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- Fix privacy, accessibility, and compatibility issues
- Supercharge your efficiency by creating custom styles, themes, and templates

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Microsoft Word 2016
Celebrating over 30 years!
Contents

**Introduction** ................................................................. xiii
  Who this book is for ................................................. xiii
  The *Step by Step* approach ........................................... xiii
  Download the practice files ........................................... xiv
  Ebook edition ........................................................... xvii
  Get support and give feedback ..................................... xvii
    Errata and support ................................................ xiv
    We want to hear from you .......................................... xvii
    Stay in touch ....................................................... xvii

**Part 1: Get started with Word 2016**

**Word 2016 basics** ..................................................... 3
  Start Word ............................................................. 4
  Work in the Word user interface .................................... 5
    Sidebar: About Office ................................................ 6
    Identify app window elements ..................................... 8
    Sidebar: Tell me what you want to do .......................... 12
  Work with the ribbon and status bar ............................. 14
    Sidebar: Adapt procedure steps ................................ 20

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*http://aka.ms/tellpress*
Manage Office and app settings ................................. 21
  Sidebar: Microsoft account options ............................ 22
Skills review ............................................................. 26
Practice tasks ............................................................ 27

Create and manage documents ........................................ 29
  Create documents ..................................................... 30
Open and move around in documents .............................. 36
  Open existing documents .......................................... 36
  Sidebar: Open documents in Protected view .................... 38
  Sidebar: Edit PDF files in Word .................................. 41
    Move around in documents ...................................... 41
Display different views of documents .............................. 46
Display and edit file properties .................................... 53
Save and close documents ............................................ 54
  Manually save documents ........................................ 55
  Sidebar: Save files to OneDrive ................................ 58
  Automatically save documents ................................... 59
Save documents in other formats ................................... 60
  Sidebar: Maintain compatibility with earlier versions of Word . 63
Close documents ..................................................... 64
Skills review ............................................................. 64
Practice tasks ............................................................ 65

Enter and edit text ..................................................... 69
  Enter and import text .............................................. 70
    Sidebar: Import text from multiple documents ............... 72
Move, copy, and delete text ......................................... 72
    Sidebar: Paste options .......................................... 78
Find and replace text ................................................ 81
Part 2: Create professional documents
Organize information in columns and tables .................. 149
Present information in columns ........................................ 150
Create tabbed lists ......................................................... 157
Present information in tables ............................................. 159
Sidebar: Insert an Excel spreadsheet ................................ 162
Sidebar: Other table layout options ................................. 168
Format tables ............................................................... 175
Sidebar: Quick Tables ................................................ 180
Skills review ............................................................... 181
Practice tasks ............................................................. 182

Add simple graphic elements ................................. 185
Insert, move, and resize pictures .................................... 186
Sidebar: Graphic formats ............................................ 189
Edit and format pictures ................................................... 190
Sidebar: Add video content to documents ......................... 199
Insert screen clippings .................................................... 200
Draw and modify shapes ................................................... 202
Draw and add text to shapes ............................................ 203
Sidebar: Use the drawing canvas to draw shapes ................ 203
Sidebar: Locate additional formatting commands .............. 204
Move and modify shapes ................................................... 205
Format shapes ............................................................... 207
Sidebar: Insert symbols ................................................... 210
Add WordArt text ........................................................ 211
Skills review ............................................................... 213
Sidebar: Format the first letter of a paragraph as a drop cap .......................... 214
Practice tasks ............................................................. 215
Part 3: Enhance document content

7
Insert and modify diagrams ..................................................... 221
Create diagrams ....................................................................... 222
Modify diagrams .................................................................... 227
Create picture diagrams ......................................................... 233
Skills review .......................................................................... 236
Practice tasks .......................................................................... 237

8
Insert and modify charts .......................................................... 241
Create charts ........................................................................... 242
Modify charts .......................................................................... 246
  Manage chart data .............................................................. 246
  Modify the display of chart elements .................................... 250
  Sidebar: Pie charts ............................................................ 255
Format charts ........................................................................... 255
Skills review .......................................................................... 259
  Sidebar: Custom chart templates ......................................... 260
Practice tasks .......................................................................... 261

9
Add visual elements ............................................................... 265
Format the page background .................................................... 266
Insert a background watermark ................................................ 272
Insert headers, footers, and page numbers .............................. 276
Insert preformatted document parts ........................................ 281
  Sidebar: Insert and link custom text boxes ............................ 288
Build equations ....................................................................... 289
  Sidebar: The Equation Options dialog box ........................... 291
Skills review .......................................................................... 294
  Sidebar: Set mathematical AutoCorrect options ..................... 295
Practice tasks .......................................................................... 296
Organize and arrange content .......................................................... 299
Reorganize document outlines .......................................................... 300
  Manage content in the Navigation pane ........................................... 300
  Manage content in Outline view ..................................................... 302
Arrange objects on a page ............................................................. 305
Use tables to control page layout .................................................... 316
Skills review ................................................................................. 318
Practice tasks ................................................................................. 319

Part 4: Review and finalize documents

Collaborate on documents .............................................................. 325
Mark up documents ......................................................................... 326
  Insert comments ........................................................................... 326
  Track changes ............................................................................. 329
Display and review document markup .......................................... 332
  Display markup ............................................................................ 332
  Review and respond to comments ............................................... 338
  Review and process tracked changes .......................................... 340
Sidebar: Remember to check for errors ........................................ 343
Compare and merge documents ...................................................... 343
  Compare and combine separate copies of a document ............... 344
  Compare separate versions of a document ................................ 346
Control content changes ............................................................... 347
  Restrict actions ........................................................................ 348
  Restrict access by using a password ............................................ 354
Sidebar: Restrict access by using rights management .................. 359
Coauthor documents ...................................................................... 359
Skills review ................................................................................. 363
Practice tasks ................................................................................. 364
Part 5: Use advanced Word functions
## Merge data with documents and labels

- Understand the mail merge process ............................................. 444
- Start the mail merge process ...................................................... 445
  - Get started with letters ....................................................... 446
  - Get started with labels .......................................................... 447
  - Get started with email messages .......................................... 450
- Choose and refine the data source .............................................. 452
  - Select an existing data source ............................................... 453
  - Create a new data source ...................................................... 456
  - Refine the data source records .............................................. 457
- Sidebar: Refresh data .............................................................. 462
- Insert merge fields ................................................................. 462
- Preview and complete the merge ............................................... 465
- Create individual envelopes and labels ..................................... 468
  - Generate individual envelopes ............................................ 468
  - Generate individual mailing labels ..................................... 472
- Skills review ........................................................................... 474
- Practice tasks .......................................................................... 475

## Create custom document elements

- Create and modify styles .......................................................... 480
- Create and manage custom themes ............................................. 487
- Create and attach templates ..................................................... 489
- Create custom building blocks ................................................. 493
- Skills review ........................................................................... 497
- Practice tasks .......................................................................... 498
16

Customize options and the user interface ........................................ 501

Change default Word options .......................................................... 502
  Manage general Office and Word options ................................... 503
  Manage display options .............................................................. 507
  Manage proofing options ............................................................ 508
  Manage file saving options .......................................................... 513
  Manage language options ............................................................ 516
  Manage advanced options ........................................................... 519

Customize the Quick Access Toolbar .............................................. 524

Customize the ribbon ................................................................. 529

Manage add-ins and security options ............................................. 534
  Manage add-ins .......................................................................... 534
  Configure Trust Center options .................................................. 537

Skills review .................................................................................. 543

Practice tasks ................................................................................ 544

Keyboard shortcuts ......................................................................... 547

Glossary ......................................................................................... 573

Index .............................................................................................. 583

About the author ............................................................................. 604

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Introduction

Welcome! This *Step by Step* book has been designed so you can read it from the beginning to learn about Microsoft Word 2016 and then build your skills as you learn to perform increasingly specialized procedures. Or, if you prefer, you can jump in wherever you need ready guidance for performing tasks. The how-to steps are delivered crisply and concisely—just the facts. You’ll also find informative, full-color graphics that support the instructional content.

Who this book is for

*Microsoft Word 2016 Step by Step* is designed for use as a learning and reference resource by home and business users of Microsoft Office programs who want to use Word to create and edit documents. The content of the book is designed to be useful for people who have previously used earlier versions of Word and for people who are discovering Word for the first time.

The *Step by Step* approach

The book’s coverage is divided into parts representing general Word skill sets. Each part is divided into chapters representing skill set areas, and each chapter is divided into topics that group related skills. Each topic includes expository information followed by generic procedures. At the end of the chapter, you’ll find a series of practice tasks you can complete on your own by using the skills taught in the chapter. You can use the practice files that are available from this book’s website to work through the practice tasks, or you can use your own files.
Download the practice files

Before you can complete the practice tasks in this book, you need to download the book’s practice files to your computer from http://aka.ms/word2016sbs/downloads. Follow the instructions on the webpage.

**IMPORTANT** Word 2016 is not available from the book’s website. You should install that app before working through the procedures and practice tasks in this book.

You can open the files that are supplied for the practice tasks and save the finished versions of each file. If you later want to repeat practice tasks, you can download the original practice files again.

**SEE ALSO** For information about opening and saving files, see “Open and move around in documents” in Chapter 2, “Create and manage documents.”

The following table lists the practice files for this book.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Folder</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part 1: Get started with Word 2016</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1: Word 2016 basics</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>2: Create and manage documents</td>
<td>Ch02</td>
<td>DisplayViews.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EditProperties.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NavigateFiles.docx</td>
</tr>
<tr>
<td>3: Enter and edit text</td>
<td>Ch03</td>
<td>EditText.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FindText.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ImportText.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ResearchText.docx</td>
</tr>
<tr>
<td><strong>Part 2: Create professional documents</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: Modify the structure and appearance of text</td>
<td>Ch04</td>
<td>ApplyStyles.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ChangeTheme.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateLists.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FormatCharacters.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FormatParagraphs.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>StructureContent.docx</td>
</tr>
<tr>
<td>Chapter</td>
<td>Folder</td>
<td>File</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>5: Organize information in columns and tables</td>
<td>Ch05</td>
<td>AddColumns.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateTabbedLists.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateTables.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FormatTables.docx</td>
</tr>
<tr>
<td>6: Add simple graphic elements</td>
<td>Ch06</td>
<td>AddWordArt.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bamboo1.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EditPictures.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertClippings.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertPictures.docx</td>
</tr>
<tr>
<td>Part 3: Enhance document content</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7: Insert and modify diagrams</td>
<td>Ch07</td>
<td>Chickens.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateDiagrams.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreatePictograms.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ModifyDiagrams.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penguins.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tiger.jpg</td>
</tr>
<tr>
<td>8: Insert and modify charts</td>
<td>Ch08</td>
<td>CreateCharts.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FormatCharts.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ModifyCharts.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Temperatures.xlsx</td>
</tr>
<tr>
<td>9: Add visual elements</td>
<td>Ch09</td>
<td>AddWatermarks.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clouds.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertBuildingBlocks.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertHeadersFooters.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OTSI-Logo.png</td>
</tr>
<tr>
<td>10: Organize and arrange content</td>
<td>Ch10</td>
<td>ArrangeObjects.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bamboo1.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bamboo2.jpg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ControlLayout.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ReorganizeOutlines.docx</td>
</tr>
<tr>
<td>Chapter</td>
<td>Folder</td>
<td>File</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>Part 4: Review and finalize documents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11: Collaborate on documents</td>
<td>Ch11</td>
<td>ControlChanges.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MergeDocs1.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MergeDocs2.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ReviewComments.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TrackChanges.docx</td>
</tr>
<tr>
<td>12: Finalize and distribute documents</td>
<td>Ch12</td>
<td>ControlLayout.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CorrectErrors.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PrepareDocument.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PreviewPages.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PrintDocument.docx</td>
</tr>
<tr>
<td>Part 5: Use advanced Word functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13: Reference content and content sources</td>
<td>Ch13</td>
<td>CompileBibliography.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateIndexes.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateTOC.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DisplayFields.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertBookmarks.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertFootnotes.docx</td>
</tr>
<tr>
<td>14: Merge data with documents and labels</td>
<td>Ch14</td>
<td>CreateEnvelopes.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CustomerList.xlsx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>InsertFields.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PolicyholdersList.xlsx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RefineData.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>StartMerge.docx</td>
</tr>
<tr>
<td>15: Create custom document elements</td>
<td>Ch15</td>
<td>ChangeTheme.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateBuildingBlocks.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateStyles.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateTemplates.docx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CreateThemes.docx</td>
</tr>
<tr>
<td>16: Customize options and the user interface</td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>
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Modify the structure and appearance of text

Documents contain text that conveys information to readers, but the appearance of the document content also conveys a message. You can provide structure and meaning by formatting the text in various ways. Word 2016 provides a variety of simple-to-use tools that you can use to apply sophisticated formatting and create a navigational structure.

In a short document or one that doesn’t require a complex navigational structure, you can easily format words and paragraphs so that key points stand out and the structure of your document is clear. You can achieve dramatic flair by applying predefined WordArt text effects. To keep the appearance of documents and other Microsoft Office files consistent, you can format document elements by applying predefined sets of formatting called styles. In addition, you can change the fonts, colors, and effects throughout a document with one click by applying a theme.

This chapter guides you through procedures related to applying character and paragraph formatting, structuring content manually, creating and modifying lists, applying styles to text, and changing a document’s theme.

In this chapter
- Apply paragraph formatting
- Structure content manually
- Apply character formatting
- Create and modify lists
- Apply built-in styles to text
- Change the document theme

Practice files

For this chapter, use the practice files from the Word2016SBS\Ch04 folder. For practice file download instructions, see the introduction.
Apply paragraph formatting

A paragraph is created by entering text and then pressing the Enter key. A paragraph can contain one word, one sentence, or multiple sentences. Every paragraph ends with a paragraph mark, which looks like a backward P (¶). Paragraph marks and other structural characters (such as spaces, line breaks, and tabs) are usually hidden, but you can display them. Sometimes displaying these hidden characters makes it easier to accomplish a task or understand a structural problem.

SEE ALSO For information about working with hidden structural characters, see “Structure content manually” later in this chapter.

