Windows 8

BARRIE SOSINSKY
Dedication
To Allie and Joe, the lights of my life

Acknowledgments
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The editorial team I worked with was really first class. Robyn Thomas and Scout Festa were the two editors responsible for keeping the content on track and accurate. Countless times they made suggestions that improved the quality of the book. They made sure that the book you are holding is appropriately Peachpit wacky, and not Barrie wacky, something I’m sure I’ll be happy about as this book ages. I also want to thank my friend Marcus Perry for serving as tech editor on this project. Marcus and I share a love of building computers and putting new operating systems through their paces.

As with most projects, there were countless behind-the-scenes people who worked silently to bring this book from concept to reality: Danielle Foster, compositor; Valerie Perry, indexer; and many more. I thank you for doing what you do with the devotion you do it.

As always, I learned a lot while writing this book. Windows 8 will keep Microsoft humming along and relevant in the years to come. With this book to press, I’m looking forward to more long runs, some extra time at the gym, playing with my cats (Stormy, Shadow, Smokey, Scamper, Slate, and Spats), and—oh yes, more sleep!
# Table of Contents

Introduction ........................................... viii

**Chapter 1**  
Getting Started ....................................... 1  
Windows 8 Versions .................................... 4  
Features by Version .................................... 5  
System Requirements ................................... 6  
Installing Windows 8 ................................. 9  
Upgrading to Windows 8 ............................. 13  
Sleep, Shut Down, and Restart ..................... 16  
Getting Help ........................................... 18  
Putting It All Together ............................. 20

**Chapter 2**  
The Start Screen ....................................... 21  
The Lock Screen ....................................... 22  
Sign In ................................................... 24  
Passwords, Picture Passwords, and PINs ........ 26  
Start Screen ........................................... 30  
Tiles ....................................................... 33  
Tile Groups ............................................. 37  
Live Tiles ............................................... 39  
Putting It All Together ............................. 42

**Chapter 3**  
Touch and Gestures .................................... 43  
Touch Navigation ...................................... 44  
Corner Hotspots ....................................... 46  
Edge Gestures ......................................... 49  
Touch Keyboards ...................................... 51  
Touch Mice .............................................. 55  
Putting It All Together ............................. 58

**Chapter 4**  
The Classic Interface .................................. 59  
Start Me Up ............................................ 60  
Desktop Elements .................................... 62  
The Taskbar ............................................. 64  
Notifications .......................................... 66  
Desktop Operations .................................. 67
<table>
<thead>
<tr>
<th>Chapter 5</th>
<th>Settings and Customization</th>
<th>79</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Panels</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Settings</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>Windows Features</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Modifying Startup Programs and Services</td>
<td>88</td>
<td></td>
</tr>
<tr>
<td>The Registry</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Policies</td>
<td>92</td>
<td></td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>94</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 6</th>
<th>Applications</th>
<th>95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Launching an Application</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Program Shortcuts and Compatibility</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Installing or Removing a Program</td>
<td>102</td>
<td></td>
</tr>
<tr>
<td>Switching Apps</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>The Run Dialog Box</td>
<td>107</td>
<td></td>
</tr>
<tr>
<td>Snapping</td>
<td>108</td>
<td></td>
</tr>
<tr>
<td>Closing a Program</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>112</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 7</th>
<th>Windows 8 Tile-Based Apps</th>
<th>113</th>
</tr>
</thead>
<tbody>
<tr>
<td>People</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>Cloud Service Connections</td>
<td>117</td>
<td></td>
</tr>
<tr>
<td>Calendar</td>
<td>118</td>
<td></td>
</tr>
<tr>
<td>Mail and Messaging</td>
<td>122</td>
<td></td>
</tr>
<tr>
<td>Photos</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td>135</td>
<td></td>
</tr>
<tr>
<td>Reader</td>
<td>136</td>
<td></td>
</tr>
<tr>
<td>Maps</td>
<td>138</td>
<td></td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>140</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 8</th>
<th>Managing Content</th>
<th>141</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Types</td>
<td>143</td>
<td></td>
</tr>
<tr>
<td>The Picker</td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>Libraries</td>
<td>148</td>
<td></td>
</tr>
<tr>
<td>Homegroups</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Search</td>
<td>153</td>
<td></td>
</tr>
<tr>
<td>Jump Lists</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>Sharing Content</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>Chapter 9</td>
<td>Printers and Devices</td>
<td>161</td>
</tr>
<tr>
<td>Desktop Printer and Device Installation</td>
<td>163</td>
<td></td>
</tr>
<tr>
<td>Desktop Printing</td>
<td>168</td>
<td></td>
</tr>
<tr>
<td>Start Screen Device Management</td>
<td>170</td>
<td></td>
</tr>
<tr>
<td>Printing in Modern Apps</td>
<td>172</td>
<td></td>
</tr>
<tr>
<td>Device Manager</td>
<td>174</td>
<td></td>
</tr>
<tr>
<td>Windows Update</td>
<td>176</td>
<td></td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>178</td>
<td></td>
</tr>
</tbody>
</table>

| Chapter 10 | Windows 8 Explorer | 179 |
| The Explorer Interface | 180 |
| The File System | 182 |
| Moving Around | 184 |
| Working with Files | 186 |
| Properties | 191 |
| Searches | 193 |
| Putting It All Together | 196 |

| Chapter 11 | Diagnosis and Recovery | 197 |
| Task Manager | 198 |
| The Processes Tab | 201 |
| The Performance and App History Tabs | 203 |
| The Startup, Users, Details, and Services Tabs | 205 |
| Refresh and Reset | 208 |
| Windows Recovery Environment | 211 |
| System Images | 214 |
| Putting It All Together | 216 |

| Chapter 12 | Disks and Storage Devices | 217 |
| Simple Volumes | 218 |
| Dynamic Disks | 224 |
| Drive Properties and Tools | 227 |
| Disk Cleanup and Check Disk | 229 |
| Defragment and Optimize Drives | 231 |
| Solid-State Drives | 233 |
| Storage Spaces | 234 |
| Optical Discs | 236 |
| USB Flash Drives | 238 |
| Putting It All Together | 240 |

| Chapter 13 | Networking | 241 |
| Network and Sharing Center | 242 |
| Network Connections | 245 |
| Set Up a Connection or Network | 247 |
| The Network Folder | 249 |
## Table of Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Internet Explorer 10</td>
<td>259</td>
</tr>
<tr>
<td></td>
<td>Tile-based IE10</td>
<td>260</td>
</tr>
<tr>
<td></td>
<td>Working with Content</td>
<td>262</td>
</tr>
<tr>
<td></td>
<td>Working with Tabs</td>
<td>264</td>
</tr>
<tr>
<td></td>
<td>The Address Bar</td>
<td>267</td>
</tr>
<tr>
<td></td>
<td>Tiles and Pinning</td>
<td>268</td>
</tr>
<tr>
<td></td>
<td>Page Tools</td>
<td>269</td>
</tr>
<tr>
<td></td>
<td>Settings</td>
<td>271</td>
</tr>
<tr>
<td></td>
<td>Desktop IE10</td>
<td>273</td>
</tr>
<tr>
<td></td>
<td>Options and Tools</td>
<td>275</td>
</tr>
<tr>
<td></td>
<td>Putting It All Together</td>
<td>278</td>
</tr>
<tr>
<td>15</td>
<td>Mobile Computing</td>
<td>279</td>
</tr>
<tr>
<td></td>
<td>Windows Phone 8 Features</td>
<td>281</td>
</tr>
<tr>
<td></td>
<td>Windows Mobility Center</td>
<td>284</td>
</tr>
<tr>
<td></td>
<td>Data Synchronization</td>
<td>285</td>
</tr>
<tr>
<td></td>
<td>Smart Network Switching</td>
<td>288</td>
</tr>
<tr>
<td></td>
<td>Managing Power Consumption</td>
<td>290</td>
</tr>
<tr>
<td></td>
<td>Putting It All Together</td>
<td>294</td>
</tr>
<tr>
<td>16</td>
<td>Security</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td>Safe Computing</td>
<td>296</td>
</tr>
<tr>
<td></td>
<td>Windows Firewall</td>
<td>301</td>
</tr>
<tr>
<td></td>
<td>Windows Defender</td>
<td>304</td>
</tr>
<tr>
<td></td>
<td>Action Center</td>
<td>306</td>
</tr>
<tr>
<td></td>
<td>BitLocker Drive Encryption</td>
<td>309</td>
</tr>
<tr>
<td></td>
<td>Encrypting File System</td>
<td>313</td>
</tr>
<tr>
<td></td>
<td>Securing Internet Explorer</td>
<td>316</td>
</tr>
<tr>
<td></td>
<td>Putting It All Together</td>
<td>318</td>
</tr>
<tr>
<td>17</td>
<td>Cloud Connections</td>
<td>319</td>
</tr>
<tr>
<td></td>
<td>Windows Store</td>
<td>321</td>
</tr>
<tr>
<td></td>
<td>Microsoft Account</td>
<td>326</td>
</tr>
<tr>
<td></td>
<td>Windows Live</td>
<td>331</td>
</tr>
<tr>
<td></td>
<td>Windows Essentials</td>
<td>333</td>
</tr>
<tr>
<td></td>
<td>SkyDrive</td>
<td>337</td>
</tr>
<tr>
<td></td>
<td>Office 2013</td>
<td>342</td>
</tr>
<tr>
<td></td>
<td>Putting It All Together</td>
<td>343</td>
</tr>
</tbody>
</table>

