type of IM group, 161
- RingCentral, 18

- roles
 - meeting-specific roles, 72–73
 - user roles. *See* user roles
- Running Engaging Online Events*, 223

S

- safeguards, 38, 246
- Salesforce
 - as customer-relationship management (CRM) system, 27, 38, 217, 223
 - as encouraging third-party developers to create their own apps, 191
 - as enterprise system, 321
 - as popular Zoom app, 203
 - using Zoom with, 27, 38
 - Zoom as integrating with, 348
- Save
 - as annotation option, 113
 - description of icon for host-annotation options (on webinar), 229
- Sayre, Wallace Stanley (political scientist and professor), 328
- Scheck, Justin (journalist), 281
- Schumpeter, Joseph (economist), 246–247
- Schwartz, Barry (author)
 - The Paradox of Choice: Why More Is Less*, 193
- screen captures, sending, 148–149
- screen-sharing
 - allowing participants to share screen as security-related option, 252
 - basics of, 105–108
 - cautions with, 110
 - letting meeting participants control your screen, 109–111
 - limiting who can control main screen, 273
 - performing different tasks while, 109
 - regaining control of your computer, 111
 - requesting control of host's screen, 111
 - in webinars, 228–229
 - on Zoom Rooms, 283

- SDKs (software development kits), 192
- searching
 - performing advanced searches, 153–155
 - performing basic searches, 150–153
 - performing searches with wildcards, 155–156
- security
 - addition of icon for, 252
 - description of icon for, 79
 - enhancements to, 257
 - taking it seriously, 338–339
 - of Zoom meetings, 33, 38
- security and privacy controls/settings
 - applying different security options to different user groups, 269–270
 - authentication, 260–267
 - bringing Zoom’s to the forefront, 252–253
 - configuring zoom for maximum privacy and security, 256–276
 - exhibiting healthy skepticism, 274–275
 - following Zoom’s best security practices, 272–273
 - importance of using your brain regarding, 274
 - keeping privacy in mind during meetings, 275–276
 - looking toward the future, 276–277
 - myth that Zoom is fundamentally insecure, 344
 - need for understanding of, 246
 - password-related, 267–272
 - potential increases to in Zoom’s future, 332
- Select
 - as annotation option, 113
 - description of icon for host-annotation options (on webinar), 228
- Session Initiation Protocol (SIP), 13, 289
- setting up Zoom
 - completing Zoom profile, 57–58
 - creating new Zoom account, 48–52
 - downloading and installing Zoom desktop client, 54–56
 - getting to know Zoom’s UI, 58–59
 - modifying your plan, 52–54
 - reviewing Zoom account management, 59–67
- The 7 Habits of Highly Effective People* (Covey), 230
- Shadow IT, 319
- The Shallows: What the Internet Is Doing to Our Brains* (Carr), 322
- Share Message., as message-specific action, 149
- Share Screen
 - description of icon for host (on webinars), 227
 - description of icon for (in meetings), 79
- Shared, as type of IM group, 161
- Sign In/Sign Out, as type of user-activity reports, 183
- Silent Messages* (Mehrabian), 25
- SIM (subscriber identification module), 264
- SIM swap, 264
- single sign-on (SSO), 56, 57
- SIP (Session Initiation Protocol), 13, 289
- Skype
 - business version, 18
 - consumer version, 18
- Slack
 - apps of as connecting with those of third-party, 204
 - author’s experience with, 17
 - as collaboration tool, 19, 27, 41, 57, 128, 221, 276, 321, 323, 340
 - cynics as dismissive of, 317
 - as encouraging third-party developers to create their own apps, 191
 - as having functionality to create channels, 163
 - as not including screen-sharing, 28
 - as popular Zoom app, 203
 - as supporting wildcards, 155
 - as trailing Meetings & Chat when it comes to user statuses, 133
 - 2019 application rewrite, 257
 - uptime percentages with, 41
 - using Zoom with, 27, 28
 - Zoom as integrating with, 348
 - Zoom Phone as resembling communications products of, 302
- Slack For Dummies* (Simon), 17, 332
- snippets, 178–181
- social networks, Zoom on, 352