You can change the look of a paragraph by changing its indentation, alignment, and line spacing, in addition to the space before and after it. You can also put borders around it and shade its background. Collectively, the settings you use to vary the look of a paragraph are called paragraph formatting.

You can modify a paragraph’s left and right edge alignment and vertical spacing by using tools on the Home tab of the ribbon, and its left and right indents from the Home tab or from the ruler. The ruler is usually hidden to provide more space for the document content.

The left indent can be changed from the Home tab or the ruler

If you modify a paragraph and aren’t happy with the changes, you can restore the original paragraph and character settings by clearing the formatting to reset the paragraph to its base style.

SEE ALSO For information about styles, see “Apply built-in styles to text” later in this chapter.
When you want to make several adjustments to the alignment, indentation, and spacing of selected paragraphs, it is sometimes quicker to make changes in the Paragraph dialog box than to click buttons and drag markers.

The Paragraph dialog box

Configure alignment

The alignment settings control the horizontal position of the paragraph text between the page margins. There are four alignment options:

- **Align Left** This is the default paragraph alignment. It sets the left end of each line of the paragraph at the left page margin or left indent. It results in a straight left edge and a ragged right edge.

- **Align Right** This sets the right end of each line of the paragraph at the right page margin or right indent. It results in a straight right edge and a ragged left edge.

- **Center** This centers each line of the paragraph between the left and right page margins or indents. It results in ragged left and right edges.

- **Justify** This alignment adjusts the spacing between words so that the left end of each line of the paragraph is at the left page margin or indent and the right end of each line of the paragraph (other than the last line) is at the right margin or indent. It results in straight left and right edges.
The icons on the alignment buttons on the ribbon depict the effect of each alignment option.

**To open the Paragraph dialog box**

1. Do either of the following:
   - On the **Home** tab or the **Layout** tab, in the **Paragraph** group, click the **Paragraph** dialog box launcher.
   - On the **Home** tab, in the **Paragraph** group, click the **Line and Paragraph Spacing** button, and then click **Line Spacing Options**.

**To set paragraph alignment**

1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.

2. Do either of the following:
   - On the **Home** tab, in the **Paragraph** group, click the **Align Left**, **Center**, **Align Right**, or **Justify** button.
   - Open the **Paragraph** dialog box. On the **Indents and Spacing** tab, in the **General** area, click **Left**, **Centered**, **Right**, or **Justified** in the **Alignment** list.

**Configure vertical spacing**

Paragraphs have two types of vertical spacing:

- **Paragraph spacing** The space between paragraphs, defined by setting the space before and after each paragraph. This space is usually measured in points.

- **Line spacing** The space between the lines of the paragraph, defined by setting the height of the lines either in relation to the height of the text (Single, Double, or a specific number of lines) or by specifying a minimum or exact point measurement.

The default line spacing for documents created in Word 2016 is 1.08 lines. Changing the line spacing changes the appearance and readability of the text in the paragraph and, of course, also changes the amount of space it occupies on the page.
The effect of changing line spacing

You can set the paragraph and line spacing for individual paragraphs and for paragraph styles. You can quickly adjust the spacing of most content in a document by selecting an option from the Paragraph Spacing menu on the Design tab. (Although the menu is named Paragraph Spacing, the menu options control both paragraph spacing and line spacing.) These options, which are named by effect rather than by specific measurements, work by modifying the spacing of the Normal paragraph style and any other styles that depend on the Normal style for their spacing. (In standard templates, most other styles are based on the Normal style.) The Paragraph Spacing options modify the Normal style in only the current document, and do not affect other documents.

The following table describes the effect of each Paragraph Spacing option on the paragraph and line spacing settings.

<table>
<thead>
<tr>
<th>Paragraph spacing option</th>
<th>Before paragraph</th>
<th>After paragraph</th>
<th>Line spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>Spacing options are controlled by the style set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Paragraph Space</td>
<td>0 points</td>
<td>0 points</td>
<td>1 line</td>
</tr>
<tr>
<td>Compact</td>
<td>0 points</td>
<td>4 points</td>
<td>1 line</td>
</tr>
<tr>
<td>Tight</td>
<td>0 points</td>
<td>6 points</td>
<td>1.15 lines</td>
</tr>
<tr>
<td>Open</td>
<td>0 points</td>
<td>10 points</td>
<td>1.15 lines</td>
</tr>
<tr>
<td>Relaxed</td>
<td>0 points</td>
<td>6 points</td>
<td>1.5 lines</td>
</tr>
<tr>
<td>Double</td>
<td>0 points</td>
<td>8 points</td>
<td>2 lines</td>
</tr>
</tbody>
</table>
To quickly adjust the vertical spacing before, after, and within all paragraphs in a document

1. On the Design tab, in the Document Formatting group, click the Paragraph Spacing button to display the Paragraph Spacing menu.

Each paragraph spacing option controls space around and within the paragraph

2. Click the option you want to apply to all of the paragraphs in the document.

To adjust the spacing between paragraphs

1. Select all the paragraphs you want to adjust.
2. On the Layout tab, in the Paragraph group, adjust the Spacing Before and Spacing After settings.

The settings in the Spacing boxes are measured in points
To adjust spacing between the lines of paragraphs

1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.

2. To make a quick adjustment to selected paragraphs, on the Home tab, in the Paragraph group, click Line And Paragraph Spacing, and then click any of the line spacing commands on the menu.

You can choose from preset internal line spacing options or adjust paragraph spacing

You can also adjust the space before and after selected paragraphs from the Line And Paragraph Spacing menu. Clicking one of the last two options adds or removes a preset amount of space between the selected paragraphs.

Or

1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.

2. Open the Paragraph dialog box. On the Indents and Spacing tab, in the Spacing area, make the adjustments you want to the paragraph spacing, and then click OK.
Configure indents

In Word, you don’t define the width of paragraphs and the length of pages by defining the area occupied by the text; instead, you define the size of the white space—the left, right, top, and bottom margins—around the text.

SEE ALSO For information about setting margins, see “Preview and adjust page layout” in Chapter 12, “Finalize and distribute documents.” For information about sections, see “Control what appears on each page” in the same chapter.

Although the left and right margins are set for a whole document or for a section of a document, you can vary the position of the paragraphs between the margins by indenting the left or right edge of the paragraph.

A paragraph indent is the space from the page margin to the text. You can change the left indent by clicking buttons on the Home tab, or you can set the indents directly on the ruler. Three indent markers are always present on the ruler:

- **Left Indent** This defines the outermost left edge of each line of the paragraph.
- **Right Indent** This defines the outermost right edge of each line of the paragraph.
- **First Line Indent** This defines the starting point of the first line of the paragraph.

The ruler indicates the space between the left and right page margins in a lighter color than the space outside of the page margins.
The default setting for the Left Indent and First Line Indent markers is 0.0", which aligns with the left page margin. The default setting for the Right Indent marker is the distance from the left margin to the right margin. For example, if the page size is set to 8.5" wide and the left and right margins are set to 1.0", the default Right Indent marker setting is 6.5".

You can arrange the Left Indent and First Line Indent markers to create a hanging indent or a first line indent. Hanging indents are most commonly used for bulleted and numbered lists, in which the bullet or number is indented less than the main text (essentially, it is outdented). First line indents are frequently used to distinguish the beginning of each subsequent paragraph in documents that consist of many consecutive paragraphs of text. Both types of indents are set by using the First Line Indent marker on the ruler.

**TIP** The First Line Indent marker is linked to the Left Indent marker. Moving the Left Indent marker also moves the First Line Indent marker, to maintain the first line indent distance. You can move the First Line Indent marker independently of the Left Indent marker to change the first line indent distance.

To display the ruler

1. On the View tab, in the Show group, select the Ruler check box.

**TIP** In this book, we show measurements in inches. If you want to change the measurement units Word uses, open the Word Options dialog box. On the Advanced page, in the Display area, click the units you want in the Show Measurements In Units Of list. Then click OK.

To indent or outdent the left edge of a paragraph

1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.

2. Do any of the following:
   - On the Home tab, in the Paragraph group, click the Increase Indent or Decrease Indent button to move the left edge of the paragraph in 0.25" increments.
TIP You cannot increase or decrease the indent beyond the margins by using the Increase Indent and Decrease Indent buttons. If you do need to extend an indent beyond the margins, you can do so by setting negative indentation measurements in the Paragraph dialog box.

- Open the Paragraph dialog box. On the Indents and Spacing tab, in the Indentation area, set the indent in the Left box, and then click OK.
- On the ruler, drag the Left Indent marker to the ruler measurement at which you want to position the left edge of the body of the paragraph.

To create a hanging indent or first line indent
1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.
2. Open the Paragraph dialog box. On the Indents and Spacing tab, in the Indents area, click First line or Hanging in the Special box.
3. In the By box, set the amount of the indent, and then click OK.

Or
1. Set the left indent of the paragraph body.
2. On the ruler, drag the First Line Indent marker to the ruler measurement at which you want to begin the first line of the paragraph.

To indent or outdent the right edge of a paragraph
1. Position the cursor anywhere in the paragraph, or select all the paragraphs you want to adjust.
2. Do either of the following:
   - On the ruler, drag the Right Indent marker to the ruler measurement at which you want to set the maximum right edge of the paragraph.
   - Open the Paragraph dialog box. On the Indents and Spacing tab, in the Indentation area, set the right indent in the Right box, and then click OK.

TIP Unless the paragraph alignment is justified, the right edge of the paragraph will be ragged, but no line will extend beyond the right indent or outdent.
Configure paragraph borders and shading

To make a paragraph really stand out, you might want to put a border around it or shade its background. (For real drama, you can do both.) You can select a predefined border from the Borders menu, or design a custom border in the Borders And Shading dialog box.

![Borders and Shading dialog box]

*You can customize many aspects of the border*

After you select the style, color, width, and location of the border, you can click the Options button to specify its distance from the text.

Structure content manually

At times it’s necessary to manually position text within a paragraph. You can do this by using two different hidden characters: line breaks and tabs. These characters are visible only when the option to show paragraph marks and formatting symbols is turned on.
The hidden characters have distinctive appearances:

- A line break character looks like a bent left arrow: ⚵
- A tab character looks like a right-pointing arrow: →

You can use a line break, also known as a soft return, to wrap a line of a paragraph in a specific location without ending the paragraph. You might use this technique to display only specific text on a line, or to break a line before a word that would otherwise be hyphenated.

**TIP** Inserting a line break does not start a new paragraph, so when you apply paragraph formatting to a line of text that ends with a line break, the formatting is applied to the entire paragraph, not only to that line.

**SEE ALSO** For information about page and section breaks, see “Control what appears on each page” in Chapter 12, “Finalize and distribute documents.”

A tab character defines the space between two document elements. For example, you can separate numbers from list items, or columns of text, by using tabs. You can then set tab stops that define the location and alignment of the tabbed text.

![Tab settings](image)

**You can align text in different ways by using tabs**

You can align lines of text in different locations across the page by using tab stops. The easiest way to set tab stops is directly on the horizontal ruler. By default, Word sets left-aligned tab stops every half inch (1.27 centimeters). (The default tab stops aren’t shown on the ruler.) To set a custom tab stop, start by clicking the Tab button (located at the intersection of the vertical and horizontal rulers) until the type of tab stop you want appears.
You have the following tab options:

- **Left Tab** Aligns the left end of the text with the tab stop
- **Center Tab** Aligns the center of the text with the tab stop
- **Right Tab** Aligns the right end of the text with the tab stop
- **Decimal Tab** Aligns the decimal point in the text (usually a numeric value) with the tab stop
- **Bar Tab** Draws a vertical line at the position of the tab stop

If you find it too difficult to position tab stops on the ruler, you can set, clear, align, and format tab stops from the Tabs dialog box.

*You can specify the alignment and tab leader for each tab*
You might also work from this dialog box if you want to use tab leaders—visible marks such as dots or dashes connecting the text before the tab with the text after it. For example, tab leaders are useful in a table of contents to carry the eye from the text to the page number.

When you insert tab characters, the text to the right of the tab character aligns on the tab stop according to its type. For example, if you set a center tab stop, pressing the Tab key moves the text so that its center is aligned with the tab stop.

**To display or hide paragraph marks and other structural characters**

1. Do either of the following:
   - On the Home tab, in the Paragraph group, click the Show/Hide ¶ button.
   - Press Ctrl+Shift+* (asterisk).

**To insert a line break**

1. Position the cursor where you want to break the line.
2. Do either of the following:
   - On the Layout tab, in the Page Setup group, click Breaks, and then click Text Wrapping.
   - Press Shift+Enter.

**To insert a tab character**

1. Position the cursor where you want to add the tab character.
2. Press the Tab key.

**To open the Tabs dialog box**

1. Select any portion of one or more paragraphs that you want to manage tab stops for.
2. Open the Paragraph dialog box.
3. In the lower-left corner of the Indents and Spacing tab, click the Tabs button.
To align a tab and set a tab stop

1. Select any portion of one or more paragraphs that you want to set the tab stop for.

2. Click the Tab button at the left end of the ruler to cycle through the tab stop alignments, in this order: Left, Center, Right, Decimal, Bar.

3. When the Tab button shows the alignment you want, click the ruler at the point where you want to set the tab.

**TIP** When you manually align a tab and set a tab stop, Word removes any default tab stops to the left of the one you set.

Or

1. Open the Tabs dialog box.

2. In the Tab stop position box, enter the position for the new tab stop.

3. In the Alignment and Leader areas, set the options you want for this tab stop.

4. Click Set to set the tab, and then click OK.

To change the position of an existing custom tab stop

1. Do either of the following:
   - Drag the tab marker on the ruler.
   - Open the Tabs dialog box. In the Tab stop position list, select the tab stop you want to change. Click the Clear button to clear the existing tab stop. Enter the replacement tab stop position in the Tab stop position box, click Set, and then click OK.

To remove a custom tab stop

1. Do either of the following:
   - Drag the tab marker away from the ruler.
   - In the Tabs dialog box, select the custom tab stop in the Tab stop position list, click Clear, and then click OK.
Apply character formatting

The appearance of your document helps to convey not only the document’s message but also information about the document’s creator—you. A neatly organized document that contains consistently formatted content and appropriate graphic elements, and that doesn’t contain spelling or grammatical errors, invokes greater confidence in your ability to provide any product or service.