Index | 344
Introduction

Windows 8 represents the most radical departure from previous versions of Windows since the introduction of Windows 95. Windows 95 made Windows come alive by adding the Internet. Windows 8 pays homage to an increasingly mobile world by adding a new application model and a touch-oriented interface. This might come as a shock to many users of previous Windows versions, but Windows 8 is easy to use, and in many ways it is a more refined version of what has gone before. Gone is the Start menu; enter the Start screen.

The new Windows 8-style apps have no windowing system, run in a much smaller memory footprint, and save their contents from memory when you are not using them. Thus, your laptop, tablet, and cell phone will have longer battery life, be more stable, and be less susceptible to crashes. And a lot of behind-the-scenes work has gone into making connecting to networks seamless and pervasive.

When you think about it, an operating system that can use the same basic code to run on devices as diverse as PCs and cell phones is a considerable achievement. No other vendor offers such an operating system. What this means to you is that your applications will be available on—and will behave nearly identically on—all of your devices. When a device doesn’t have a particular feature, the application simply doesn’t implement it. For developers, this means that the expensive up-front development costs of a Windows application may be amortized by having their application run across the entire Windows 8 universe.

The Windows 7-style Desktop has not gone away in Windows 8. You can access the Desktop from a tile on the Start screen, and you can move from the Start screen to the Desktop by pressing the key. Little of the functionality found in Windows 7’s Desktop and its related management applications and control panels has been removed, but Microsoft has duplicated control panel functionality in new, touch-enabled panes called bars.
A The Start screen features Live Tiles, which launch programs and display relevant information.

B The Desktop and its windowing environment have been carried over from Windows 7 to Windows 8. Shown are the familiar taskbar, the windowed version of Internet Explorer 10, and gadgets.
C is an example of how a touch-oriented interface is implemented. Compare Internet Explorer running in the new, tile-based style C to the same browser on the Desktop B. Gone are complex menus; they are replaced by buttons, bars, and very simple pop-up menus. This new type of application, which we will refer to in this book as an app, is simple to learn and simple to use. It will take you a little while to learn all the ins and outs of these apps, but hopefully this book will help you get up and running quickly.

In the new, touch-oriented interface, corners and edges have actions associated with them. Swipe in from the right and you see the Charms bar D, another of Windows 8’s most notable new features. If you select the Settings charm and then click the Change PC settings link, you display the touch-oriented version of the Control Panel. This gives you some idea of how these new features are implemented. But if you don’t have a phone, tablet, or touch screen and want to work with Windows 8 on a PC, don’t worry. Everything you can do with touch gestures, you can do with a mouse and keyboard. This book will show you how.

Is This Book for You?

This book assumes no prior knowledge of the Windows operating system. Perhaps this is your first Windows book—if so, you will learn enough about Windows 8 to perform the most important operations that users must perform in their daily work.

As a Visual QuickStart Guide, this book is meant to help you learn about a feature quickly and perform the task you need with minimum effort. This book doesn’t tell you everything there is to know about a topic and doesn’t delve much into theory, but it does tell you a lot.

What’s in a Name?

These new apps and the tile-based Start screen interface were developed under the code name “Metro.” Unfortunately, just as Windows 8 was coming to market Microsoft learned that the name Metro is the trademarked property of Metro AG, a giant wholesale/retail chain with properties across Europe and Asia. To avoid a costly lawsuit, Microsoft dropped the name Metro from its product literature and website.

The Windows 8 styled name for the Start screen interface itself is still unclear. For the sake of simplicity and clarity, this book calls the new Windows 8 Start screen interface the tiled-based interface and the new style of apps tile-based apps.

The older desktop interface that Windows 7 users are accustomed to is referred to as the Desktop, and the applications built to run in a windowed environment—such as Quicken, Adobe Photoshop, and the Microsoft Office suite—are referred to as legacy applications or Desktop applications.

It’s not pretty folks—but I’m sure you will find that Windows 8 is pretty.

Indeed, the Desktop cannot go away any time soon because billions of dollars of applications run in that environment. But over time, many of these applications will be rebuilt as smaller, more modular apps.
The tile-based Internet Explorer app consumes the entire screen. A bar on the left shows open apps, but this sliding feature isn't usually shown.

The Charms bar (on the right) and the PC settings screen
It would be nice if you had the time to read this book sequentially from cover to cover, but it isn’t essential. Some chapters build on earlier chapters, but most chapters and many of the topics are self-contained. You can jump into this book wherever you need to.

What This Book Will Teach You

There are 17 chapters in this book, each on a separate topic. Here’s a short summary of what you will find in each chapter:

- **Chapter 1**, “Getting Started,” tells you about the different versions of Windows 8, the features they contain, and how to install and upgrade the operating system.
- **Chapter 2**, “The Start Screen,” introduces you to the Start screen, Live Tiles, the Charms bar, the Apps bar, and the other touch-based interface features you need to know to work with the new apps.
- **Chapter 3**, “Touch and Gestures,” tells you how to navigate using touch and, when touch isn’t available, with a mouse and keyboard.
- **Chapter 4**, “The Classic Interface,” is an introduction to the Desktop interface. You will learn about personalizing the screen, using the taskbar, and how windowed applications work.
- **Chapter 5**, “Settings and Customization,” explains how to use control panels and settings to manage your computing environment. This chapter also describes the powerful new search function and the options available to you from the Charms bar.
- **Chapter 6**, “Applications,” describes how to open applications, switch between applications, and organize and modify apps in both Windows 8 interfaces.
- **Chapter 7**, “Windows 8 Tile-Based Apps,” describes the new apps that ship with Windows 8. These apps are cloud-connected to web services and include all manner of people, places, and things. You’ll find a calendar, an address book, media content organizers, and many more apps that have many unique features.
- **Chapter 8**, “Managing Content,” contains an introduction to how data is stored and accessed on your computer. You’ll learn here about file types, the Clipboard, drag and drop, libraries, media lists, and many other topics.
- **Chapter 9**, “Printers and Devices,” describes the different devices that you can connect to a Windows 8 system, and how to configure them so that they work properly. The tile-based interface has a simplified print routine that is described in this chapter.
- **Chapter 10**, “Windows Explorer,” tells you about the main tool that you use to manage files in the file system. Windows Explorer has long been a mainstay in Windows, and Windows 8 makes it more powerful and adds a ribbon interface and some interesting new tools to it.
- **Chapter 11**, “Diagnosis and Recovery,” describes how to solve problems and learn more about how your system is working. This chapter contains information about troubleshooting Windows 8 with new Refresh and Restart commands, how to use the new, much more powerful Task Manager, and much more.
Chapter 12, “Disks and Storage Devices,” tells you about the different types of disks and storage types you can use with Windows 8 and how to prepare them for use. You will learn about disks, volumes, partitions, and more. New features such as Storage Spaces are described in this chapter.