socializing, via Zoom, 355–357
software development kits (SDKs), 192
software licenses, 36
sound quality, optimizing of, 93–95
Spaventa, Shawn (Director of Instructional Technology of Drew Theological School), 290, 291
Splain.io Google Drive, 190–191
Spotlight
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 228
SSO (single sign-on), 56, 57
Stamos, Alex (former security chief at Facebook), 251, 252
Stamp
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 228
stand-up comedy, performing of via Zoom, 357
Star Message, as message-specific action, 149
Star/Unstar this Contact, as Meetings & Chat contact action, 128
status icons, 129–130
Stop Video
 description of icon for host (on webinars), 226
 description of icon for (in meetings), 79
storing/storage
 data storage, 20, 119–120, 241
 in Pro and Business plans, 241
 unlimited file storage in Enterprise Meetings & Chat plan, 36
 upgrading of for cloud recording, 37
 on Zoom, 33
subscriptions. *See* plans
support from Zoom, help center, 350
system uptime, 41

T

teachers/educators

Blackboard, Canvas, and other popular learning management systems (LMS) as integrating with Zoom, 348

NYC Department of Education's recommendation about Zoom, 248, 277
possibilities of AR and VR capabilities for, 327
use of Zoom by, 2, 15, 315
using channels with, 163
waiver of 40-minute limit for, 34
Teams (Microsoft). *See* Microsoft Teams
tech support, help center, 350
technology
 resistance to adoption of new technology, 315, 316
 statistic on use of available features of, 159
Telehealth Meetings & Chat plan, 37
TelePresence (Cisco), 280–281
Terms and Conditions May Apply (documentary), 205
Text
 as annotation option, 113
 description of icon for host-annotation options (on webinar), 228
ThinkingPhones, 19
third-party apps
 benefits of using, 190–192
 encouraging employees to use Zoom's, 320
 enhancing Zoom with, 189–192
 perils of, 205
 potential for more robust ones in Zoom's future, 331–332
 taking Zoom webinars up a notch with, 223
 understanding rationale behind, 190–192
third-party sites, broadcasting to from Zoom, 38
tool fatigue, 322
Touch Up My Appearance, 93
training, 321, 341
transcribing, of Zoom meetings, 33. *See also* audio transcriptions
Transfer, description of icon for in-call options for Zoom Phone calls, 308
trial runs, importance of, 340
trolls, 222, 230, 246, 248, 257
Turk, Melissa (Carnegie Mellon University Associated Director of Alumni Engagement), 221–222, 235, 340

- TV watching, via Zoom, 357
- Twitter
 - as benefitting from network effects, 317
 - as confronting security and privacy challenges, 274
 - as encouraging third-party developers to create their own apps, 191
 - as having to manage double-edged sword of sudden, massive growth, 247
 - poll about individuals' preferred work-from-home (WFH) tools on, 22–23
 - sharing webinar on, 214, 236
 - use of 2FA for, 263
 - Zoom on, 352
- 2019 Inc., Zoom's placement on 5000 list of America's fastest growing private companies, 16
- two-factor authentication (2FA)
 - activating it at organizational level, 261
 - enabling of, 338
 - overview, 260–261
 - remaining vigilant, even with it enabled, 263–264
 - turning it on for yourself, 261–263

U

- UberConference, 19
- UI (user interface)
 - getting to know Zoom's, 58–59
 - Zoom's changes to, 256
- Undo
 - as annotation option, 113
 - description of icon for host-annotation options (on webinar), 229
- Unified Communications (UC), 11
- unified messaging, as communication service, 11
- Upcoming Events, as type of usage report, 183
- updates
 - dealing with forced upgrades, 259
 - importance of, 339
 - locating your version of Meetings & Chat, 257
 - process for updating, 258–259
 - types of, 256

- upgrades, 26, 34–35, 37, 52–53, 60, 67, 259, 338
- Urban, Urban Immersive Datapresence (ID) product, 288, 289
- Usage, as type of member report, 185
- user authentication, 264–267
- user groups
 - applying different security options to different user groups, 269–270
 - changing, 66–67
 - comparing channels to, 174
 - creating new user group, 65
 - overview, 64
 - populating, 65–66
- user interface (UI)
 - getting to know Zoom's, 58–59
 - Zoom's changes to, 256
- user management, 35
- user roles
 - changing an existing user's role, 69
 - creating new ones, 68
 - default user roles, 67
 - importance of, 67–69
- user status
 - changing yours, 130–133
 - understanding of, 128–134
- users. *See also specific user groups*
 - adding of to your Zoom account, 60–61
 - deleting existing users, 62–63
 - ensuring privacy of, 253
 - managing of via IM groups, 160–162
 - types of, 60
 - unlinking of, 63–64