Earlier in this chapter, you learned about methods of applying formatting to paragraphs. This topic covers methods of formatting the text of a document. Formatting that you apply to text is referred to as character formatting. In Word documents, you can apply three types of character formatting:

- Individual character formats including font, font size, bold, italic, underline, strikethrough, subscript, superscript, font color, and highlight color
- Artistic text effects that incorporate character outline and fill colors
- Preformatted styles associated with the document template, many of which convey structural information (such as titles and headings)

When you enter text in a document, it is displayed in a specific font. By default, the font used for text in a new blank document is 11-point Calibri, but you can change the font of any element at any time. The available fonts vary from one computer to another, depending on the apps installed.

You can vary the look of a font by changing the following attributes:

- **Size** Almost every font has a range of sizes you can select from. (Sometimes you can set additional sizes beyond those listed.) The font size is measured in points, from the top of the ascenders to the bottom of the descenders. A point is approximately 1/72 of an inch (about 0.04 centimeters).

- **Style** Almost every font has a range of font styles. The most common are regular (or plain), italic, bold, and bold italic.

- **Effects** Fonts can be enhanced by applying effects, such as underlining, small capital letters (small caps), or shadows.

- **Character spacing** You can alter the spacing between characters by pushing them apart or squeezing them together.

Although some attributes might cancel each other out, they are usually cumulative. For example, you might use a bold font style in various sizes and various shades of green to make words stand out in a newsletter.
You apply character formatting from one of three locations:

- **Mini Toolbar** Several common formatting buttons are available on the Mini Toolbar that appears when you select text.

  \[Image of Mini Toolbar\]

  *The Mini Toolbar appears temporarily when you select text, becomes transparent when you move the pointer away from the selected text, and then disappears entirely*

- **Font group on the Home tab** This group includes buttons for changing the font and most of the font attributes you are likely to use.

  \[Image of Font group on Home tab\]

  *The most common font formatting commands are available on the Home tab*

- **Font dialog box** Less-commonly applied attributes such as small caps and special underlining are available from the Font dialog box.

  \[Image of Font dialog box\]

  *Font attributes that aren’t available on the Home tab can be set here*
In addition to applying character formatting to change the look of characters, you can apply predefined text effects (sometimes referred to as *WordArt*) to a selection to add more zing. The available effects match the current theme colors.

These effects are somewhat dramatic, so you’ll probably want to restrict their use to document titles and similar elements to which you want to draw particular attention.

**To change the font of selected text**

1. On the **Mini Toolbar** or in the **Font** group on the **Home** tab, in the **Font** list, click the font you want to apply.

**To change the font size of selected text**

1. Do any of the following on the **Mini Toolbar** or in the **Font** group on the **Home** tab:
   - In the **Font Size** list, click the font size you want to apply.
   - In the **Font Size** box, enter the font size you want to apply (even a size that doesn’t appear in the list). Then press the **Enter** key.
   - To increase the font size in set increments, click the **Increase Font Size** button, or press **Ctrl+>**.
   - To decrease the font size in set increments, click the **Decrease Font Size** button, or press **Ctrl+<**.
To format selected text as bold, italic, or underlined

1. Do any of the following:
   - On the Mini Toolbar, click the **Bold**, **Italic**, or **Underline** button.
   - On the **Home** tab, in the **Font** group, click the **Bold**, **Italic**, or **Underline** button.
   - Press **Ctrl+B** to format the text as bold.
   - Press **Ctrl+I** to format the text as italic.
   - Press **Ctrl+U** to underline the text.

**TIP** To quickly apply a different underline style to selected text, click the arrow next to the Underline button on the Home tab, and then in the list, click the underline style you want to apply.

To cross out selected text by drawing a line through it

1. On the **Home** tab, in the **Font** group, click the **Strikethrough** button.

To display superscript or subscript characters

1. Select the characters you want to reposition.
2. On the **Home** tab, in the **Font** group, do either of the following:
   - Click the **Subscript** button to shift the characters to the bottom of the line.
   - Click the **Superscript** button to shift the characters to the top of the line.

To apply artistic effects to selected text

1. On the **Home** tab, in the **Font** group, click the **Text Effects and Typography** button, and then do either of the following:
   - In the gallery, click the preformatted effect combination that you want to apply.
   - On the menu, click **Outline, Shadow, Reflection, Glow, Number Styles, Ligatures**, or **Stylistic Sets**. Then make selections on the submenus to apply and modify those effects.
To change the font color of selected text

1. On the Home tab, in the Font group, click the Font Color arrow to display the Font Color menu.

2. In the Theme Colors or Standard Colors palette, select a color swatch to apply that color to the selected text.

TIP To apply the Font Color button’s current color, you can simply click the button (not its arrow). If you want to apply a color that is not shown in the Theme Colors or Standard Colors palette, click More Colors. In the Colors dialog box, click the color you want in the honeycomb on the Standard page, or click the color gradient or enter values for a color on the Custom page.

To change the case of selected text

1. Do either of the following:

   • On the Home tab, in the Font group, click the Change Case button, and then click Sentence case, lowercase, UPPERCASE, Capitalize Each Word, or tOGGLE cASE.

   • Press Shift+F3 repeatedly to cycle through the standard case options (Sentence case, UPPERCASE, lowercase, and Capitalize Each Word).

IMPORTANT The case options vary based on the selected text. If the selection ends in a period, the Capitalize Each Word option is unavailable. If the selection does not end in a period, the Sentence Case option is unavailable.

To highlight text

1. Select the text you want to change, and then do either of the following in the Mini Toolbar or in the Font group on the Home tab:

   • Click the Text Highlight Color button to apply the default highlight color.

   • Click the Text Highlight Color arrow, and then click a color swatch to apply the selected highlight color and change the default highlight color.

   Or
1. Without first selecting text, do either of the following:
   - Click the Text Highlight Color button to select the default highlight color.
   - Click the Text Highlight Color arrow, and then click a color swatch to select that highlight color.
2. When the pointer changes to a highlighter, drag it across one or more sections of text to apply the highlight.
3. Click the Text Highlight Color button or press the Esc key to deactivate the highlighter.

To copy formatting to other text
1. Click anywhere in the text that has the formatting you want to copy.
2. On the Home tab, in the Clipboard group, do either of the following:
   - If you want to apply the formatting to only one target, click the Format Painter button once.
   - If you want to apply the formatting to multiple targets, double-click the Format Painter button.
3. When the pointer changes to a paintbrush, click or drag across the text you want to apply the copied formatting to.
4. If you activated the Format Painter for multiple targets, repeat step 3 until you finish applying the formatting. Then click the Format Painter button once, or press the Esc key, to deactivate the tool.

To repeat the previous formatting command
1. Select the text to which you want to apply the repeated formatting.
2. Do either of the following to repeat the previous formatting command:
   - On the Quick Access Toolbar, click the Repeat button.
   - Press Ctrl+Y.
To open the Font dialog box

1. Do either of the following:
   - On the Home tab, in the Font group, click the Font dialog box launcher.
   - Press Ctrl+Shift+F.

To remove character formatting

1. Select the text you want to clear the formatting from.

2. Do any of the following:
   - Press Ctrl+Spacebar to remove only manually applied formatting (and not styles).
   - On the Home tab, in the Font group, click the Clear All Formatting button to remove all styles and formatting other than highlighting from selected text.

   IMPORTANT If you select an entire paragraph, clicking Clear All Formatting will reset the paragraph to the default paragraph style.

   - On the Home tab, in the Font group, click the Text Highlight Color arrow and then, on the menu, click No Color to remove highlighting.

To change the character spacing

1. Select the text you want to change.

2. Open the Font dialog box, and then click the Advanced tab to display character spacing and typographic features.

3. In the Spacing list, click Expanded or Condensed.

4. In the adjacent By box, set the number of points you want to expand or condense the character spacing.

5. In the Font dialog box, click OK.
Character formatting and case considerations

The way you use character formatting in a document can influence its visual impact on your readers. Used judiciously, character formatting can make a plain document look attractive and professional, but excessive use can make it look amateurish and detract from the message. For example, using too many fonts in the same document is the mark of inexperience, so don’t use more than two or three.

Bear in mind that lowercase letters tend to recede, so using all uppercase (capital) letters can be useful for titles and headings or for certain kinds of emphasis. However, large blocks of uppercase letters are tiring to the eye.

**TIP** Where do the terms *uppercase* and *lowercase* come from? Until the advent of computers, individual characters made of lead were assembled to form the words that would appear on a printed page. The characters were stored alphabetically in cases, with the capital letters in the upper case and the small letters in the lower case.

Create and modify lists

Lists are paragraphs that start with a character (usually a number or bullet) and are formatted with a hanging indent so that the characters stand out on the left end of each list item. Fortunately, Word takes care of the formatting of lists for you. You simply indicate the type of list you want to create. When the order of items is not important—for example, for a list of people or supplies—a bulleted list is the best choice. And when the order is important—for example, for the steps in a procedure—you will probably want to create a numbered list.

You can format an existing set of paragraphs as a list or create the list as you enter information into the document. After you create a list, you can modify, format, and customize the list as follows:

- You can move items around in a list, insert new items, or delete unwanted items. If the list is numbered, Word automatically updates the numbers.
- You can modify the indentation of the list. You can change both the overall indentation of the list and the relationship of the first line to the other lines.
For a bulleted list, you can sort list items into ascending or descending order, change the bullet symbol, or define a custom bullet (even a picture bullet).

For a numbered list, you can change the number style or define a custom style, and you can specify the starting number for a list.

To format a new bulleted or numbered list as you enter content

1. With the cursor at the position in the document where you want to start the list, do either of the following:
   - To start a new bulleted list, enter * (an asterisk) at the beginning of a paragraph, and then press the Spacebar or the Tab key before entering the list item text.
   - To start a new numbered list, enter 1. (the number 1 followed by a period) at the beginning of a paragraph, and then press the Spacebar or the Tab key before entering the list item text.

When you start a list in this fashion, Word automatically formats it as a bulleted or numbered list. When you press Enter to start a new item, Word continues the formatting to the new paragraph. Typing items and pressing Enter adds subsequent bulleted or numbered items. To end the list, press Enter twice; or click the Bullets arrow or Numbering arrow in the Paragraph group on the Home tab, and then in the gallery, click None.

TIP If you want to start a paragraph with an asterisk or number but don’t want to format the paragraph as a bulleted or numbered list, click the AutoCorrect Options button that appears after Word changes the formatting, and then in the list, click the appropriate Undo option. You can also click the Undo button on the Quick Access Toolbar or press Ctrl+Z.

To convert paragraphs to bulleted or numbered list items

1. Select the paragraphs that you want to convert to list items.
2. On the Home tab, in the Paragraph group, do either of the following:
   - Click the Bullets button to convert the selection to a bulleted list.
   - Click the Numbering button to convert the selection to a numbered list.
To create a list that has multiple levels

1. Start creating a bulleted or numbered list.
2. When you want the next list item to be at a different level, do either of the following:
   
   - To create the next item one level lower (indented more), press the Tab key at the beginning of that paragraph, before you enter the lower-level list item text.
   - To create the next item one level higher (indented less), press Shift+Tab at the beginning of the paragraph, before you enter the higher-level list item text.

   In the case of a bulleted list, Word changes the bullet character for each item level. In the case of a numbered list, Word changes the type of numbering used, based on a predefined numbering scheme.

   **TIP** For a multilevel list, you can change the numbering pattern or bullets by clicking the Multilevel List button in the Paragraph group on the Home tab and then clicking the pattern you want, or you can define a custom pattern by clicking Define New Multilevel List.

To modify the indentation of a list

1. Select the list items whose indentation you want to change, and do any of the following:
   
   - On the Home tab, in the Paragraph group, click the Increase Indent button to move the list items to the right.
   - In the Paragraph group, click the Decrease Indent button to move the list items to the left.
   - Display the horizontal ruler, and drag the indent markers to the left or right.

   **TIP** You can adjust the space between the bullets and their text by dragging only the Hanging Indent marker.

   **SEE ALSO** For information about paragraph indentation, see “Apply paragraph formatting” earlier in this chapter.
To sort bulleted list items into ascending or descending order
1. Select the bulleted list items whose sort order you want to change.
2. On the Home tab, in the Paragraph group, click the Sort button to open the Sort Text dialog box.
3. In the Sort by area, click Ascending or Descending. Then click OK.

To change the bullet symbol
1. Select the bulleted list whose bullet symbol you want to change.
2. On the Home tab, in the Paragraph group, click the Bullets arrow.
3. In the Bullets gallery, click the new symbol you want to use to replace the bullet character that begins each item in the selected list.

To define a custom bullet
1. In the Bullets gallery, click Define New Bullet.
2. In the Define New Bullet dialog box, click the Symbol, Picture, or Font button, and make a selection from the wide range of options.
3. Click OK to apply the new bullet style to the list.

To change the number style
1. Select the numbered list whose number style you want to change.
2. On the Home tab, in the Paragraph group, click the Numbering arrow to display the Numbering gallery.
3. Make a new selection to change the style of the number that begins each item in the selected list.
To define a custom number style

1. In the Numbering gallery, click Define New Number Format.

2. In the Define New Number Format dialog box, do any of the following:
   - Change the selections in the Number Style, Number Format, or Alignment boxes.
   - Click the Font button, and make a selection from the wide range of options.

3. Click OK to apply the new numbering style to the list.

To start a list or part of a list at a predefined number

1. Place the cursor within an existing list, in the list paragraph whose number you want to set.

2. Display the Numbering gallery, and then click Set Numbering Value to open the Set Numbering Value dialog box.

3. Do either of the following to permit custom numbering:
   - Click Start new list.
   - Click Continue from previous list, and then select the Advance value (skip numbers) check box.

4. In the Set value to box, enter the number you want to assign to the list item. Then click OK.
Format text as you type

The Word list capabilities are only one example of the app’s ability to intuit how you want to format an element based on what you type. You can learn more about these and other AutoFormatting options by exploring the AutoCorrect dialog box, which you can open from the Proofing page of the Word Options dialog box.