Chapter 13, “Networking,” describes how to connect to networks of all types. Windows 8 relies very heavily on an Internet connection, and a lot of work has gone into making connectivity easier, faster, and more reliable. This is plumbing, but it’s an essential topic. You’ll learn about what’s new in networking in this chapter.

Chapter 14, “Internet Explorer 10,” describes Microsoft’s new web browser. IE10 is one application, but it comes in two forms: one on the Desktop (windowed), and the second in the tile-based interface (where it is full screen). There are many new features in IE10 that enhance security, make browsing easier, and provide faster and smoother performance.

Chapter 15, “Mobile Computing,” describes the features in Windows 8 that support tablets and cell phones. Windows Phone 8 is a significant phone operating system. Some Windows 8 tablets are full-fledged Windows 8 computers, while others—running Windows RT—use only the new, tile-based apps.

Chapter 16, “Security,” is an important chapter because with an Internet-connected device you are always vulnerable. This chapter describes the basic rules you need to follow to be secure, presents Windows 8’s built-in security tools, and explains how you should use them. Read this chapter and you will find out what you can do to avoid intrusions.

Chapter 17, “Cloud Connections,” rounds out this book by describing how Windows 8 leverages a wide variety of Microsoft services on the Internet to add great power to your Windows 8 device. Through the cloud, you can back up your data and settings and synchronize them across many devices. You’ll want to know more about these services, because they make Windows 8 much more powerful and fun to work with. This chapter also presents the new Windows Store, which is where you will get your new-styled apps.

What’s Not in This Book

Windows 8 is a consumer-based operating system in which you start up in the Start screen and the new tile-based interface. That’s fine for devices built for Windows 8, but it presents an issue for Windows 8’s adoption into the corporate world. Windows 8 contains all of the corporate features found in Windows 7; that is, you can join a domain, have domain security, and use group policies. This book does not address Windows 8 in a business context. There’s little discussion of how Windows 8 will be used in a corporate setting. The rationale for this omission is that Windows 8 is built for a world based on BYOD, or Bring Your Own Device, and the corporate world is not there yet.

You also won’t find a lot of computer theory in this book. We don’t tell you about how the Windows 8 operating system runs on hardware and operating system modules, how CPUs operate, or how software instructions are processed through threading.

Virtual machine technology is an advanced topic and is not included in this book, but it
is an important new feature in Windows 8 that many advanced users will find useful. It would really take two books to explain how to use Windows 8 as well as how Windows 8 works (its internals).

There are other worthy topics that didn't make it into this edition of the book. Some of them aren't yet fully developed in Windows 8; this is a new operating system, after all. Other topics, such as gaming, Xbox integration, and in-depth descriptions of individual apps, were dropped to keep the book length reasonable. Applications that are central to Windows 8, such as Internet Explorer and Windows Explorer, are included.

**How This Book Works**

Each chapter is organized around a topic, and each section is generally organized around a task or related set of tasks. In a section, you get a short introduction to the topic, followed by step-by-step instructions on how to perform the tasks. This book tries to cherry-pick the most important task, and when there is a large set of related tasks, the task that is either most important or most representative of the set is included.

You’ll find that the instructions come with graphic icons, screens, and operations that are keyed with circled letters, such as A, B, C, and so on. These figures allow you to stay oriented as you perform these operations, which will allow you to be more successful and accurate.

This version of Windows contains two different interfaces, so as a general rule there is always more than one way to perform an action. Whenever possible, this book tells you how to do things in multiple ways. It’s our belief that the more ways you learn how to perform an action, the greater the chances are that you will remember one of them and get your task done successfully.

Finally, each section ends with a tip that will expand your knowledge of the topic. We hope you will find these tips useful and that your curiosity will lead you to use them to learn more about Windows 8.

**Conventions Used in This Book**

In this book we make it a point to describe a feature not only by its name but by its type as well. For example, a control panel called Devices and Printers is referred to as the Devices and Printers control panel. For menus and commands, we will tell you to, for example, “select the Exit command from the File menu.”

This isn’t a programming book, so there isn’t a lot of code, but when it does appear, it’s in a unique font. When you have to enter text into a field or dialog box, you will see it displayed in bold. The names of links appear in italics.

Acronyms and initialisms—such as PnP, which stands for Plug and Play—are defined when they first appear. Most terms are in the index, if you need to look them up.

One more thing—if you purchased this book, you are entitled to download its electronic version. Peachpit has also recorded to video many of the common operations described in this book for you to use as you need them. People learn in many different ways. A book is one way, but demonstrations in the form of videos are also a powerful way to learn. So please make use of these resources.
For most users, Windows is defined by the Desktop, the Start menu, and the windowing system (I always look at a window to see what operating system a device is running). In the tile-based interface, there’s no Start menu and there are no windows. The Start menu, which was introduced in Windows 95 to the strains of the Rolling Stones’ “Start Me Up,” is gone. But pretty much everything else you’ve grown accustomed to about the Desktop is still there, with a few improvements. It’s a good thing too, because the tens of thousands of applications that depend on the Microsoft windowing system—such as Microsoft Office, Adobe Acrobat, and Intuit Quicken—still require the Desktop to run correctly.

If you long for the days of yesteryear and want to live on the Desktop, this chapter tells you how. For this chapter at least, bid the tile-based interface adieu, don your Mouseketeer hat, and whip out your clicky keyboard.
Start Me Up

The tile-based interface starts by default when you install Windows 8. This is by design, because the tile-based interface works best on mobile devices, and the world of computing looks increasingly mobile. But the Desktop, which is the classic Windows interface, is only a click or two away.

To launch the Desktop:

- If there are open windows, press \+D (for Desktop) to close the windows and show only the Desktop. Press \+D a second time to see the Desktop with all open windows restored.
- Press \ to toggle between the Start screen interface and the Desktop.
- On the Start screen, tap or click the Desktop tile A.
- On the Start screen, tap or click a tile for a legacy application or web page; that item opens on the Desktop.
- On the Start screen, tap or click the lower-left corner of the screen to toggle between the tile-based interface and the Desktop.
- On the Start screen, tap or click the upper-left corner of the display, and cycle through the icons until you can tap or click the Desktop icon.
You might think that the Desktop is an application, because it launches from a tile in the tile-based interface, but it is not. The Desktop is a shell—specifically, a graphical user interface (GUI). In that regard, it is the same thing that the tile-based interface is.

When you install Windows 8, the Desktop tile is placed in another group lower down the screen than is shown in A. In A, the tile has been moved to the upper-left position, which leads me to one of my favorite tips: To move a tile, tap and hold it, and then drag it to a new position; or with the mouse, just drag it.

Tip Press Enter in the tile-based interface to open the upper-left tile A.

Tap or click here to toggle between the Desktop and tile-based interfaces.

A Places in the tile-based interface that take you to the Desktop.

Tap or click here to toggle through open apps to reach the Desktop.
Desktop Elements

The Desktop contains many of the common elements that you’ve grown to know and love: a taskbar, viewable toolbars, icons, and so on. Let’s take a look at what these features do.

- **Icons** represent objects in the file system; you will generally put special folders or program icons on the Desktop.

- **Desktop wallpaper** is a graphic—for show, of course.

- **Gadgets** are little tools or utilities that you add to the Desktop for additional functionality.

- **The Desktop switch** is a button in the lower-right corner that switches from the tile-based interface to the Desktop. (You see the button only when your mouse button is down.)

- **The Notification area** shows icons of various utilities (usually system utilities); it was once called the Status tray.