V

- Valera, Richard (analyst), 16
- vanity web addresses, creation of, 35
- video
 - pinning of in Zoom Rooms, 283
 - spotlighting of in Zoom Rooms, 283

- video conferencing/video conference tools
 - advantages of today's breed of, 20
 - as communication service, 11
 - Meetings & Chat. *See* Meetings & Chat
 - Video Webinars. *See* Video Webinars
 - Zoom as *de facto* standard for, 317
 - Zoom Rooms. *See* Zoom Rooms
 - Zoom's main competitors in, 18–19
 - Zoom's rating as video conferencing app, 17
- video games, playing of via Zoom, 356
- video meetings, role of, 121
- Video Webinars. *See also* webinars
 - as add-on to Meetings & Chat plan, 44, 208
 - calling as not available via, 23
 - as easy to set up, 25
 - main features and benefits of, 37–38
 - more information about, 208
 - plans and costs, 38–39
 - as ready-to-go tool, 30, 31
 - as special types of Zoom meetings, 208
- Viera, Javier (Vice Provost and Dean of Drew Theological School), 290
- View Profile, as Meetings & Chat contact action, 128
- virtual backgrounds, 97–99, 352
- virtual private network (VPN), 254–255
- virtual reality (VR), 326–327
- visiting, via Zoom, 356
- Vogelstein, Fred (author)
 - Dogfight: How Apple and Google Went to War and Started a Revolution*, 250
- Voice, as communication service, 11
- voice capabilities, current limitations of on Zoom, 329
- voice commands
 - future of, 330
 - use of in Zoom Rooms, 283
- Voice over Internet Protocol (VoIP), 18, 289, 294
- voicemail
 - listening to, 309–310
 - setting up on Zoom Phone, 304

- Vonage, 18
- VPN (virtual private network), 254–255
- VR (virtual reality), 326–327

W

- waiting room
 - attendees' view of meeting while in, 89
 - Enable Waiting Room, 115
 - enabling default waiting rooms for all meetings, 255
 - enabling of, 76, 338
 - as feature for augmenting meetings, 75
 - options for, 90
 - Put in Waiting Room description, 100
 - use of as security practice, 272
- The Wall Street Journal*, article on telepresence, 281
- web conferencing, as communication service, 11
- webcams
 - Logitech BRIO, 93
 - placement of, 94
- Webex, 10, 18, 325
- webhooks, 192
- Webinar, as type of member report, 185
- webinars
 - accessing and sharing recording of, 236–237
 - as add-on to Meetings & Chat plan, 37, 38, 44, 208
 - allowing attendees to upvote others' questions in, 232–233
 - answering attendees' questions in, 231–232
 - canceling yours, 224–225
 - concluding, 236–241
 - for content distribution, 223
 - creating your first webinar, 209–210
 - for CRM and marketing automation, 223
 - deleting recorded webinars, 241
 - disabling attendee questions, 216
 - dismissing attendees' questions, 231
 - downloading recording of, 238
 - interacting with attendees on, 230

webinars (*continued*)
 inviting others to yours, 212–213
 launch screen, 226
 launching, 225–227
 main features and benefits, 37–38
 monetization of, 223
 overview, 208–209
 performing other attendee-related actions, 234
 plans and costs, 38–39
 preparation of, 212–217
 requiring more complex passwords for, 270–272
 responding when attendees raise their hands, 233–234
 running of, 225–236
 running webinar-related reports, 239–240
 setting registration options, 210–212
 setting up polls on, 216–217
 sharing and annotating screen on, 228–229
 sharing link to yours with others, 213–215
 as special types of Zoom meetings, 229
 taking first steps with, 208–225
 viewing and removing registrants, 215–216
 webinar-specific roles, 217–223
WhatsApp, E2EE feature of, 253
Where Wizards Stay Up Late: The Origins of the Internet (Hafner), 12
whiteboarding, 11, 34, 40–41, 105, 107, 112–113
wireless sharing of content, 41
Witherspoon, Reese (actress), 22
work-from-home (WFH) tools, poll on, 22–23
The World Is Flat: A Brief History of the Twenty-first Century (Friedman), 280
Worthen, Ben (journalist), 281