The AutoFormat As You Type page shows the options Word implements by default, including bulleted and numbered lists.

You can select and clear options to control automatic formatting behavior

One interesting option in this dialog box is Border Lines. When this check box is selected, typing three consecutive hyphens (-) or three consecutive underscores (_) and pressing Enter draws a single line across the page. Typing three consecutive equal signs (=) draws a double line, and typing three consecutive tildes (~) draws a zigzag line.
Apply built-in styles to text

You don’t have to know much about character and paragraph formatting to be able to format your documents in ways that will make them easier to read and more professional looking. With a couple of mouse clicks, you can easily change the look of words, phrases, and paragraphs by using styles. More importantly, you can build a document outline that is reflected in the Navigation pane and can be used to create a table of contents.

SEE ALSO For information about tables of contents, see “Create and modify tables of contents” in Chapter 13, “Reference content and content sources.”

Apply styles

Styles can include character formatting (such as font, size, and color), paragraph formatting (such as line spacing and outline level), or a combination of both. Styles are stored in the template that is attached to a document. By default, blank new documents are based on the Normal template. The Normal template includes a standard selection of styles that fit the basic needs of most documents. These styles include nine heading levels, various text styles including those for multiple levels of bulleted and numbered lists, index and table of contents entry styles, and many specialized styles such as those for hyperlinks, quotations, placeholders, captions, and other elements.

By default, most common predefined styles are available in the Styles gallery on the Home tab. You can add styles to the gallery or remove those that you don’t often use.

The Styles gallery in a new, blank document based on the Normal template
Initially, the Normal template displays only a limited number of styles in the Styles gallery, but in fact it contains styles for just about every element you can think of. Although they are available, these styles aren’t actually used unless you apply the style or add the corresponding element to the document. For example, nine paragraph styles are available for an index, but none of them is used until you create and insert an index in the document.

You can display style names or previews in the Styles pane, and configure it to show all styles, styles that are in the template, styles that are used in the document, or recommended styles.

The Styles pane can display style names or previews of the styles

If you don’t have room to display the entire Styles pane, you can apply styles from the floating Apply Styles pane. The Style Name list in the Apply Styles pane displays the same set of styles that are in the Styles pane; that is, if the pane shows only the styles in use, so does the Style Name list.
Apply built-in styles to text

There are three primary types of styles, identified in the Styles pane by icons:

- **Paragraph** These styles can include any formatting that can be applied to a paragraph. They can also include character formatting. Paragraph styles are applied to the entire paragraph containing the cursor. In the Styles pane, a paragraph style is identified by a paragraph mark to the right of its name.

- **Character** These styles can include any formatting that can be applied to selected text. They are applied on top of the character formatting defined for the paragraph style. Like direct character formatting, character styles are applied to selected text; to apply them to an entire paragraph, you must select the paragraph. In the Styles pane, a character style is identified by a lowercase letter a.

- **Linked** These styles are hybrids. If you click in a paragraph and then apply the style, the style is applied to the entire paragraph like a paragraph style. If you select text and then apply the style, the style is applied to the selection only. In the Styles pane, a linked style is identified by both a paragraph mark and a lowercase letter a.

**TIP** Two additional style types, Table and List, are reserved for styles for those document elements.

Styles stored in a template are usually based on the Normal style and use only the default body and heading fonts associated with the document’s theme, so they all go together well. For this reason, formatting document content by using styles produces a harmonious effect. After you apply named styles, you can easily change the look of an entire document by switching to a different style set that contains styles with the same names but different formatting.
Style sets are available from the Document Formatting gallery on the Design tab.

Pointing to a style set in the gallery displays a live preview of the effects of applying that style set to the entire document.

To open the Styles pane

1. Do either of the following:
   - On the Home tab, click the Styles dialog box launcher.
   - Press Alt+Ctrl+Shift+S.

   TIP  If the Styles pane floats above the page, you can drag it by its title bar to the right or left edge of the app window to dock it. If it’s docked, you can drag it away from the edge of the window to float it.
To change which styles are displayed in the Styles pane

1. At the bottom of the Styles pane, click the Options link to open the Style Pane Options dialog box.

2. In the Style Pane Options dialog box, do any of the following, and then click OK:
   - In the Select styles to show list, click one of the following:
     - Recommended Displays styles that are tagged in the template as recommended for use
     - In use Displays styles that are applied to content in the current document
     - In current document Displays styles that are in the template that is attached to the current document
     - All styles Displays built-in styles, styles that are in the attached template, and styles that were brought into the document from other templates

To make it easier to find specific styles, sort the list alphabetically

Apply built-in styles to text
• In the Select how list is sorted list, click Alphabetical, As Recommended, Font, Based on, or By type
• In the Select formatting to show as styles area, select each check box for which you want to display variations from named styles
• In the Select how built-in style names are shown area, select the check box for each option you want to turn on

To display or hide style previews in the Styles pane
1. Open the Styles pane, and then select or clear the Show Preview check box.

TIP Selecting the Show Preview check box displays style names in the formatting assigned to the style. Pointing to a style displays its formatting specifications.

To open the Apply Styles pane
1. On the Home tab, in the Styles group, click the More button (in the lower-right corner of the Styles gallery pane) to display the Styles gallery and menu.
2. On the Styles menu, click Apply Styles.

To apply a style from the Apply Styles pane
1. Do either of the following:
   • To apply the style that is shown in the Style Name list, click the Reapply button.
   • To apply a different style, click the Style Name list and then click the style you want to apply.

To apply a built-in style
1. Select the text or paragraph to which you want to apply the style.

TIP If the style you want to apply is a paragraph style, you can position the cursor anywhere in the paragraph. If the style you want to apply is a character style, you must select the text.

2. In the Styles gallery on the Home tab, or in the Styles pane, click the style you want to apply.
To change the style set

1. On the Design tab, in the Document Formatting group, click the More button if necessary to display all the style sets.
2. Point to any style set to preview its effect on the document.
3. Click the style set you want to apply.

Manage outline levels

Styles can be used for multiple purposes: to affect the appearance of the content, to build a document outline, and to tag content so that you can easily locate it.

Heading styles define a document’s outline

Each paragraph style has an associated Outline Level setting. Outline levels include Body Text and Level 1 through Level 9. (Most documents make use only of body text and the first three or four outline levels.)
Most documents use only two to four of the outline levels

Paragraphs that have the Level 1 through Level 9 outline levels become part of the hierarchical structure of the document. They appear as headings in the Navigation pane and act as handles for the content that appears below them in the hierarchy. You can collapse and expand the content below each heading, and move entire sections of content by dragging the headings in the Navigation pane.

To display the document outline in the Navigation pane

1. In the Navigation pane, click Headings to display the document structure.

   TIP Only headings that are styled with the document heading styles appear in the Navigation pane.

To expand or collapse the outline in the Navigation pane

1. In the Navigation pane, do either of the following:
   - If there is a white triangle to the left of a heading, click it to expand that heading to show its subheadings.
   - If there is a downward-angled black triangle to the left of a heading, click it to collapse the subheadings under that heading.

   TIP If there is no triangle next to a heading, that heading does not have subheadings.
To expand or collapse sections in the document

1. In a document that contains styles, point to a heading to display a triangle to its left. Then do either of the following:

   - If the triangle is a downward-angled gray triangle, click the triangle to hide the content that follows the heading.
   - If the triangle is a white triangle, click the triangle to display the hidden document content.

Change the document theme

Every document you create is based on a template, and the look of the template is controlled by a theme. The theme is a combination of coordinated colors, fonts, and effects that visually convey a certain tone. To change the look of a document, you can apply a different theme from the Themes gallery.

*The default installation of Word 2016 offers 30 themes to choose from*
Each theme has a built-in font set and color set, and an associated effect style.

- Each font set includes two fonts—the first is used for headings and the second for body text. In some font sets, the heading and body fonts are the same.

- Each color in a color set has a specific role in the formatting of styled elements. For example, the first color in each set is applied to the Title and Intense Reference styles, and different shades of the third color are applied to the Subtitle, Heading 1, and Heading 2 styles.

If you like the background elements of a theme but not the colors or fonts, you can mix and match theme elements.

SEE ALSO For information about creating custom themes, see “Create and manage custom themes” in Chapter 15, “Create custom document elements.”

TIP In addition to colors and fonts, you can control the more subtle design elements, such as paragraph spacing and visual effects that are associated with a theme.
By default, Word applies the Office theme to all new, blank documents. In Word 2016, the Office theme uses a primarily blue palette, the Calibri font for body text, and Calibri Light for headings. If you plan to frequently use a theme other than the Office theme, you can make that the default theme.

To apply a built-in theme to a document

1. On the Design tab, in the Document Formatting group, click the Themes button, and then click the theme you want to apply.

   **TIP** If you have manually applied formatting to document content, the theme does not override the manual formatting. To ensure that all document elements are controlled by the theme, click Reset To The Default Style Set on the Document Formatting menu.

To change theme elements in a document

1. On the Design tab, in the Document Formatting group, do any of the following:
   - Click the Colors button (the ScreenTip says Theme Colors), and then click the color set you want to apply.
   - Click the Fonts button (the ScreenTip says Theme Fonts), and then click the font set you want to apply.
   - Click the Effects button (the ScreenTip says Theme Effects), and then click the effect style you want to apply.

To change the default theme

1. In the document, apply the theme you want to use as the default theme.

Skills review

In this chapter, you learned how to:

- Apply paragraph formatting
- Structure content manually
- Apply character formatting
- Create and modify lists
- Apply built-in styles to text
- Change the document theme
Practice tasks

The practice files for these tasks are located in the Word2016SBS\Ch04 folder. You can save the results of the tasks in the same folder.

Apply paragraph formatting

Open the FormatParagraphs document, display formatting marks, and then complete the following tasks:

1. Display the rulers and adjust the zoom level to display most or all of the paragraphs in the document.
2. Select the first two paragraphs (Welcome! and the next paragraph) and center them between the margins.
3. Select the second paragraph, and apply a first line indent.
4. Select the third paragraph and then apply the following formatting:
   - Format the paragraph so that the edges of the paragraph are flush against both the left and right margins.
   - Indent the paragraph by a half inch on the left and on the right.
5. Indent the Be careful paragraph by 0.25 inches.
6. Simultaneously select the Pillows, Blankets, Towels, Limousine winery tour, and In-home massage paragraphs. Change the paragraph spacing to remove the space after the paragraphs.
7. At the top of the document, apply an outside border to the Please take a few minutes paragraph.
8. Save and close the document.
Structure content manually
Open the StructureContent document, display formatting marks, and then complete the following tasks:

1. Display the rulers and adjust the zoom level to display most or all of the paragraphs in the document.

2. In the second paragraph (We would like...), insert a line break immediately after the comma and space that follow the word cottage.

3. Select the Pillows, Blankets, Towels, and Dish towels paragraphs. Insert a left tab stop at the 2 inch mark and clear any tab stops prior to that location.

4. In the Pillows paragraph, replace the space before the word There with a tab marker. Repeat the process to insert tabs in each of the next three paragraphs. The part of each paragraph that follows the colon is now aligned at the 2-inch mark, producing more space than you need.

5. Select the four paragraphs containing tabs, and then do the following:
   - Change the left tab stop from the 2 inch mark to the 1.25 inch mark.
   - On the ruler, drag the Hanging Indent marker to the tab stop at the 1.25 inch mark (the Left Indent marker moves with it) to cause the second line of the paragraphs to start in the same location as the first line. Then press the Home key to release the selection so you can review the results.

6. At the bottom of the document, select the three paragraphs containing dollar amounts, and then do the following:
   - Set a Decimal Tab stop at the 3 inch mark.
   - Replace the space to the left of each dollar sign with a tab to align the prices on the decimal points.

7. Hide the formatting marks to better display the results of your work.

8. Save and close the document.
Apply character formatting

Open the FormatCharacters document, and then complete the following tasks:

1. In the second bullet point, underline the word *natural*. Then repeat the formatting command to underline the word *all*, in the fourth bullet point.

2. In the fourth bullet point, click anywhere in the word *across*. Apply a thick underline to the word in a way that also assigns the **Thick underline** format to the **Underline** button. Then apply the thick underline to the word *departments*.

3. Select the *Employee Orientation* heading, and apply bold formatting to the heading.

4. Copy the formatting, and then paint it onto the *Guidelines* subtitle, to make the subtitle a heading.

5. Select the *Guidelines* heading, and apply the following formatting:
   - Change the font to **Impact**.
   - Set the font size to 20 points.
   - Apply the **Small caps** font effect.
   - Expand the character spacing by 10 points.

6. Change the font color of the words *Employee Orientation* to **Green, Accent 6**.

7. Select the *Community Service Committee* heading, and apply the following formatting:
   - Outline the letters in the same color you applied to *Employee Orientation*.
   - Apply an **Offset Diagonal Bottom Left** outer shadow. Change the shadow color to **Green, Accent 6, Darker 50%**.
   - Fill the letters with the **Green, Accent 6** color, and then change the text outline to **Green, Accent 6, Darker 25%**.

You have now applied three text effects to the selected text by using three shades of the same green.
8. In the first bullet point, select the phrase *the concept of service* and apply a **Bright Green** highlight.

9. In the fifth bullet point, simultaneously select the words *brainstorming*, *planning*, and *leadership* and change the case of all the letters to uppercase.

10. Save and close the document.

**Create and modify lists**

Open the CreateLists document, display formatting marks and rulers, and then complete the following tasks:

1. Select the first four paragraphs below *The rules fall into four categories*. Format the selected paragraphs as a bulleted list. Then change the bullet character for the four list items to the one that is composed of four diamonds.

2. Select the two paragraphs below the *Definitions* heading. Format the selected paragraphs as a numbered list.

3. Select the first four paragraphs below the *General Rules* heading. Format the paragraphs as a second numbered list. Ensure that the new list starts with the number 1.

4. Format the next three paragraphs as a bulleted list. (Notice that Word uses the bullet symbol you specified earlier.) Indent the bulleted list so that it is a subset of the preceding numbered list item.

5. Format the remaining three paragraphs as a numbered list. Ensure that the list numbering continues from the previous numbered list.