- **Toolbars** contain related commands or objects that you can place on the taskbar.

- **The taskbar** is a container for toolbars and the Notifications area.

**Tip** In A, you see that the taskbar can be minimized into a hierarchical menu display. This mode mimics a lot of what the Start menu did.

**Tip** Most desktop elements are turned on using the context menu that appears when you either right-click or tap and hold an object.
The Desktop Management Menu

Although the Start menu is gone (sigh), Windows 8 does come with the Desktop Management menu.

To open the Desktop Management menu:

- Right-click the lower-right corner of the Desktop.

The top section of this menu is a list of a few important control panels you will want to open frequently: Programs and Features, Power Options, and Systems—as well as Control Panel itself, which lists the control panels by type.

Other choices open dialog boxes based on an extensible framework called the Microsoft Management Console (MMC), including Device Manager, Disk Management, and Computer Management. Toss in a few important commands like Run (Ctrl+R), Search (Ctrl+F), and Windows Explorer (Ctrl+E), and you have what is essentially a stripped-down Start menu.

The Desktop Management menu contains many of the important commands once found on the Start menu in Windows 7.
The Taskbar

The taskbar offers many shortcuts that can greatly speed up your work. Let’s start by exploring the taskbar’s context menu, because you can use that to open the various toolbars and options.

To view toolbars:
1. Right-click, or tap and hold, the taskbar to view the Taskbar menu A.
2. Select from the Toolbars submenu to display one or all of the toolbars.

To change the height of the taskbar:
1. Deselect the Lock The Taskbar command A to disable it (remove its check mark).
2. Drag the top edge of the taskbar up or down as desired.

Notice that with the taskbar unlocked, each toolbar has a resize edge that you can drag. When you lock the taskbar, toolbars are frozen in position. A in the “Desktop Elements” section shows the toolbars with the taskbar unlocked.

To pin a program icon, folder, or other object to the taskbar:
- Tap and hold, or right-click, the tile for the object in the tile-based interface, and then tap or click the Pin To Taskbar button in the bottom bar B.
- You can also drag an object from the Desktop—a program, a folder, a drive, and so on—onto the taskbar to anchor it there.
To set taskbar options:

Several important options for taskbar icons are set in the Taskbar Properties dialog box. Its command is the bottommost one in the menu shown in A.

- Select the Auto-hide The Taskbar check box to hide the taskbar automatically when it is not in use; tap or click the bottom edge of the screen to restore the taskbar.
- Select the Use Small Taskbar Buttons check box to reduce the size of the icons, which is valuable for work on a smaller screen.
- Select an option from the Taskbar Location On Screen drop-down menu to move the taskbar to different edges of your display.
- Select an option from the Taskbar Buttons drop-down menu to control how multiple instances of open like objects are displayed. (I like to combine them.)
- Select the Use Peek To check box to show a Desktop thumbnail on the Show Desktop button.
- Click the Apply button to enforce the settings you select but continue working in the dialog box.
- Click the OK button to enforce the settings you select and close the dialog box.

Experiment with these options to find the ones you like.

When you hover your cursor over a taskbar icon, it will display thumbnails of windows that you can switch to or close (click the X) D. When you right-click a taskbar icon, the context menu offers you several options, including a jump list of Frequent items E.

> **Tip** To create a new instance of a program or window, hold the Shift key and click its taskbar icon.
Notifications

The Customize button in the Taskbar tab of the Taskbar Properties dialog box allows you to modify the Notification area. You can choose to do the following for all or some tools:

- Show icons and notifications
- Hide icons and notifications
- Show only notifications

The Only Show Notifications option displays the status icon only when there is a message or condition that the program wants you to know about.

The Notification Area Icons dialog box is a control panel. Notification area icon menus typically contain commands that open utilities and control panels. The Date/Time icon is a good example of this behavior.

To change the date or time:

1. Tap, or move your cursor over, the Date/Time icon (at the far right of the taskbar).
2. In the Date/Time pop-up window that appears, click the Change date and time settings link.

   This opens the Date And Time control panel.
3. Make your changes, and then close the control panel.

There are many other ways to get to control panels. For example, you can use the search function in Windows 8 to find a control panel by its name. But using a Notification area icon to launch control panels is one of the easiest methods.

Press **X** to open the Desktop Management menu.
Desktop Operations

The Desktop survives. Once it was plain; for a while, it was “active.” It has been adorned by screen savers, gadget bars, picture shows, themes, and wallpapers—things that were pretty, things that were mesmerizing, things that were useful, and things that went bump in the night. But the Desktop remains.

The Desktop is a container object, just as a folder is. However, the Desktop is a special container because it can not only show files, folders, and object icons, it can contain the taskbar, which you have just seen.

But by far the Desktop’s most important function is as a container of “windows.” Windows are content containers that are controlled by a piece of system software called the Window Manager. Windows are the whole point of the Desktop’s existence. Without windows (lowercase, please), Windows is just another tile-based life form. Let’s start by looking at the Desktop context menu.

To view the Desktop context menu:

Right-click an empty area of the Desktop A.

The View and Sort By submenus contain commands that are typical of folders.

Refresh (F5) updates the Desktop manually.

To select something on the Desktop (or in a window):

- Click the object.
- Drag a selection area around a contiguous range of objects.
- Click at the beginning of a contiguous range of objects, hold the Shift key, and click the end of the range.
- Click the first object in a noncontiguous range, hold the Ctrl key, and click the other objects you want in the range.
To perform window actions on a selection using the Clipboard:

- Press Ctrl+X to delete the object and copy it to the Clipboard system memory.
- Press Ctrl+C to leave the object but place a copy on the Clipboard.
- Press Ctrl+V to paste a copy of the object at your current location.

To perform window actions on a selection using drag and drop:

- Drag selected objects to move them from folder to folder.
- Drag selected objects from one disk to another to make a copy of your selection.
- Hold the Ctrl key while dragging selected objects to make a copy of the objects even if the default action is to move them.
- Hold the Alt key while dragging selected objects to create a shortcut to the objects.
- Press the Delete key to remove any selections and place them in the Recycle bin.
- Drag and drop items into the Recycle bin to delete them.
- Press Ctrl+Z to undo the last action if you make a mistake.

The expanded New command for the Desktop context menu allows you to create files and shortcuts of various types. As you install programs in Windows, additional file types are added. The New Shortcut command opens a wizard that lets you create a shortcut or pointer (what Unix and Linux call a symbolic link) to objects in other locations.

When you delete something, it is not dead. That is, in Windows there are different levels of dead. You can double-click the Recycle bin and use the Restore command to return items to their previous locations. If you've emptied the Recycle bin, then you will need a special third-party undelete program to restore that object. Even then, the object is still on disk until Windows needs to overwrite its location on disk, after which its return is beyond the reach of mere mortals.

Windows gives you visual indicators during the operation to keep you informed.
Personalization

There are many things to play with in the Personalization control panel, and you can have hours of self-indulgent fun there. But let's highlight a few of its more practical features.

To add Desktop icons:

1. Right-click the Desktop and select Personalize from the context menu to view the Personalization control panel.

continues on next page
2. Click the *Change desktop icons* link to view the Desktop Icon Settings dialog box.

3. Make your selections, and then click OK.

Desktop backgrounds are more commonly known as “wallpapers,” and for reasons that escape me, people are truly passionate about them.

**To change the Desktop background:**

1. In the Personalization dialog box, click the Desktop Background icon to view the Desktop Background dialog box.

2. Click the Picture Location drop-down menu, and make a selection from a solid color palette, your Pictures library, or another folder that you designate.

3. Select an option from the Picture Position drop-down menu to fill, fit, stretch, tile, or center the picture.
4. For a slideshow, select a time period from the Change Picture Every drop-down menu. Select the Shuffle check box, if desired.

5. Click the Save Changes button to display your new background.

To change your theme:
A theme is a collection of Desktop backgrounds, Windows color and font styles, system sounds, and other elements all bundled up as a package and applied at once.