X

X Video Bars (Poly Studio), 286

Y

Yoon, Esther (Zoom's Product Marketing Lead for Room Solutions), 173
YouTube
 on using Webex, 26
 Zoom on, 341

Yuan, Eric, 10
Yuan Eric (CEO of Zoom), 251, 252, 277, 332

Z

Zapier
 as automation tool, 223
 as popular Zoom app, 203
Zendesk, as popular Zoom app, 203
Zimmermann Telegram, 254
Zoho Meeting, 19
Zoom
 add-ons. *See* add-ons
 affordability of, 26. *See also* costs
 author's experience with, 17
 awards and recognition for, 16
 car-related analogy to, 251
 competitive landscape of, 17–23
 as conceived as enterprise service, not consumer one, 332
 core services of, 30–31
 costs. *See* costs
 customers of, 13, 14, 15. *See also* Zoom, user numbers
 enterprise-grade services, 39–44
 feature freeze (April 2, 2020), 252, 276, 277
 flexibility of, 26–27, 344
 forced adoption of during pandemic, 316
 frequency of new versions of, 256
 getting everyone to Zoom together, 313–323
 importance of keeping up to date with, 256–260
 individual techniques for getting Zoom to take root, 321–323
 intelligent choices in design of, 21–22
 interoperability of, 26–27
 introduction to, 9–23
 lack of friction of, 333
 looking toward future of, 325–333
 market capitalization/market share of, 16, 22, 332
 Meetings & Chat as flagship service, 72
 myths about, 343–348
 network effects of, 317–318
 nonprofessional purposes for, 28

- as not supplanting other apps, 27–28
- notifications. *See* notifications
- organizational techniques for getting Zoom to take root, 318–321
- origins of, 10–11
- overall benefits of, 23–28
- overcorrection to Zoombombing by, 251
- overusing of, 346–347
- profile. *See* profile
- rapid ascent of, 13–14, 314
- as relying on external developers, 191–192
- resistance to adoption of at mature firms, 341–342
- rock-solid performance of, 20
- security council at, 252
- socializing via, 355–357
- storage. *See* storing/storage
- training in, 321
- trajectory of and role of during COVID-19 pandemic, 14–16, 22, 110, 245, 249, 314–315, 344
- trying of before you buy, 337
- understanding relative ease of adoption of, 314–318
- user numbers, 13, 15–16, 249, 314, 332, 344
- version 5.0 of Meetings & Chat, 259, 276
- website, 5
- what it does, 11
- Zoom App Marketplace, 192–195, 202, 348, 351, 353
- Zoom Conference Room Connectors, 42–43
- Zoom Download Center, 55
- Zoom fatigue, 342
- Zoom for Doodle, 203
- Zoom Meetings & Chat. *See* Meetings & Chat
- Zoom Phone
 - adding of to existing plan, 294–296
 - basic features of, 302–312
 - as compared to competition, 312
 - configuring and tweaking of before giving out number, 303–305
 - costs, 44
 - getting started with, 294–301
 - main features and benefits, 44
 - making calls with, 293–312
 - overview, 43
 - as part of Zoom's suite of tools, 31
 - performing in-call actions, 306–307
 - performing other call-related actions, 309–312
 - placing outbound calls, 306
 - plans and costs, 44
 - receiving inbound calls, 306–307
 - setting up Zoom to receive inbound calls, 296–301
 - some assembly as required for, 30
 - talking to people via, 306–312
- Zoom Rooms
 - all-in-one appliances for, 286–287
 - bundles for, 288
 - Conference Room Connectors, 289
 - cost and functionality of, 41–42, 284, 285
 - deployment options, 289
 - features of, 283–284
 - hardware for, 286
 - individual components for, 288–289
 - introduction to, 283–285
 - lighting for, 291–292
 - main features and benefits, 40–41
 - overview, 39–40
 - as part of Zoom's suite of tools, 31
 - plans and costs, 41–42, 284, 285
 - setting up, 285–292
 - software for, 285
 - some assembly as required for, 30
 - supercharging of, 42–43
 - taking group meetings to next level with, 279–292
 - for Touch, 289
 - types of environments that typically benefit from, 284–285
 - use of by Drew University, 290