6. Locate the *No large dogs* numbered list item. Create a new second-level numbered list item (a) from the text that begins with the word *Seeing*. Then create a second item (b) and enter *The Board reserves the right to make exceptions to this rule*.

7. Create a third list item (c). Promote the new list item to a first-level item, and enter *All pets must reside within their Owners’ Apartments*. Notice that the *General Rules* list is now organized hierarchically.

8. Sort the three bulleted list items in ascending alphabetical order.

9. Save and close the document.
Apply built-in styles to text

Open the ApplyStyles document in Print Layout view, and then complete the following tasks:

1. Scroll through the document to gain an overview of its contents. Notice that the document begins with a centered title and subtitle, and there are several headings throughout.

2. Open the Navigation pane. Notice that the Headings page of the Navigation pane does not reflect the headings in the document, because the headings are formatted with local formatting instead of styles.

3. Open the Styles pane and dock it to the right edge of the app window.

4. Set the zoom level of the page to fit the page content between the Navigation pane and the Styles pane.

5. Apply the Title style to the document title, All About Bamboo.

6. Apply the Subtitle style to the Information Sheet paragraph.

7. Apply the Heading 1 style to the first bold heading, Moving to a New Home. Notice that the heading appears in the Navigation pane.

8. Hide the content that follows the heading. Then redisplay it.

9. Apply the Heading 1 style to Staying Healthy. Then repeat the formatting to apply the same style to Keeping Bugs at Bay.

10. Scroll the page so that both underlined headings are visible. Select the Mites and Mealy Bugs headings. Then simultaneously apply the Heading 2 style to both selections.

11. Configure the Styles pane to display all styles, in alphabetical order.

12. In the Navigation pane, just above the headings, click the Jump to the beginning button to return to the document title.

13. In the first paragraph of the document, select the company name Wide World Importers, and apply the Intense Reference style.

14. In the second paragraph, near the end of the first sentence, select the word clumping, and apply the Emphasis style. Then, at the end of the sentence, apply the same style to the word running.
15. Close the Navigation pane and the Styles pane. Then configure the view setting to display both pages of the document in the window.

16. Apply the Basic (Elegant) style set to the document. Change the view to Page Width and notice the changes to the styled content.

17. Save and close the document.

**Change the document theme**

Open the ChangeTheme document, and then complete the following tasks:

1. Apply the Facet theme to the document.
2. Change the theme colors to the Orange color scheme.
3. Change the theme fonts to the Georgia theme set.
4. Set the Facet theme as the default theme for the document.
5. Save and close the document.
Insert and modify diagrams

Diagrams are graphics that convey information. Business documents often include diagrams to clarify concepts, describe processes, and show hierarchical relationships. Word 2016 includes a powerful diagramming feature called SmartArt that you can use to create diagrams directly in your documents. By using these dynamic diagram templates, you can produce eye-catching and interesting visual representations of information.

SmartArt graphics can illustrate many different types of concepts. Although they consist of collections of shapes, SmartArt graphics are merely visual containers for information stored as bulleted lists. You can also incorporate pictures and other images to create truly spectacular, yet divinely professional, diagrams.

This chapter guides you through procedures related to creating diagrams, modifying diagrams, and creating picture diagrams.

In this chapter

- Create diagrams
- Modify diagrams
- Create picture diagrams

Practice files

For this chapter, use the practice files from the Word2016SBS\Ch07 folder. For practice file download instructions, see the introduction.
Create diagrams

Sometimes the concepts you want to convey to an audience are best presented in diagrams. You can easily create a dynamic, appealing diagram by using SmartArt graphics, which visually express information in predefined sets of shapes. You can use SmartArt graphics to easily create sophisticated diagrams that illustrate the following concepts:

- **List**  These diagrams visually represent lists of related or independent information—for example, a list of items needed to complete a task, including pictures of the items.

- **Process**  These diagrams visually describe the ordered set of steps that are required to complete a task—for example, the steps for getting a project approved.

- **Cycle**  These diagrams represent a circular sequence of steps, tasks, or events, or the relationship of a set of steps, tasks, or events to a central, core element—for example, the looping process for continually improving a product based on customer feedback.

- **Hierarchy**  These diagrams illustrate the structure of an organization or entity—for example, the top-level management structure of a company.

- **Relationship**  These diagrams show convergent, divergent, overlapping, merging, or containment elements—for example, how using similar methods to organize your email, calendar, and contacts can improve your productivity.

- **Matrix**  These diagrams show the relationship of components to a whole—for example, the product teams in a department.

- **Pyramid**  These diagrams illustrate proportional or interconnected relationships—for example, the amount of time that should ideally be spent on different phases of a project.

The layout of content in a SmartArt diagram is controlled by a behind-the-scenes bulleted list. When creating a SmartArt diagram in Word, you choose a layout first, and then populate the associated list in a window called the Text pane.
The dialog box from which you choose the SmartArt graphic layout displays monochromatic representations of the layouts—this is only so that the colors don’t confuse the process of choosing a layout. The actual colors of the SmartArt diagram are based on the color scheme of the document, and you can choose from several different color patterns. The categories in the left pane of the dialog box are not mutually exclusive, so some diagrams appear in more than one category.

Word 2016 includes about 200 SmartArt templates

TIP After you create a SmartArt diagram, you can change its content, layout, and colors. For information about changing the diagram colors, see “Modify diagrams” later in this chapter.

Clicking a layout in the Choose A SmartArt Graphic dialog box displays a color mockup of the diagram and information about any restrictions on the number of entries or list levels that the layout supports.

TIP You can find the layout information in the Text pane after you create the diagram. Sometimes the Text pane displays the layout name and description at the bottom; other times only the layout name is displayed. When this is the case, simply point to the layout name to display the layout description in a ScreenTip.
The detailed description of the selected SmartArt diagram can help you choose the right diagram for your needs.

After you choose a layout, Word inserts the basic diagram into the document and displays the Text pane containing placeholder information. You can enter more or less information than is required by the original diagram.

When you enter text in either the Text pane or the selected shape, that text also appears in the other location.

You can insert and modify text either directly in the diagram shapes or in the associated Text pane. (You can hide the Text pane when you’re not using it, and redisplay...
it if you need it.) The Text pane might display only a single-level bulleted list, or a multiple-level list if the diagram layout supports multiple levels. You can expand the diagram either by adding more list items or by adding more shapes. Some diagram layouts support a specific number of entries and others can be expanded significantly.

The number of items displayed by a diagram can be expanded or reduced to convey the precise meaning you want to convey.

In layouts that support additional entries, the diagram shapes change to accommodate the content. Within a diagram, the shape size and font size always stay consistent. If a text entry is too long to fit a shape, the text size changes in all the shapes.

Word keeps your SmartArt diagrams looking professional by automatically adjusting text size as needed.
Chapter 7: Insert and modify diagrams

**TIP** You can move, resize, and wrap text around SmartArt graphics just as you can other types of images. For information about configuring image layout options, see “Arrange objects on a page” in Chapter 10, “Organize and arrange content.”

To create a diagram in a document

1. Position the cursor in the document where you want to insert the diagram.
2. Do either of the following to open the Choose a SmartArt Graphic dialog box:
   - On the **Insert** tab, in the **Illustrations** group, click the **SmartArt** button.
   - Press **Alt+N+M**.
3. In the left pane, select a type of diagram. Then in the center pane, select a diagram layout thumbnail to view an example, along with a description of what the diagram best conveys, in the right pane.
4. Click **OK** to insert the selected diagram at the cursor.

To enter text into diagram shapes

1. If the **Text** pane isn’t open, select the diagram, and then do either of the following:
   - Click the chevron on the left side of the diagram frame to open the Text pane.
   - On the **Design** tool tab for SmartArt (not the regular document Design tab), in the **Create Graphic** group, click the **Text Pane** button.
2. In the **Text** pane, select the first placeholder, and enter the text you want to display in the corresponding shape. Notice that the content you enter in the bulleted list appears immediately in the corresponding diagram shape. Then do any of the following:
   - Press the **Down Arrow** key to move to the next placeholder.
   - At the beginning of a list item, press **Tab** to increase the indent level of the current list item.
• At the end of a list item, press **Enter** to add an item to the bulleted list and add a shape to the diagram.

• Press **Delete** to remove an unused list item.

3. Repeat step 2 until you’ve entered all the diagram content.

You can use the Text pane both to easily enter text and to quickly review your text for errors.

**TIP** For a clean look, don’t use ending punctuation for the text that appears in the SmartArt graphic shapes.

4. In the Text pane, click the **Close** button (the X).

**Modify diagrams**

After you create a diagram and add the text you want to display in it, you can move and size it to fit the space, and format it to achieve professional-looking results.

If the diagram layout you originally selected doesn’t precisely meet your needs, you can easily change to a different layout. Some layouts preserve information that doesn’t fit, and others don’t; a message at the bottom of the Text pane provides information so you can make an informed decision.
Some diagrams can support only a limited number of text entries

When a SmartArt graphic is active, the SmartArt Tools tab group on the ribbon includes two tabs: Design and Format.

The Design tool tab for SmartArt graphics

You can make many changes directly on the diagram canvas, but if you prefer, you can also make changes from the ribbon. From the Design tool tab, you can make changes such as the following:

■ Add, move, and change the hierarchy of shapes.
■ Change to a different layout.
■ Change the color scheme of the diagram.
■ Change the effects applied to the diagram shapes.
■ Reset the diagram to its default settings.

The Format tool tab for SmartArt graphics
From the Format tool tab, you can make changes such as the following:

■ Change the shape of an individual diagram shape—for example, change a square to a star to make it stand out.
■ Change the size of an individual diagram shape.
■ Apply a built-in shape style.
■ Apply colors and effects to specific shapes.
■ Apply WordArt text effects to the text in a shape.
■ Position and resize the SmartArt graphic.

To add a shape to a SmartArt graphic

1. Select the diagram, and do either of the following:
   • Open the Text pane. At the end of a list item, press Enter to add an item to the bulleted list and a shape to the diagram.
   • On the Design tool tab, in the Create Graphic group, click the Add Shape button.

To remove a shape from a SmartArt graphic

1. Do either of the following:
   • In the diagram, select the shape.
   • In the Text pane, select the list item.
2. Press the Delete key.

To move a shape in a SmartArt graphic

1. Do either of the following:
   • In the diagram, drag the shape to a different position.
   • In the Text pane, drag the list item to a different position.
To change the hierarchy of shapes in a SmartArt graphic

IMPORTANT You can promote and demote shapes only in SmartArt layouts that support multiple levels of content.

1. In the diagram, select a shape.
2. On the Design tool tab, in the Create Graphic group, do either of the following:
   - Click the Promote button to increase the level of the selected shape or list item.
   - Click the Demote button to decrease the level of the selected shape or list item.

Or

1. In the Text pane, click at the beginning of a list item.
2. Do either of the following:
   - Press Tab to demote the list item (and the shape).
   - Press Shift+Tab to promote the list item (and shape).

To change a SmartArt graphic to a different layout

1. Select the diagram.
2. On the Design tool tab, in the Layouts group, click the More button to expand the Layouts gallery. This view of the gallery displays only the available diagram layouts for the currently selected diagram layout category.
3. In the Layouts gallery, do either of the following:
   - Click a thumbnail to change the diagram to the new layout in the same category.
   - At the bottom of the gallery, click More Layouts to display the Choose A SmartArt Graphic dialog box. Locate and select the layout you want to apply, and then click OK.
To change the color scheme of a SmartArt graphic

1. On the Design tool tab, in the SmartArt Styles group, click the Change Colors button to display the SmartArt coloring options in the current color scheme.

2. Point to any color set to display a live preview of that option. Click the color set that you like to apply it to the diagram.

To change the effects applied to the shapes in a SmartArt graphic

1. Select the diagram. On the Format tool tab, in the Shape Styles group, click the Shape Effects button.

2. On the Shape Effects menu, click an effect category. Then on the Variations menu, point to any thumbnail to display a live preview of the effect.

3. Click a thumbnail to apply that effect to the diagram.

To reset a SmartArt graphic to its default formatting

1. Select the diagram, and on the Design tool tab, in the Reset group, click the Reset Graphic button.

To change the shape of an individual diagram shape

1. Right-click the diagram shape you want to change, and then click Change Shape.

2. In the Shape gallery, click any shape to change the diagram shape.
To change the size of an individual diagram shape

1. Select the shape, and then do either of the following:
   - Drag the sizing handle to the size you want.
   - On the Format tool tab, in the Size group, set the Height and Width.

To apply colors and effects to specific shapes

1. Select a shape. On the Format tool tab, in the Shape Styles group, do any of the following:
   - From the Shape Styles gallery, apply a preformatted set of styles.
   - From the Shape Fill, Shape Outline, or Shape Effects menu, apply individual style formats.

To apply WordArt text effects to the text in a shape

1. Do either of the following:
   - Select the diagram to apply WordArt text effects to all the text in a diagram.
   - Select a shape to apply WordArt text effects to only the selected shape.

2. On the Format tool tab, in the WordArt Styles group, click the More button to display the WordArt Styles gallery.

3. In the WordArt Styles gallery, point to any thumbnail to display a live preview of the effect.

4. Click a thumbnail to apply the effect to the selected shape or shapes.

**TIP** For a custom WordArt effect, you can select the text fill color, the text outline color, and the text effect individually from the corresponding menus in the WordArt Styles group.
Create picture diagrams

Most SmartArt graphics present text information in shapes, but some can display pictures instead of, or in addition to, text. Most SmartArt graphic categories include some picture options, but picture diagrams are also available in their own category to help you locate them if you specifically want to create a diagram that includes pictures.

Diagrams that include spaces for pictures have "Picture" in the layout name

You can insert pictures into a SmartArt graphic from the same sources that you can insert them into a document: your computer or a connected storage location, a SharePoint library, a Facebook photo album, a OneDrive or OneDrive for Business storage folder, or the Internet. As always, take care when reusing pictures that you find on the Internet to ensure that you don’t violate someone’s copyright.
When you insert or select a picture in a SmartArt graphic, the SmartArt Tools tab group and the Picture Tools tab group are active. You can edit pictures that you insert in diagrams the same way you edit those you insert directly into documents.

You can magnify the picture within the diagram space, remove the picture background, or apply an artistic effect.