- Scroll the central window (marked My Themes in A) and select a new theme.
- Click the Get more themes online link, and find one on Microsoft’s website.

You may want to explore the Change Mouse Pointers and Sound dialog boxes. Click the Change mouse pointers link A to open that dialog box. The Sounds dialog box is opened with the Sounds icon A. Sounds and mouse pointers are part of a theme, along with fonts, window styles, and colors. Mouse pointers are cursor sets that you can apply; several cursor sets are good for the visually impaired, some are helpful on laptops, and a few are simply amusing. Sounds are short clips that play after various window events; changing sound sets has never appealed much to me, but other people like customized sounds.

Themes can apply sets of cursors and sounds, but you can also do this independently, and it does add personality to a system. You can download many more themes from the Microsoft website.
To add a gadget:
Gadgets used to be constrained to the Gadget bar, but now they have been set free to float above your desktop.

1. Right-click the Desktop and select the Gadgets command from the context menu.
   The Gadget gallery appears D.
2. Drag a gadget to your desktop.

Tip Visually impaired users can use the Ease of Access Center to turn on a magnifier, have the Desktop narrated, turn on an onscreen keyboard, and set up a high-contrast display. Click the Ease of Access Center link on the Personalization control panel.
Windowing

As noted, a window is a content container. Desktop windows are of two basic types: modal and non-modal. A non-modal window is one that you can switch out of and then switch back to. A modal window is one that requires you to perform an action before it allows you to do something else. An alert box is an example of a modal window something you must deal with before you can do other work.

In A, a non-modal application window is shown with some of its window interface elements identified. Here you can work in more than one window at the same time. The application is Microsoft Publisher, and the document is an origami crane.
Windows were designed to work with both your mouse and your keyboard. You won’t use touch to use windows of this type.

Here’s a brief description of the important window elements:

- **Title bar.** This bar contains the window name and, usually, the name of the application that is responsible for it. Drag the title bar to move the window from place to place.

  When a title bar has focus, its window is the active window and can be acted upon.

- **Window menu.** The application icon is actually the Window menu, put there to allow you to perform window actions with your keyboard. Click the icon or press Alt+spacebar to reveal commands that allow you to restore, move, size, minimize, maximize, and close (Alt+F4) the window.

  Note that the Window menu and the Quick Launch toolbar shown in are application-specific features (Microsoft Office). Here the application is Publisher, so that icon shows.

- **Restore command.** This command toggles a maximized window back to its previous size.

- **Move command.** This command selects the window and allows you to use the arrow keys or your mouse cursor to move the window in any direction.

- **Size command.** This command allows you to use the arrow keys or your mouse cursor to resize your window.

- **Minimize.** Click this button on the toolbar or select this command to reduce a window to an icon.
- **Maximize.** Click this button on the toolbar or select this command to display a window full screen.

- **Restore.** Click this button on the toolbar or select this command to return the window to its former size (before you minimized or maximized it).

- **Close button.** Click this button or press Alt+F4 to close a window. The application should prompt you to save any changes, if necessary.

  Note that you can press Alt+spacebar to open the Window menu, and then press the underlined key to execute the command. This is a general Windows feature. For example, Alt+N minimizes the window.

- **Window border.** Drag a window border to resize the window in one direction. Use the window corner to resize the window in two directions.

- **Scroll bars.** The scroll bars are used as a visual indicator for your horizontal or vertical position inside the window. Click a scroll bar arrow to move one increment in that direction. Click the scroll bar to move one screen page in that direction. Drag the scroll box (slider) to move the view of the window contents as far as you like.

  There are many keystrokes that move your window view. Use Home to move to the top of the window; End to move to the bottom; and Page Up or Page Down to move up or down one full page or screen. These keystrokes support the vertical toolbar.

  To switch between windows on the Desktop, click a window to make it active or use the Task Switcher.
Sometimes a window can be both modal and non-modal. A modal window is one that requires an action before you can close it or that forces you to act before you can do anything else. Modal windows illustrate some important general window navigation features. \text{C} shows a Save dialog box. It is both non-modal and modal at the same time. You can do things in programs other than Word; but it is a modal window for Word because you can’t do anything else in Word until you dismiss it.

Non-modal windows have the following features:

- **A Default action.** This button is usually drawn with a bold button frame and can be activated by pressing Enter. \text{D} shows the Save button bordered with a blue dotted frame.

- **A Cancel or Escape action.** This removes the dialog box without making changes. Press the Esc key or click the Cancel button to perform this action.

- **A Tab order.** Press the Tab key to move from button to button in the tab order, or press Alt+Tab to move backward in that order.

- **Shortcuts.** Dialog boxes and alert boxes have keystroke equivalents for buttons, fields, and other items. They are usually indicated by underlined letters. Here, you press the S key to perform the Save action.
To use the Task Switcher:

1. Press Alt+Tab to view the Task Switcher.
2. Hold the Alt key down and press the Tab key repeatedly to cycle through all the open windows until the one you want is highlighted.
3. Release the Alt key. You can use Shift+Alt+Tab to move backward through the Tab order.

Tip: Devices such as the Microsoft IntelliMouse and apps such as Move Mouse provide options for manipulating windows—even the elusive scroll right and left functionality.
Putting It All Together

- The Windows Desktop is a graphical user interface required by legacy programs.
- There are many ways to switch between the tile-based interface and the classic Windows Desktop interface.
- The Desktop is a container for various objects, including file system objects, devices, and utilities such as the taskbar and gadgets.
- The taskbar is highly configurable through its Properties dialog box, and you can add toolbars and Notification area icons to it.
- Many Desktop icons provide customization through control panels. A few are found on the Desktop Management menu.
- The Desktop supports standard window-selection techniques, as well as drag-and-drop technology and the Clipboard.
- Among the many personalization features that the Desktop supports are Desktop icons, backgrounds, themes, cursor sets, and system sound sets.
- The Desktop is a container for windows, and windows are a container for content.
- A window contains standard interface elements controlled by the Windows Manager software.
- Non-modal windows allow you to switch out of and then back into them and can be moved or resized.
- Modal windows force you to perform an action before you can close them, or they force you to close them before you can do anything else.
Index

Numbers/Symbols
3-2-1 backup, 299
/? (help switch), 215

A
account picture, changing, 25. See also user accounts
Action Center, 306–308
Add Device wizard, using with printers, 167
administrator privileges, obtaining, 107, 296
Advanced Options menu, booting to, 213
airplane mode, turning on or off, 253
All Apps screen
   launching applications from, 98
   selecting apps in, 34
   toggling with Start screen, 34
Alt key. See keyboard shortcuts
app groups, viewing in miniatures, 48
app tile, adding to Start screen, 36
app toolbars, viewing, 50
application tab order, viewing, 47
application tiles, adding and deleting, 99
applications. See also programs
   closing, 47, 111
   finding, 97
   killing with Task Manager, 199
   launching, 96–99
   learning about, 200
   legacy, 95
   opening, 47
   switching to, 47, 199
   switching via snapping, 108–110
tile-based interface, 95
   viewing open, 47
apps. See also tile-based apps; Windows Store
   closing from keyboard, 111
   open in order bar, 49
   switching, 105–106
   terminating, 207
Apps bar, 30, 33
automatic repair, 211

B
backing up
   3-2-1 method, 299
   with system images, 214
   before upgrading, 15
BIOS, updating, 8
BitLocker Drive Encryption, 309–312
Bluetooth, 257
Blu-ray discs, capacity of, 236
boot logging, enabling, 212
booting to Advanced Options menu, 213
Brightness icon, 84
broadband modem, using for Internet connection, 248
browsing history, deleting, 272