To insert a picture diagram in a document

1. Position the cursor in the document where you want to insert a picture diagram.

2. On the Insert tab, in the Illustrations group, click the SmartArt button to open the Choose a SmartArt Graphic dialog box.

3. In the left pane, click Picture to display the picture diagram options. Then in the middle pane, click any thumbnail to display information about the diagram and the number of pictures you can use in it.
Picture diagram descriptions include information to help you decide how to best display your pictures.

4. In the Choose a SmartArt Graphic dialog box, click OK to insert the selected picture diagram template.

To replace a picture placeholder in a diagram

1. In the Text pane or in a diagram shape, click the Insert Picture icon to open the Insert Pictures window.

Word makes it easy to insert pictures in a picture diagram.
2. In the **Insert Pictures** window, which displays the locations from which you can insert pictures into the diagram, click the source you want to use, or enter a term in the search box and then click the **Search** button.

![Insert Pictures window](image)

*The Insert Pictures window provides access to local and online resources*

3. Browse to and select the picture you want to use. Then click the **Insert** button to replace the picture placeholder.

**Skills review**

In this chapter, you learned how to:

- Create diagrams
- Modify diagrams
- Create picture diagrams
Create diagrams

Open the CreateDiagrams document, and then perform the following tasks:

1. Position the cursor below the existing page title.
2. Open the Choose a SmartArt Graphic dialog box, and review the available layouts. Click any layout that interests you to display information about it in the right pane.
3. Display the Cycle category of layouts. Click the Hexagon Radial layout, and then click OK to create the diagram in the document.
4. If the Text pane for the SmartArt graphic isn't already open, open it. Notice that the Text pane displays two levels of bullets. The first-level bullet populates the center hexagon and the second-level bullets populate the six surrounding hexagons.
5. In the Text pane, select the first bullet and then enter My Health. The words appear in the center hexagon.
6. In the Text pane, select the second bullet, enter Physical, and then press the Down Arrow key to move to the third bullet. The word appears in one of the outer hexagons.
7. Repeat step 6 to enter Mental and Emotional in the next two hexagons.
8. In the diagram, click one of the empty outer hexagon shapes to select it, and then click it again to activate the text insertion point. In the hexagon, enter Financial.
9. Repeat step 8 to enter Social and Spiritual in the final two outer hexagons.
10. Save and close the document.
Modify diagrams

Open the ModifyDiagrams document, and then perform the following tasks:

1. The Balance diagram on the page displays balance scales with up to four shapes stacked on each side. Select the Balance diagram. If the Text pane doesn’t automatically open, open it.

2. In the Text pane, click at the end of the word Family, and then press Enter to create a new second-level bullet and add a corresponding shape to the diagram. Notice that with three shapes on each side, the scale moves to show that the two sides are balanced.

3. In the new shape, enter Sports.

4. In the diagram, click the Job shape to select it.

5. From the Design tool tab, add a shape to the Work side of the diagram. In the new shape, enter Household management. Notice that the scale tips to show that there are more shapes on the Work side.

6. In the diagram, select the word Life. From the Format tool tab, apply a WordArt style of your choice. Then apply a WordArt style to the word Work.

7. Select the entire diagram. On the Design tool tab, display the Change Colors gallery, and click the thumbnail of the color and pattern you want to use.

8. Display the SmartArt Styles gallery. Point to each of the thumbnails to display a live preview of the style. Then apply the style you like best.

9. Open the Text pane, and move the Troop leader and Coach shapes from the Work side of the diagram to the Life side. Notice that when there is more content than the shape supports, the unused content is dimmed and preceded by an X.

10. Select the diagram and expand the Layouts gallery. Point to each of the other layouts to find one that you can use to illustrate this same information. Click the layout you like best.

11. Experiment with any other modifications you’d like to make to the diagram.

12. Save and close the document.
Create picture diagrams

Open the CreatePictograms document, and then perform the following tasks:

1. Position the cursor below the existing page title.
2. Open the Choose a SmartArt Graphic dialog box, and click the Picture category.
3. Click any picture diagram layout that interests you to display information about it in the right pane.
4. Click the Bending Picture Blocks layout, and then click OK to insert the diagram in the document.
5. Populate the diagram by inserting the Chickens, Penguins, and Tiger pictures from the practice file folder into the picture placeholders.
6. Enter the corresponding animal names next to the pictures.
7. Add a shape to the diagram. Insert the Fish picture and corresponding name in the new shape.
8. Select the four shapes that contain animal names. From the Format tool tab for SmartArt, apply a different shape style.
9. Close the Text pane, and then click the Tiger picture. From the Format tool tab for pictures, crop the picture so that the animal fills the width of the picture shape.
10. Make any other improvements to the graphics that you want.
11. From the Design tool tab, apply a color set and effects of your choice.
12. Save and close the document.
Index

A
access
restricting with passwords 354–359
restricting with rights management 359
accessibility
inspecting documents for 391
issues 388–389
nested tables 316
Accessibility Checker 386–387, 391
accessible content 573
accounts
Microsoft 22, 24
Office 24
active charts 244
adaption procedures (ribbon) 20–21
Add Chart Element menu 252–253
add-ins
displaying 88
managing 534–536
add-in utility 573
Address Block merge field 463–465
Align Left option 105
Align Right option 105
aligning
decimal points 115
equations 293
lines of text 114
objects 309, 313–314
tabbed lists 158
tabs 117
text in tables 171
text, using tab stops 114
All Markup view 332, 573
anchoring objects 312–313
annotating documents 345–346
ANSI characters 553
antonyms 88, 92–93
app windows
backgrounds 24
color schemes 25
Apply Styles pane 136
apps 88
See also tools
dictionaries 88
displaying add-ins 88
locating for Word 88
Open page 37
areas
changing 43
chart 250
formatting chart 255
plot 250
artistic effects
pictures 197
text 121
ascending order, sorting bulleted lists 128
aspect ratio 573
attributes 573
authors
displaying for tracked changes 341
AutoCorrect 370, 573
automatic formatting 512
changing text entries 512–513
modifying settings 509
options 126, 511
AutoCorrect options 295
AutoCorrect Options 571
AutoFit to contents option 167
AutoFit to window option 167
AutoFormat As You Type 130
AutoFormatting options 130
automatic spell checking 508–509
Automatic Table 1 option 420
Automatic Table 2 option 420
AutoRecover options 514
AutoShape 573
AutoText entries 553
axes
charts 251
formatting 256
B
backgrounds 573
app windows 24
borders 271
colors 269
formatting 266–269
Backstage view

backgrounds (continued)
- patterns 270
- pictures 195–196, 268, 271
- removing 271
- tables 179
- textures 270
- watermarks 272–274

Backstage view 567
- commands 9
- displaying recent files 521

balloons 573
- comments 326
- displaying markup 335

bar charts 243, 573

Bar Tab 115

Behind Text text-wrapping option 307

bibliographies
- compiling 431–437
- creating sources 434
- updating 437

bilingual dictionaries 89

Bilingual Dictionary pane 88

blogs 573

bold, applying to text 121

bookmarks 573
- displaying in text 408
- editing 563
- going to 408
- inserting 406–411

Border Lines 130

borders
- applying to cells (tables) 178
- backgrounds 271
- columns/rows 178
- drawing lines 130
- paragraphs 113
- tables 179

brightness of pictures 197

browsing by object 45

browsing items 549

building blocks 281–285, 493–497, 573
- creating new 563
- deleting 497
- displaying 285
- displaying shortcut menus 552
- inserting 287–288
- inserting in documents 496–497
- saving content as 495–496

Building Blocks global template 493

Building Blocks Organizer 283, 496

built-in styles, applying to text 131–137

built-in themes, applying to documents 141

bulleted lists 125

See also
- lists 126
- converting from paragraphs 126
- formatting on the fly 126
- sorting into ascending/descending order 128
- starting new 126

bullets
- adjusting spacing 127
- changing symbols 128
- defining custom 128

C

calculations, adding to tables 170

captions 573

category axis 573

cell address 573

cells 573
- inserting paragraphs 557
- inserting tab characters 557
- moving around in 570

cells (spreadsheets) 164–167

cells (tables)
- borders 178
- inserting 165, 174
- merging 166, 174
- selecting 171
- shading 178
- splitting 166

centering paragraphs 105

Center Tab 115

changes (tracking) 329–332
- accepting 341–342
- colors 329, 331
- default formatting 329
- displaying authors of 341
- displaying revision types 337
- displaying time of 341
- Microsoft accounts 336
- moving sequentially among 338
- preventing reviewers from turning off change tracking 331
- rejecting all 342
- removing selected changes 342
- reviewing 340–343
- tracking changes without displaying 330
- turning change tracking on/off 330
- unlocking change tracking 332
change tracking
   turning off  550
character formatting  118–124, 574
   applying  119
   best practices  125
   removing  124
   types  118
character spacing  118, 124–125, 574
character styles  133, 574
character formatting
   applying  558
   hiding  549
characters
   deleting  80, 551
   subscript/superscript  121
   symbols  210–211
chart area  574
Chart Elements pane  253
charts
   active  244
   axes  251
   bar  243
   colors  258
   column  242
   creating  242–246
   data labels  251
   data tables  251
   error bars  251
   filtering  249
   formatting  255–259
   gridlines  251
   inserting from workbooks into documents  246
   legends  251
   line  242
   lines  251
   modifying  246–255
   modifying data  246–250
   modifying elements  250–254
   pie  243, 255
   plotting  246
   Quick Layouts  252–254
   selecting  247
   selecting components  258
   sizing  254
   styles  257–258
   switching across data categories  247
   titles  251, 256
   trendlines  251
   up/down bars  251
   WordArt styles  258
Check Spelling As You Type option  343
citations
   inserting  436
   marking  551
   placeholders  436–437
   style rules  434
 citing sources  431–437
Click and Type feature  574
clip art  574
Clipboard  74, 574
   controlling behavior of  80
   copying graphics  552
   copying text  552
   copying text to  76
   cutting content to  551
   cutting text to  76
   displaying  77
   managing cut and copied items  77
   opening  552
   pasting text from  76
cloud storage
   adding locations during saves  57
   connecting to  25
collaboration  574
collapsing
   document sections  138
   document sections in Outline view  304
   outlines  138
color schemes
   changing in diagrams  231
   choosing  504
color sets  140
Colorful theme  23
colors
   app windows  25
   background  269
   charts  258
   comments  327–328
   fonts  122
   pictures  196
   tracking changes  329, 331
column breaks  574
displaying  151
   inserting  156, 552
column charts

column charts 242, 574
columns 574
  breaking manually 154
  formatting documents 155
  indentation of paragraphs 156
  inserting breaks 552
  presenting information in 150–154
  section breaks 382
  selecting 555
  sizing 155
  tabbed lists 157–159
  text 154–155
Columns gallery 150
columns (tables)
  borders 178
  emphasizing 177
  formatting 177, 179
  inserting 173
  selecting 172
  shading 178
  sizing 165, 172
COM add-ins 534
combining documents 344–346
commands
  adding to custom groups 533–534
  adding to Quick Access Toolbar 524, 526, 528
  Backstage view 9
  displaying all 524
  formatting 204
  groups 11
  repeating formatting 123
  Set As Default Shape 209
comments 574
  balloons 326
  changing user identification 506
  colors 327–328
  deleting 340
  displaying 336
  editing 340
  hidden 326
  inserting 550
  inserting into documents 326–328
  marking as done 340
  moving between 339
  responding to 338–340
  reviewing 338–340
  viewing 333–334
comparing documents 343–347
Compatibility Checker 387
Compatibility mode 63
compiling
  bibliographies 431–437
  indexes 427
confidential information, removing 386
content control 347–359
contextual tabs See tool tabs
Continuous section break 382
contrast, pictures 197
conversion bubble icons 326
converting
  footnotes into endnotes 418
  tabbed lists into tables 170
  text into WordArt 213
copyright symbols
  inserting 553
Cover Page gallery 495
cover pages
  adding to documents 282–286
  modifying 286–287
  cropping pictures 192–193
cross-references 574
  going to 410
  to index entries 429
  inserting 406, 409
cursor 574
  location 42
  moving 44
custom building blocks 493–497
  deleting 497
  inserting in a document 496–497
custom document elements 479–500
  building blocks 493–497
  styles 480–487
  templates 489–493
  themes 487–488
custom footers 278–279
custom headers 278–279
custom styles 480–487
custom table of contents 423
custom themes 487–488
custom watermarks 275
cycle diagrams 222, 574