C
Calendar tile-based app, 113
   adding calendars, 121
   adding events, 118–119
   creating calendars, 120
   Day calendar, 121
   modifying events, 120
   Month calendar, 121
   moving backward in time, 120
   moving forward in time, 120
   Week calendar, 121
CD-ROM
   capacity of, 236
   formatting, 237
cell phones. See mobile computing
Charms bar
   displaying, 49
   keyboard shortcut, 22
   Networks bar, 246
   opening, 47
   Power Down menu, 17
   Share charm, 157
   viewing, 31, 50
   viewing highlight of, 47
Check Disk, running, 230
clean install, performing, 9–12
clean versus upgrade install, 14
Clipboard. See also files
  copying to from IE10, 263
  using, 68, 188–189
  using to share content, 156
Clipboard commands, viewing for IE10, 267
Close button, 75
closing applications, 47, 111
cloud connections
  Microsoft account validation service, 326–330
  Office 2013, 342
  SkyDrive, 337–341
  Windows Essentials, 333–336
  Windows Live, 331–332
  Windows Store, 321–325
cloud service connections, adding to People, 117
CMD.EXE MS DOS emulator, 100
Command Prompt
  checking network devices with, 246
  explained, 100
commands, accessing in Management menu, 63
Compatibility tab, 100
computer, naming, 11
Computer Management menu, viewing, 46
content, sharing, 156–159
content management
  homegroups, 150–152
  jump lists, 155
  libraries, 148–149
  media types, 143–144
  Picker, 145–147
  Search function, 153–154
control panels
  Action Center, 306
  described, 80
  Devices and Printers, 165
  opening, 80–82
  Personalization, 69–72
  Power Options, 16
  Recovery, 213
  searching for features, 82
  System, 8
  Windows Firewall, 302
  Windows Update, 177
copy operation, ending and pausing, 190
copying objects, 68
corner hotspots
  lower-left, 46
  lower-right, 48
  upper-left, 47
  upper-right, 47
.cpl files, location of, 82
CPU
  requirements, 6
  utilization of cores, 203
Ctrl key. See keyboard shortcuts
Ctrl+Alt+Delete keystroke, disabling, 93
D
date and time, modifying, 66
debugging, enabling, 212
defragmenting drives, 212–213
deleting
  application tiles, 99
  browsing history, 272
  files, 189
  folders, 189
  legacy programs, 104
  objects, 68
  tile-based apps, 103
Desktop
  commands, 63
  context menu, 67
  launching, 60–61
  Management menu, 63
  opening upper-left tile, 61
  selecting items on, 67
  switching between Start screen, 46
  viewing thumbnail of, 46
Desktop background, changing, 70–71
Desktop elements
  gadgets, 62–63
  icons, 62–63
  Notification area, 62–63
  switch, 62–63
  taskbar, 62–63
  toolbars, 62–63
  turning on, 62
  wallpaper, 62–63
Desktop icons
  adding, 69
  described, 62
  pinning to taskbar, 64
Desktop Management menu, opening, 66
desktop printing. See also printing from tile-based apps
  of files directly, 169
  files from applications, 168
  modifying print queue, 169
  viewing print queue, 169
Desktop windows, 73–76
Details view, displaying properties in, 192
Device Center
  customizing touch mice, 55
  Healthy Computing Guide, 57
Device Manager, 174–175

devices
  adding from Start screen, 170–171
  removing from system, 171
  viewing properties for, 227

Devices charm, opening, 172
diagnostic tool. See Task Manager

DirectAccess, 248
disc types, availability of, 237
Disk Cleanup, running, 229
Disk Management menu commands, 224
disk space requirements, 6
disks, corruptions and errors, 229
DNS server, specifying, 244
double-tap gesture, touch navigation, 45
drag and drop, 68
drive encryption, BitLocker, 309–312
drive with maximum partitions, 224
driver signature enforcement, disabling, 212
drivers, updating, 175

drives
  defragmenting, 231–232
  features, 236
  General properties, 228
  versus optical discs, 236–237
  optimizing, 231–232
  properties and tools, 227–228

Dropbox, sharing files and folders with, 256

DVD
  capacity of, 236
  formatting, 237
dynamic disks
  changing to basic disks, 226
  creating, 225–226
  volumes, 225

E

Ease of Access Center, 72
ease of access tools, turning on, 24
dynamic disks
  changing to basic disks, 226
creating, 225–226
  volumes, 225

EFS (Encrypting File System), 314–315
ELAM (early launch anti-malware driver), disabling, 212

emails. See also Mail app
  creating with Mail, 124
  sharing photos in, 158–159
  viewing with Mail, 123

encryption. See drive encryption

End key, 75

error codes, getting help with, 175
expand gesture, 44

F

F keys. See keyboard shortcuts
Favorite, adding folders to, 183
file properties, viewing, 144
file system
  creating shortcuts, 185
  modifying properties, 191
  moving around, 184–185
  shortcuts, 182
  structure, 182
  viewing properties, 191
  virtual objects, 182

file types, 186

files. See also Clipboard; folders
  ASCII format, 186
  changing default program, 188
  creating quickly, 68
  deleting, 189
  formats, 186
  interchange formats, 186
  inverting selections, 187
  managing, 143
  native formats, 186
  opening, 187
  properties, 141
  renaming, 189
  selecting, 186
  sharing via Dropbox, 256
  text storage, 186

finger actions. See touch navigation

firewalls, 301. See also Windows Firewall

flash drives, formatting, 238–239
folder properties, viewing, 144
folder share, creating, 255–256

folders. See also files
  adding to Favorites, 183
  adding to libraries, 149
  deleting, 189
  deselecting items in, 187
  pinning to taskbar, 64
  renaming, 189
  selecting, 187
  sharing via Dropbox, 256

formatting
  CD-ROMs, 237
  DVDs, 237
  partitions, 221
  USB flash drives, 238–239
  volumes, 218–222
G
gadgets, 62, 72
gestures. See also edge gestures; touch navigation
expand gesture, 44
performing for password pictures, 29
pinch gesture, 44
rotate gesture, 44
swipe gesture, 44–45
tap and hold gesture, 44–45
tap gesture, 44
graphics requirements, 6

H
hard drives
defragmenting, 231–232
features, 236
General properties, 228
versus optical discs, 236–237
optimizing, 231–232
properties and tools, 227–228
hardware, listing details about, 8
Help and Support system, accessing, 85
Help home page, accessing, 18–19
help switch (/?), 215
Home key, 75
homegroups, 150–152
hot corners. See corner hotspots
Hyper-V Virtualization, 7

I
icons
adding, 69
described, 62
pinning to taskbar, 64
IE10 (Internet Explorer 10), 259
activating content, 263
Advanced tab, 276
address bar, 264, 267
Clipboard commands, 267
closing tabs, 266
Connections tab, 276
Content tab, 276
copying to Clipboard, 263
Delete Browsing History command, 316
deleting browsing history, 272
Desktop version, 273–274
displaying Internet options, 272
enabling page encoding, 272
General tab, 276
going to recent pages, 268
help, 277
Internet Options dialog box, 275–276
Next arrow, 262
opening private tab, 266
opening tabs, 265
opening tile-based, 264
Page menu options, 277
Page Tools, 269–270
Previous arrow, 262
Privacy tab, 276
Programs tab, 276
removing geolocation permission, 272
restoring tile for, 268
Safety menu, 277, 316–317
scrolling, 261
searching current page, 269
searching for items, 271
securing, 316–317
Security settings, 317
Security tab, 276
setting home page, 275
settings, 271–272
sharing pages or links, 271–272
showing charms, 272
showing downloads, 277
Start screen file, 268
Tab Tools menu options, 266
thumbnails, 264
tile-based, 260–261
tile-based Charms bar, 271
tile-based versus Desktop, 270
tiles and pinning, 268
toggling between displays, 277
Tools menu options, 277
turning off Flip Ahead function, 272
viewing tabs, 264
zooming in and out, 262, 272, 277
installing programs
from media, 103
in tile-based interface, 102
from web, 102–103
installing Windows 8, 9–12
installs, upgrade versus clean, 14
Internet, using broadband modem for connection, 248
Internet Explorer 10 (IE10). See IE10 (Internet Explorer 10)
Internet protocol Version 4, 244