D

Dark Gray theme 23
data
  charts 246–250
  inserting into tables 170
mail merge, refreshing 462
merging to new documents 466–467
sorting in tables 171
data labels 251
data markers 250, 255, 574
data points 574
data series 574
data source records
  filtering 458–459
  refining 457
  removing 457–458
  sorting 461–462
data sources 574
  creating new 456–457
  linking to merge fields 462
  mail merge 444
  mail merge requirements 452–453
  selecting existing 453–456
types 453–454
data tables 251, 256
date field
  editing 414
  inserting 414
  locking 415
  updating 414
date, inserting into headers/footers 279
decimal characters 115
Decimal Tab 115
decreasing white space 153
default local folder, changing 515
demoting 574
document sections 300
  headings 304
  paragraphs 549
descending order, sorting bulleted lists 128
design templates, previewing 34
desktop publishing 575
destination files 575
diagrams 575
See also SmartArt
  adding shapes 229
  applying colors to shapes 229, 232
  applying effects to shapes 229, 232
  applying WordArt to shape text 229, 232
  applying built-in styles 229
  changing color schemes 231
  changing from ribbon 228
  changing individual shapes 231
  changing layouts 228, 230
changing on canvas 228
changing shape effects 231
changing shape hierarchy 230
changing shapes 229, 232
changing shape sizes 229
color schemes 223, 228
creating 222–227
entering text into shapes 224, 226–227
expanding 225
inserting pictures 233–235
modifying 227–232
moving shapes 229
picture, creating 233–235
previewing 223
removing shapes 229
replacing picture placeholders 235–236
resetting 228
resetting to default formatting 231
restrictions 223
shape effects 228
shape sizing 225
text limitations 228
Text pane 222–225
types 222
dialog boxes
  edit boxes 566
  using 565
dialog box launcher 575
dictionaries
  bilingual 89
  installing 87, 92
  managing custom 374
Different First Page 280
Different Odd & Even Pages 280
digital signatures 575
Display For Review options 332–333, 575
docking panes 134
document elements 479–500
  building blocks 493–497
  styles 480–487
  templates 489–493
  themes 487–488
Document Formatting gallery 134
Document Inspector 386–389, 575
document property field 415
documents
  See also files
  accessibility 386–389
  accessing 354–359
  adding envelopes 470
documents *(continued)*
  adding to Trusted Documents  541
  adding to Trusted Locations  539
  annotating  345–346
  applying built-in themes  141
  areas  43
  backgrounds  266–269
  bookmarks  406–411
  changing after finalizing  393
  changing margins  379–380
  changing theme elements  141
  closing  9, 64, 548
  coauthoring  325, 359–363
  collaborating  325
  combining  344–346
  comparing  343–347
  content control  347–359
  correcting grammar/spelling  372–375
  cover pages  282–287
  creating  30–34, 548
  cross-references  406–411
  customizing Quick Access Toolbar  528
  decreasing white space  153
  default theme  141
  demoting sections  300
  displaying information in fields  412–415
  displaying open  52
  Document Inspector  386–389
  editing  348–354, 362
  editorial options  508
  electronic distribution  386–391
  as email attachments  396
  emailing from Word  395, 398
  embedding fonts  515
  expanding/collapsing sections  139
  faxing  396
  finding search results  84
  footers  276–280
  formatting columns  155
  going to beginning  550
  going to end  550
  going to specific pages  550
  gridlines  49
  headers  276–280
  highlighting merge fields  464
  hyphenating  153, 156
  identifying locked areas  362
  inserting columns breaks in  156
  inserting comments  550
  inserting indexes  430
  inserting preformatted document parts  281–285
  inserting spreadsheets  162
  inserting symbols into  210
  inserting translated text  94
  inspecting for accessibility  391
  inspecting for issues  390–391
  layout  49
  magnification  49, 51
  managing display options  507
  marking as final  387, 392–393
  mathematical symbols  289–294
  merging  343–347
  moving sections  301
  moving sections in Outline view  305
  moving through  555–556
  navigating  41–45
  opening  4–5, 548
  opening existing  36–40
  opening password-protected documents  356–357
  opening recent  39
  orientation  377
  page numbers  276–280
  previewing merged  466
  printing  397, 550
  printing hidden text  381
  printing options  522
  print preview  378–379
  Protected view  38, 538
  Quick Tables  180–181
  read-only  539
  removing personal information  386, 541
  reorganizing content  300
  restricting formatting changes  348–354
  restricting styles  349–352
  rulers  49
  save options  523
  saving  548
  saving as personal templates  490–491
  saving automatically  59–60
  saving copies  57
  saving fonts with  514
  saving in other formats  60
  saving in PDF format  63
  saving manually  55–57
  saving to OneDrive  58–59
  screen clippings, inserting  200–202
  searching  548
  section breaks  151
Extensible Markup Language (XML)
**Faxing documents**

**F**

faxing documents 396
feedback, submitting xvii
field codes, toggling 560, 563
field names 576
fields 576
Date 560
displaying document information in 412–415
inserting 552
inserting empty 560
linking/unlinking 560, 563
ListNum 560
locking/unlocking 560, 562–563
mail merge 444
navigating 560, 563
Page 560
Time 560
toggling field codes 560
updating 560
file classes, blocking/unblocking 540
file extensions
  blocking/unblocking 540
file formats 60, 576
  .docx format 61
  PDF (.pdf) 62
  Plain Text (*.txt) 61
  Rich Text Format (*.rtf) 61
  XPS (.xps) 62
file properties
displaying 53–54
editing 53–54
  removing personal information 541
file saving options 513–515
file size, managing 520
File tab 9
file types
  blocking/unblocking 540
files
  See also documents
default local location 514
  properties 53–54
  removing personal information 387
  saving drafts automatically 515
filtering 576
filtering charts 249
Final view (Word 2010) See No Markup view
Find all word forms search option 85
Find And Replace 43, 82, 572
finding content 572
finding text 81–82, 548
first line indent 112
First Line Indent marker 110–111
Fixed column width option 167
flipping
  shapes 206
folders
  adding to Trusted Locations 539
font effects 576
font sets 140
font sizes 576
  changing 557, 569
font styles 576
fonts 576
  attributes 118–119
  changing colors 122
  changing for selected text 120
  changing sizes 120, 547–548
default 118
effects 118
embedding 514–515
resizing 557, 569
saving with documents 514
  size 118
  style 118
footers 576
  copying 552
custom 278–279
deleting 281
  inserting into documents 276–280
navigating 279
settings 280
footnotes 416–418, 576, 551
Format pane 259
Format search option 85
Format tool tab 190
formatting 576
  alignment 105
  applying 557
AutoCorrect Options 126
backgrounds 266–269
characters 118–124
chart legends 255
charts 255–259
columns 155, 179
columns in tables 177
commands 204
copying 557
copying to other text 123
data tables 256
gridlines 256
headers (columns/rows) 179
hidden text 558
lists 126
page numbers 280
paragraph borders 113
paragraph shading 113
pasting 548
pictures 190–199
Quick Tables 180–181
removing 124
removing character 548
removing from paragraphs 548
removing restrictions 354
repeating previous commands 123
replacing 548
restricting edits 348–354
rows 179
rows in tables 177
shapes 207–209
tables 175–179
text 103, 120–121, 130
text as you type 130
text on shapes 208
tracked changes 329
formatting marks
  column breaks 152
displaying 52
hiding 52
section breaks 152
formulas 164, 576
framing pictures 194
Function keys 561
functions 164

G
galleries 576
  accessing 571
Columns 150
  saving tables to Quick Tables 181
Table Styles 176
global templates, loading 493
go to locations 549
Go To tab (Find and Replace dialog box) 45
Go To tab (Find And Replace dialog box) 43
Go To What list 45
going to
  bookmarks 408
cross-references 410

gradients 266, 270
grammar
  AutoCorrect 370
correcting 372–374
reviewing 372–374
grahm checking 371
  automatic 508
clearing hidden errors 511
hiding errors 510
ignoring flagged issues 510
setting exceptions 510
setting options 508–510
graphics 576
  See also pictures
copying to Clipboard 552
cutting to Clipboard 552
moving 552, 561
selecting 553
selecting in tables 555
grayscale 576
Greeting Line merge field 463, 465
Grid Tables style 176
gridlines 49, 576
displaying 52
displaying/hiding 313
hiding 52
snapping objects to 314
gridlines (charts) 251, 256
grids
  changing settings 310, 314
displaying 310
grouping shapes 209, 576
groups (ribbon) 11, 576
  adding commands 533
creating custom 533
renaming 532–533

H
Hanging Indent marker 127
hanging indents 111
  creating 112, 559
in lists 125
reducing 559
hard copies 576
headers 577
  copying 552
custom 278–279
deleting 281
inserting date in 279
headers (columns/rows)

headers (continued)
inserting into documents 276–280
inserting time in 279
navigating 279
settings 280
headers (columns/rows) 179
headings
  displaying levels in Navigation pane 300
  outline levels 300
  showing based on style 549
height
  pictures 188
  Revisions pane 337
hexadecimal characters 553
hidden characters 114
hidden comments 326
hierarchy diagrams 222, 577
highlighting text 122
Home tab 10
HTML (Hypertext Markup Language) 577
hyperlinks 577
  to additional resources 410
  attaching to objects 411
  inserting 551
Hypertext Markup Language (HTML) 577
hyphenating 153, 156, 577

I
icons 577
ignore white-space characters 85
ignoring character punctuation 85
images
  compression options 520
  discarding editing data 520
In Front of Text text-wrapping option 307
In Line with Text text-wrapping option 307
indent markers 110, 577
  default settings 111
  First Line Indent 110
  Hanging Indent 127
  Left Indent 110–111
  moving 111
  Right Indent 110
indenting
  lists 127
  paragraphs 112
  paragraphs in columns 156
  tabbed lists 158
  text in columns 154
index 577
index entries 577, 551
index entry field 577
indexes
  compiling 427
  creating 425–430
  cross-references to index entries 429
  editing entries 430
  inserting 430
  inserting entries 426–428
  modifying 425–430
information rights management (IRM) 359
Insert New Equation gallery 289
italic
  applying to text 121

J
jumping locations (table of contents) 424
Justify option 105
justifying 155, 577

K
keyboard
  languages 516–517
  layout for languages 517–518
  moving cursor using 44
  shortcuts in ScreenTips 522
keyboard shortcuts 577
  creating custom 573–574
  Office 2016 564–572
  Word 2016 547–564
KeyTips 561

L
labels See mail merge labels; mailing labels
labels (data) 251
landscape orientation 376, 577
Language bar 561
languages
  See also translating
  changing 92
  configuring translation options 542
  enabling keyboard layout 517
  installing proofing tools 518
  installing for display 518
  keyboard 516–518
  prioritizing 519
  removing editing default 518
  ribbon 516
setting editing default 518
used for editing 517
layout
objects on pages 305
Position gallery 305
positioning content 524
layouts
  diagrams 223, 227–228, 230
tables 168–169
leaders (Table of Contents) 421
Left Indent marker 110–111
Left Tab 115
legends 251, 255, 577
letter case 122, 125
letters
  Address Block merge field 463
  changing case 558–559
  content templates 446
  formatting as capitals 558
  Greeting Line merge field 463
  merge field placeholders 446
  starting mail merge 446–447
line break characters 114
line breaks 577
  inserting 116, 552
line charts 242, 251, 577
line graphs 577
line spacing 106–108, 559
lines, selecting 75
linked charts, opening 247
linked objects 577
Linked styles 133
linking text boxes 288
list diagrams 222, 577
List Tables style 176
lists 125
  See also bulleted lists; numbered lists
  automatic formatting 126
  creating multiple levels 127
  customizing 125
  ending 126
  modifying indentation 127
  tabbed 157–158
Live Preview 506, 577
locking
documents 362
fields 415
lowercase 125

M
macros
  running 563
magnification 15, 49, 51
mailing address, setting 523
mailing addresses
  editing on envelopes 468
  validating 458
mailing labels 472–474
mail merge
  creating new data sources 456–457
  data source requirements 452–453
  data sources 443–444, 446, 453–454
  displaying Mail Merge Recipients list 458
  editing custom greetings 451
  editing data documents 560
  email messages 450–452
  fields 444
  filtering recipients list 458–460
  importing contacts 454
  importing data from Exchange 454
  inserting merge fields 560
  labels 447–450
  letters 446–447
  manually excluding from recipients list 461
  merge fields 445
  merging documents 560
  previewing 560
  printing merged documents 560
  process overview 444–445
  records 444
  refining data source records 457–461
  refreshing data 462
  removing data source records 457–458
  removing duplicate records 460
  selecting existing data sources 453–456
  sorting records in data sources 461–462
  tools 444
  types of output 445
  using the Mail Merge wizard 445
  validating addresses 458
mail merge labels
  manufacturers and products 448
  process 447–450
  uses for 447
mail merges 577
Mail Merge wizard 444–445
main documents 578
managing themes 487–488
manual page breaks 381, 578
manually saving documents 55–57
margins 578
   adjusting 377, 379–380
markers (data) 250
marking index entries 426–428
markups 326, 578
   displaying 332–338
   hiding 336
   responding to comments 338–340
   reviewing comments 338–340
   tracking changes 329–332
   views 332
markup views 333, 578
   All markup 332
   No Markup 333
   Original 333
   Simple Markup 332
master documents, creating 303
Match case search option 84
Match prefix search option 85
Match suffix search option 85
Math AutoCorrect feature 295
mathematical AutoCorrect options 295
mathematical symbols 289–294
matrix diagrams 222, 578
maximizing app windows 17
merge fields 445, 578
   Address Block 463–465
   Greeting Line 463, 465
   highlighting in documents 464
   inserting 462–465
   linking to data sources 462
   placeholders 446
   previewing results 465–466
merged documents, previewing 466
merging
   cells (tables) 166, 174
   data to new documents 466–467
   documents 343–347
Microsoft accounts 22
   settings 24
   tracking changes 336
Microsoft Office 2016 suite of apps 6–7
Microsoft Office Clipboard See Clipboard
Microsoft Office Open XML Formats 60
Microsoft Press contact information xvii
Microsoft Press Store xvii
Microsoft System Information
   displaying 564
Microsoft Translator service 90
Mini Toolbar 119
   displaying 73
   enabling/disabling 505
   turning on 93
Mini Translator 88, 93–94
Mouse mode
   switching between Touch mode 16
N
navigating
   documents 41–45
   footers 279
   headers 279
   tables 170
Navigation pane 42, 578
   browsing by object 45
   displaying 44, 50, 301
   displaying document outlines 138
   displaying heading levels 300
   displaying outline levels 301
   expanding/collapsing outlines 138
   hiding 44, 50
   moving document sections 301
   opening 548
   reorganizing content 300
   searching documents 548
   search options 85
   sizing 50
nested tables 316–318, 578
Next Page section break 382
No Markup view 333, 578
nonbreaking hyphens 547, 552
nonbreaking spaces 547, 553
nonprinting characters 558
   displaying 52
   hiding 52
Normal template 131–132, 489
numbered lists 125–126, 129
See also lists
   restarting 129
number formats
   endnotes 418
   footnotes 418
numbers
   changing styles 128
   defining custom styles 129
objects 578
    aligning 309, 313–314
    anchoring 312–313
    arranging on pages 305–310
    attaching hyperlinks to 411
    browsing by 45
    changing stacking order 315
    copying 548
    cutting 548
    displaying hidden 315
    hiding 315
    moving 310, 314
    pasting 548
    positioning on pages 311
    position settings 308
    selecting 311
    snapping to gridlines 314
    stacked 311
    text-wrapping 307, 312
WordArt 213
Odd Page section break 382
Office 365 7, 25
Office 2016
    choosing backgrounds 504
    choosing color schemes 504
    languages 517
    managing options 503–504
    personalizing 504
Office accounts 24
Office themes 23, 504
Office updates 26
OneDrive
    opening documents 41
    saving files to 58–59
OneDrive for Business 58–59
online bilingual dictionary
    inserting translated text from 94
    translating selected text 89
online machine translator 90
online sources, pictures 188
online templates 34
optional hyphens 552
orientation 376, 380, 578
Original view 333, 578
orphans 381, 578
outdenting paragraphs 111–112
Outline Level settings 137
Outline view 46, 47, 303, 578, 549
    changing outline levels 304
    closing 305
    collapsed content indicators 303
    collapsing/expanding document sections 304
    demoting headings 304
    displaying documents 304
    expanding entire documents 304
    managing content 302–303
    moving document sections 305
    promoting headings 304
    referencing paragraph styles 303
outlines
    See also Outline view
    changing displayed levels 304
    displaying in Navigation pane 138
    displaying levels in Navigation pane 301
    expanding/collapsing 138
    levels 137, 300
    managing with styles 137–139
    subheadings 138
Outlining tab (Outline view) 302–303
P
page breaks
    controlling 381, 383
    inserting 552
    options 381
    paragraph settings 384–385
page layout
    adjusting 375
    adjusting margins 377, 379–380
    adjusting settings 377–378
    controlling with tables 316
    orientation 376, 380
    page breaks 381
    previewing 375
    section breaks 382–383
page numbers 276–280
palettes 578
paper size 377
paragraph formatting 104, 578
paragraph indent 110
paragraph marks 116
Paragraph Spacing options 107
paragraph styles 47, 133, 578
paragraphs 578
    adjusting spacing between lines 109
    aligning 559
    aligning left 105
    aligning right 105
passwords