J
jump lists, 155
jump menu, 65
**K**

keyboard, closing apps from, 111
Keyboard icon, 84
keyboard shortcuts
  Charms bar, 22, 47
  Close command, 75
  Computer Management menu, 46
  Control Panel, 80
copying objects, 68
deleting objects, 68
Desktop Management menu, 66
Devices charm, 172
help on Desktop, 19
launching Desktop, 60–61
Lock screen, 22
pasting copies of objects, 68
Print bar, 172
Print command, 168
Registry, 91
Run dialog box, 80, 88, 107
Search for Settings, 82
Settings bar, 85
shutting down Windows, 16–17
snapped applications, 110
Tab order, 77
Task Manager, 106, 199
Task Switcher, 77
Windows Explorer, 89, 148
keyboards. See touch keyboard
Krogh, Peter, 299

**L**

legacy programs. See also programs
  Exit command, 111
  removing, 104
libraries
  adding folders to, 149
  customizing, 149
  opening, 148
  organization of, 142
  searching, 149
  viewing, 148
Libraries tile, creating, 149
Live Tiles, 39–41
Local Group Policy Editor, 92–93
Lock screen, 22–23
logging in as user, 296
low-resolution video, enabling, 212

**M**

Mail app, downloading from Windows Essentials, 334. See also emails
Mail tile-based app, 113
  adding accounts, 122–123
  creating emails, 124
  requirements, 122
  viewing emails, 123
Malicious Software Removal tool, 305
Maps tile-based app, 114
  getting directions, 139
  My Location button, 139
  viewing maps, 138–139
Maximize command, 75
MBR (master boot record), 223
media types, 143–144
menus, displaying, 50
Messaging tile-based app, 113, 123
Messenger app, downloading from Windows Essentials, 334
metadata, 191
Microsoft account validation service, 326–330
Microsoft Azure, 320
Microsoft Safety Scanner, 305
Microsoft Security Essentials, downloading, 336
Minimize button, 74
minimizing windows, 48
Mirror option, using with volumes, 225
mobile broadband, 289
mobile computing, 279–280. See also Windows Phone 8
  connection priority order, 288
data synchronization, 285–287
Hibernate option on Power menu, 293
netshell command, 289
Power button action, 293
power consumption, 290
smart network switching, 288–289
Sync Your Settings features, 287
Windows Mobility Center, 284
Windows Phone 8, 281–283
Mobility Center. See Windows Mobility Center
mouse. See also touch mice
  snapping with, 109
  using, 46
mouse actions, corresponding gestures for, 45
Move command, 74
move operation, ending and pausing, 190
Movie Maker app, downloading from Windows Essentials, 334
movies, viewing with Video app, 135
Music tile-based app, 113
  adding songs to playlists, 133–134
  creating playlists, 132
  playing songs, 128–131
  saving playlists, 132
  searching for albums, 134
  searching for songs, 134

N
  naming computer, 11
  navigating quickly, 46
  netshell command, 289
  Network and Sharing Center, 242–244.
    See also Share charm
  network connections, 245–246
  network devices, checking, 246
  Network folders, 249–250
  Network icon, 84
  networks
    DirectAccess, 248
    setting up, 247–248
  Networks bar, accessing, 246
  News application, 3
  non-modal windows, 76. See also windows
  Notification area, 62
  Notification icons, altering behavior of, 66
  notifications
    changing date or time, 66
    hiding, 84

O
  object properties, viewing, 144
  objects
    creating quickly, 68
    undeleting, 68
  Office 2013, 342
  operating system, listing details about, 8
  optical discs, 236–237

P
  Page Down button, 75
  Page Up button, 75
  partitions
    creating, 218–222
    extending, 224
    formatting, 221
    maximum number of, 224
    preparing for installation, 11
  passwords
    resetting, 26–27
    strong, 298
  using pictures with, 28–29
  viewing as clear text, 25
  pasting copies of objects, 68
  PC, refreshing and resetting, 208–210
  pen input keyboard, 51, 54
  People tile-based app, 113, 115–116
    adding accounts, 117
    adding contacts, 115–116
    cloud service, 113
  Personalization control panel, 69–72
  Photo Gallery app, downloading from Windows Essentials, 334
  photos, sharing via email, 158–159
  Photos tile-based app, 113. See also pictures
    accessing photos, 125–126
    adding photos, 126
    making background images, 127
    making Live Tile, 127
    navigating, 126
    preventing from opening, 127
  Picker, 145–147
  pictures, using with passwords, 28–29.
    See also Photos tile-based app
  PIN (Personal Identification Number), 26, 29
  Pin To Taskbar button, 64
  pinch gesture, 44
  playlists, 132–134
  policies, 92–93
  Power Down menu, accessing from Charms bar, 17
  power functions, accessing, 25
  Power icon, 84
  Power Options control panel, 16
  power plans, changing for mobile computing, 292
  presence feature, turning on, 41
  Print bar, opening, 172
  Print dialog box, 168
  printer drivers, installing with wizard, 165–167
  printers
    Add Device wizard, 167
    Devices and Printers control panel, 165
    direct connections, 163
    installing from media, 164
    meanings of, 163
    network connections, 163
    wireless connections, 163
  printing from tile-based apps, 172–173.
    See also desktop printing
  processes, terminating, 207
  product key, entering, 10
  program, creating instance of, 65
  program files, locating, 101
program icons, dragging and dropping, 99
programs. See also applications; legacy programs
  closing, 111
  installing from web, 102
  installing in tile-based interfaces, 102
  launching with custom keystrokes, 101
properties
  modifying in file system, 191
  sorting on, 192
  viewing, 144
  viewing in Details view of folder, 192
  viewing in file system, 191
  viewing in Windows Explorer, 142
Properties dialog box
  Acronis Recovery tab, 227
  General tab, 227–228
  Hardware tab, 227
  opening, 101
  Quota tab, 227
  Security tab, 227
  Sharing tab, 227, 256
  Tools tab, 227
  viewing, 228
Q
QWERTY keyboard, 51–52
R
RAID (redundant array of independent disks), 225–226
RAID 1, using with Storage Spaces, 234
RAID 3, using with Storage Spaces, 234
RAM requirements, 6
Reader tile-based app, 113, 136–137
ReadyBoost feature, using with flash drives, 239
receiving command, 215
Recovery control panel, 213
refreshing PCs, 208–210
Registry, 90–91
Repair Your Computer option, 212
resetting PCs, 208–210
Restart option, accessing, 17
Restore command, 68, 74–75
ribbon
  Clipboard group, 188
  Copy To button, 188
  Delete button, 188
  Home tab, 188
  Move To button, 188
  navigating with keyboard, 190
  new folder button, 188
  New group, 188
  Open group, 188
  Organize group, 188
  Properties button, 188
  Redo button, 188
  Rename button, 188
  Search Tools tab, 193
  Select group, 188
  Undo button, 188
  ROM (read-only memory), 236
  Run As Administrator command, 296
  Run dialog box, opening, 80, 88, 107
S
Safe Mode, enabling, 212
Safety & Security Center, 300
Save dialog box, 76
scroll bars, 75
Search app, using, 153–154
Search for Settings, opening, 82
Search function, 141
Search Tools tab of ribbon, 193
searches, performing, 194–195
security, 295
  Action Center, 306–308
  antivirus program, 297
  backing up, 299
  BitLocker Drive Encryption, 309–312
  EFS (Encrypting File System), 313–315
  IE10 (Internet Explorer 10), 316–317
  logging in as user, 296
  Run As Administrator command, 296
  safe computing, 296–300
  strong passwords, 298
  unknown sources, 297
  Windows Defender, 297, 304–305
  Windows Firewall, 297, 301–303
  Windows Update, 296
Security Essentials, downloading, 336
semantic zoom, 45
services
  disabling, 88
  verifying, 88–89
Settings bar, 16, 84–85
  See also Network and Sharing Center
Share feature, 142
sharing files and folders, 256
sharing settings, 254–256
shortcuts, tiles as, 36
Show Administrative Tools, 84
shutting down Windows, 16–17, 85
Sign In screen, 24–25
Size command, 74
SkyDrive app
  accessing, 337
  accessing from browser, 341
  adding files to, 338–339
  downloading from Windows Essentials, 334
  functionality, 337
  opening in Windows Explorer, 340
sleep function, invoking, 16
snapping, 50, 108–110
songs, playing in Music app, 128–131
Span option, using with volumes, 225
speech recognition feature, 54
split keyboard, 51, 53–54
SSDs (solid-state drives), 233
Start screen
  adding app tile to, 36
  adding devices, 170–171
  adding objects to, 35
  All Apps button, 34
  Apps bar, 30, 33
  changing background, 31
  changing colors, 31
  Clear Selection button, 33
  components, 30
  corners, 32
  customization features, 30
  customizing, 32
  design of, 2
  device management, 170–171
  edges, 32
  features, 21
  functionality, 30
  launching applications from, 97
  moving view of, 31
  opening, 31
  personalizing, 31
  reduced tile-based view, 32
  removing tiles from, 36
  selected tiles, 33
  switching between Desktop, 46
  tile group, 33
  tile-based interface, 2
  tiles, 33
  toggling between All Apps screen, 34
  Unpin From Start button, 33
  viewing Charms bar, 31
  viewing connected devices from, 250
  viewing networks from, 250
  viewing thumbnail of, 46
  viewing Windows Update from, 176
startup app, 207
Startup folder, viewing, 89
startup programs, disabling, 88–89
Startup Settings, 211–212
static IP address, assigning, 244
Storage Spaces, 234–235
Stripe option, using with volumes, 225
strong passwords, using, 298
swipe gesture, 44–45. See also gestures
Switch list, context menu in, 110
switching apps, 105–106
System Configuration utility, 207
System control panel, 7–8
system date and time, modifying, 66
System folders, changing defaults for, 144
System Image Recovery, 211
system images, 214–215
system requirements, 6–8
System Restore, 211
T
Tab order, moving backward through, 77
tap and hold gesture, 44–45
tap gesture, 44
Task Manager
  App History tab, 203–204
  creating tasks, 200
  Detailed view, 202
  Details tab, 205–207
  features, 198
  “heat map,” 201
  killing applications, 199
  launching, 199
  opening, 106
  performance tab, 203–204
  Processes tab, 201–202
  recovery environment, 211–213
  Refresh, 208–210
  Reset, 208–210
  Services tab, 205–207
  Startup tab, 205–207
  system images, 214–215
  Users tab, 205–207
Task Switcher, 77, 106
taskbar, 62, 64–65
taskbar icons
  adding, 99
  hovering cursor over, 65
  removing, 99
TCP/IP networking, 245
themes, changing, 71
thumbnails
  using to switch apps, 105
  viewing, 46–47
tile groups, 37–38
Tile settings, 83
tile-based apps. See also apps
  Calendar, 113, 118–121
closing, 111
Mail, 113, 122–124
Maps, 114, 138
Messaging, 113, 122–124
Music, 113, 128–134
News, 3
People, 113, 115–116
Photos, 113, 125–127
Reader, 113, 136–137
removing, 103
Video, 113, 135
tile-based interface
  installing programs in, 102
  resetting to defaults, 84
tile-based view, reducing, 32
tiles
  launching, 35
  moving, 35
  removing from Start screen, 36
  resizing, 37
  selecting, 33, 35
  as shortcuts, 36
time and date, modifying, 66
title bar, 74
toolbars
  contents, 62
  viewing, 64
touch keyboard
  displaying, 53
  opening, 52
  pen input, 51
  QWERTY, 51–52
  split, 51, 53–54
touch mice, 55–57. See also mouse
touch navigation 44–45. See also gestures
TPM (Trusted Platform Module), 7
troubleshooting options, 211

U
UEFI (Unified Extensible Firmware Interface) BIOS, 7
undeleting objects, 68
Update Driver Software command, 175
updating Windows. See Windows Update
upgrade versus clean install, 14
upgrading to Windows 8, 13–15
USB flash drives, 238–239
User Account Control, 307
user accounts. See also account picture
  creating, 12
  switching between, 25
users, disconnecting, 207
Users settings, accessing, 27
utilities, displaying, 84

V
Video tile-based app
  features, 113
  viewing movies, 135
Volume icon, 84
volumes
  assigning drive letters, 220
  encrypting, 310–312
  entering value for size, 220
  extending, 222
  formatting, 218–222
  MBR (master boot record), 223
  Mirror option, 225
  mirrored, 226
  RAID (redundant array of independent disks), 225–226
  shrinking, 223
  Span option, 225
  spanned, 226
  Stripe option, 225
  striped, 226

W
wallpaper, 62
web, installing programs from, 102–103
Wi-Fi networks, connection to, 288–289
window actions
  drag and drop, 68
  performing on selections, 68
Window border, 75
Window commands, 74
windows
  creating instances of, 65
  minimizing, 48
  moving to bottom of, 75
  moving to top of, 75
  non-modal, 76
  resizing, 50
  selecting items in, 67
  snapping, 50
Windows 8
  advantages, 3
  booting without passwords, 28
  clean install, 9–12
  Custom Install option, 10
Enterprise version, 4–5
features, 5
features by version, 5
free trial, 4
installing, 9–12
installing on SSD (solid-state drive), 233
Pro version, 4–5
RT version, 4–5
shutting down, 16–17
Start Normally option, 212
system requirements, 6–8
upgrading to, 13–15
versions, 4
Windows Defender, 297
  Malicious Software Removal tool, 305
Microsoft Safety Scanner, 305
opening, 304–305
running system scan, 305
Windows Essentials
  Codec Pack, 336
  installing, 335–336
Mail app, 334
Messenger app, 334
Movie Maker app, 334
Photo Gallery app, 334
SkyDrive app, 334
Writer blog writer, 334
Windows Experience Index, listing details about, 8
Windows Explorer
  adding folders to Favorites, 183
  address bar, 180–181
  content pane, 180
  creating shortcuts, 184–185
  file system, 182–183
  Folder Options dialog box, 181
  Help, 180
  interface, 180–181
  keyboard shortcut, 89
  layout types, 180
  moving around, 184–185
  navigating tabs, 181
  navigation pane, 180
  opening, 183
  preview pane, 180
  refreshing address bar, 181
  ribbon, 180
  Search, 180
  Toggle button, 180
  viewing connected devices, 250
  viewing libraries, 148
  viewing networks, 250
  viewing properties in, 142
Windows Features, turning on or off, 86–87
Windows Firewall, 297, 301
  allowing applications through, 303
  changing notifications, 302–303
  control panel, 302
  turning on or off, 302
Windows Live
  apps and services, 331
  Hotmail login page, 332
Windows menu, 74
Windows Mobility Center
  features, 284
  opening, 284
Windows Phone 8. See also mobile computing
  common core, 281
  IE10 browser support, 282
  NAVTEQ mapping technology, 283
  NFC technology, 282
  Nokia partnership, 283
  screen resolutions, 282
  Wallet software, 283
  versus Windows Phone 7, 282
  Windows RT operating system, 281
Windows SmartScreen settings, 307–308
Windows Store. See also apps
  app categories, 321
  installing apps, 325
  opening, 322
  purchasing apps, 323
  reviewing apps, 323
  searching, 324
Windows Update, 296
  changing settings, 177
  control panel, 177
  features, 176
  Installed Updates feature, 177
  viewing from Start screen, 176
wireless connections
  airplane mode, 251
  explained, 251
  limited bandwidth, 251
  metered connection option, 251
  settings, 251
wireless networks
  airplane mode, 253
  connecting to manually, 247
  showing data usage, 253
  switching, 252
Writer blog writer, downloading from Windows Essentials, 334
Z
  zoom, semantic, 45