paragraphs (continued)
applying styles 559
breaking lines 114
centering 105
configuring borders 113
converting to lists 126
demoting 549
displaying in columns 155
drop caps 214
first line indents 112
formatting 104
formatting as lists 125
hanging indents 111–112
hidden characters 114
indentation in columns 156
indenting 110–112
indenting beyond margins 112
indenting right edge 112
inserting in table cells 557
inserting line breaks 116
justifying 105
line break characters 114
line spacing 106
manually positioning text 113
moving 549
outdented 111–112
outdenting right edge 112
page break settings 384–385
promoting 549
removing formatting 559
selecting 75
setting alignment 106
shading 113
soft returns 114
spacing 106
starting new 70
tab characters 114
wrapping lines 114
passwords
opening documents 357
removing 357
restricting document access 354–359
testing 356
paste options 78
pasting content 520
paths 578
patterns 267, 270
PDF files
editing 41
opening 41
saving documents as 63
PDF (Portable Document Format) 62, 578
personal information, removing 386
personal templates, editing 491
Personal Templates folder 490
picture diagrams 579
creating 233–236
inserting into documents 234–235
replacing picture placeholders 235–236
text wrapping 198
width 188
pie charts 243, 255, 579
pinning documents to Recent file 39
placeholders, citations 436–437
placeholders, merge fields 446
Plain Text (*.txt) 61
plot area 250, 255, 579
plotting charts 246
pointing to 579
points 579
Portable Document Format (PDF) 578
portrait orientation 376
portraits 579
Position gallery 305
positioning
objects 309–310
pictures 198
posts 579
practice files xiv–xvii
ribbon 9–12, 579
See also user interface
adaptation procedures 20–21
changing focus 568
customizing 503, 529–531
displaying all commands 524
expanding/collapsing 568
hiding 15, 17
languages 516
moving between tabs 568
navigating 568
removing groups from tabs 532
resetting to default 534
showing/hiding tabs 531
status bar 14–19
touch interaction 19
width 15
Rich Text Format (*.rtf) 61
Right Indent marker 110–111
Right Tab 115
rotating shapes 206
rows (tables)
  borders 178
  formatting 177, 179
  inserting 173
  selecting 172
  shading 178
  sizing 165, 173
.rtf file format 61
ruler 49
  changing measurements 111
  displaying 52
  hiding 52
  indent markers 110
  tab stops 114
S
saturation 580
saving
  automatically 59–60
  AutoRecover options 514
  content as building blocks 495–496
  copies 57
  custom themes 487–488
documents as personal templates 490–491
documents, options 522–523
drafts, automatically 514–515
envelopes 472
equations 294
file options 513–515
fonts with documents 514
manually 55–57
to OneDrive 58–59
in other formats 60
in PDF format 63
style definitions as a style set 486
tables to Quick Tables gallery 181
screen clippings 200–202, 580
screen resolution 15, 17
ScreenTips 81, 580
  configuring display 522
  controlling display 506
  keyboard shortcuts 522
  printers 394
search box 81
searching 81–82
  for text 83
  ignoring character punctuation 85
  ignoring white-space characters 85
  using Match case 84, 84–85
  using Match prefix 85
  using Match suffix 85
  using options 84–85
  using wildcard characters 85
search results, navigating 81–83
section breaks 151, 382–383, 580
  inserting 385
  removing 385
security
  restricting access using passwords 354–359
  Trust Center 537
selection area 73, 580
Selection pane 311
selections, extending 554
series axis 580
Set As Default Shape command 209
shading
  cells (tables) 178
  columns (tables) 178
  paragraphs 113
  rows (tables) 178
shapes
See also diagrams
  adding to diagrams 229
  applying colors 229, 232
  applying effects 229, 232
  applying WordArt to text 229, 232
  changing effects 231
  changing sizes 229, 232
  copying formatting to other shapes 209
  creating 204
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>drawing</td>
<td>202–213</td>
</tr>
<tr>
<td>entering text</td>
<td>224, 226–227</td>
</tr>
<tr>
<td>flipping</td>
<td>206</td>
</tr>
<tr>
<td>formatting</td>
<td>207–209</td>
</tr>
<tr>
<td>grouping</td>
<td>209</td>
</tr>
<tr>
<td>modifying</td>
<td>202–213</td>
</tr>
<tr>
<td>moving</td>
<td>205–207</td>
</tr>
<tr>
<td>rotating</td>
<td>206</td>
</tr>
<tr>
<td>selecting</td>
<td>206</td>
</tr>
<tr>
<td>sizing</td>
<td>206</td>
</tr>
<tr>
<td>text, adding</td>
<td>203–204</td>
</tr>
<tr>
<td>Text Box margins</td>
<td>204</td>
</tr>
<tr>
<td>text, drawing</td>
<td>203–204</td>
</tr>
<tr>
<td>text, formatting</td>
<td>208</td>
</tr>
<tr>
<td>ungrouping</td>
<td>209</td>
</tr>
<tr>
<td>Share pane</td>
<td>360–361</td>
</tr>
<tr>
<td>SharePoint libraries</td>
<td>580</td>
</tr>
<tr>
<td>shortcut menus, displaying</td>
<td>568, 571</td>
</tr>
<tr>
<td>Show Document Text check box</td>
<td>280</td>
</tr>
<tr>
<td>Simple Markup view</td>
<td>332, 336, 580</td>
</tr>
<tr>
<td>size</td>
<td></td>
</tr>
<tr>
<td>charts</td>
<td>254</td>
</tr>
<tr>
<td>fonts</td>
<td>118</td>
</tr>
<tr>
<td>sizing</td>
<td></td>
</tr>
<tr>
<td>columns (tables)</td>
<td>155, 165, 172</td>
</tr>
<tr>
<td>Navigation pane</td>
<td>50</td>
</tr>
<tr>
<td>pictures</td>
<td>186–189</td>
</tr>
<tr>
<td>rows (tables)</td>
<td>165, 173</td>
</tr>
<tr>
<td>shapes</td>
<td>206</td>
</tr>
<tr>
<td>style area pane</td>
<td>51</td>
</tr>
<tr>
<td>tables</td>
<td>165, 173</td>
</tr>
<tr>
<td>sizing handles</td>
<td>580</td>
</tr>
<tr>
<td>SmartArt</td>
<td></td>
</tr>
<tr>
<td>See also diagrams</td>
<td></td>
</tr>
<tr>
<td>applying colors</td>
<td>229</td>
</tr>
<tr>
<td>applying effects</td>
<td>229</td>
</tr>
<tr>
<td>changing shape effects</td>
<td>231</td>
</tr>
<tr>
<td>changing shape sizes</td>
<td>229</td>
</tr>
<tr>
<td>creating diagrams using</td>
<td>222–227</td>
</tr>
<tr>
<td>pictures</td>
<td>233</td>
</tr>
<tr>
<td>resizing</td>
<td>229</td>
</tr>
<tr>
<td>SmartArt graphics</td>
<td>580</td>
</tr>
<tr>
<td>See diagrams</td>
<td></td>
</tr>
<tr>
<td>snapping to grid</td>
<td>310, 314</td>
</tr>
<tr>
<td>social media</td>
<td>25</td>
</tr>
<tr>
<td>soft page breaks</td>
<td>381, 580</td>
</tr>
<tr>
<td>soft return</td>
<td>114</td>
</tr>
<tr>
<td>Sounds like search option</td>
<td>85</td>
</tr>
<tr>
<td>source files</td>
<td>580</td>
</tr>
<tr>
<td>Source Manager</td>
<td>431–437</td>
</tr>
<tr>
<td>sources</td>
<td></td>
</tr>
<tr>
<td>bibliographies</td>
<td>434</td>
</tr>
<tr>
<td>citing</td>
<td>431–437</td>
</tr>
<tr>
<td>creating</td>
<td>432</td>
</tr>
<tr>
<td>creating sources with multiple authors</td>
<td>435</td>
</tr>
<tr>
<td>spacing</td>
<td></td>
</tr>
<tr>
<td>line</td>
<td>106–108</td>
</tr>
<tr>
<td>vertical spacing</td>
<td>106–108</td>
</tr>
<tr>
<td>special characters, inserting</td>
<td>553</td>
</tr>
<tr>
<td>Special search option</td>
<td>85</td>
</tr>
<tr>
<td>spelling</td>
<td></td>
</tr>
<tr>
<td>AutoCorrect</td>
<td>370</td>
</tr>
<tr>
<td>correcting</td>
<td>372–375</td>
</tr>
<tr>
<td>error indicators</td>
<td>370</td>
</tr>
<tr>
<td>flagged errors</td>
<td>371</td>
</tr>
<tr>
<td>reviewing</td>
<td>372–374</td>
</tr>
<tr>
<td>spelling checking</td>
<td>343, 371</td>
</tr>
<tr>
<td>automatic</td>
<td>508</td>
</tr>
<tr>
<td>clearing hidden errors</td>
<td>511</td>
</tr>
<tr>
<td>hiding errors</td>
<td>510</td>
</tr>
<tr>
<td>reviewing errors</td>
<td>509</td>
</tr>
<tr>
<td>setting exceptions</td>
<td>510</td>
</tr>
<tr>
<td>setting options</td>
<td>508</td>
</tr>
<tr>
<td>Spike</td>
<td></td>
</tr>
<tr>
<td>cutting content to</td>
<td>551</td>
</tr>
<tr>
<td>inserting contents of</td>
<td>563</td>
</tr>
<tr>
<td>splitting</td>
<td></td>
</tr>
<tr>
<td>cells (tables)</td>
<td>166</td>
</tr>
<tr>
<td>document windows</td>
<td>548</td>
</tr>
<tr>
<td>windows</td>
<td>52</td>
</tr>
<tr>
<td>spreadsheets</td>
<td></td>
</tr>
<tr>
<td>cells</td>
<td>164–165</td>
</tr>
<tr>
<td>inserting into documents</td>
<td>162</td>
</tr>
<tr>
<td>Square text-wrapping option</td>
<td>307</td>
</tr>
<tr>
<td>stacked objects</td>
<td>311</td>
</tr>
<tr>
<td>stacking order, changing for objects</td>
<td>315</td>
</tr>
<tr>
<td>stacks</td>
<td>580</td>
</tr>
<tr>
<td>Start screen</td>
<td>30</td>
</tr>
<tr>
<td>status bar</td>
<td>13–19, 42, 580</td>
</tr>
<tr>
<td>document statistics</td>
<td>91</td>
</tr>
<tr>
<td>ribbon</td>
<td>14–19</td>
</tr>
<tr>
<td>specifying items on</td>
<td>19</td>
</tr>
<tr>
<td>status bar indicators</td>
<td>580</td>
</tr>
<tr>
<td>strikethrough</td>
<td>121</td>
</tr>
<tr>
<td>style area pane</td>
<td>580</td>
</tr>
<tr>
<td>displaying</td>
<td>51</td>
</tr>
<tr>
<td>sizing</td>
<td>51</td>
</tr>
<tr>
<td>Style gallery</td>
<td></td>
</tr>
<tr>
<td>adding styles to</td>
<td>485</td>
</tr>
<tr>
<td>customizing</td>
<td>480</td>
</tr>
<tr>
<td>removing styles from</td>
<td>486</td>
</tr>
</tbody>
</table>
style rules, citations  434
styles  48, 480–487, 580
  adding to the Style gallery  485
  applying  131–132
  applying to paragraphs  559
  built-in, applying to text  131–137
  character  133
  charts  257–258
  defining custom numbers  129
  deleting custom styles  487
  fonts  118
  linked  133
  live preview  134
  modifying definitions  134
  Normal template  132
  numbers  128
  paragraph  47, 133
  predefined  131
  removing from the Style gallery  486
  replacing styles attached to content  493
  restricting  349–352
  tables  179
  style sets  134
  changing  137
  saving style definitions as  486
  Styles gallery  131
  Styles pane  133–136
  subentries  429, 580
  subscript  121, 558
  subscriptions, Office 365  25
  superscript  121, 558
  Switch Row/Column button  248
  switching views  50
  symbols, inserting  210–211
  synonyms  88, 92

T
  tab stops  114, 157–158, 581
    custom, changing positions  117
    custom, removing  117
    custom, setting  114
    default settings  114
    positioning  115
    setting  115, 117
  tabbed lists  157–159, 581
    converting into tables  170
    formatting columns  158
    indenting  158
  tab characters  114, 116
  tab leaders  115, 581
  table of authorities  581
    marking  551
  table of contents  581
    creating  419–424
    custom  423
    deleting  424
    jumping locations  424
    leaders  421
    marking  551
    modifying  419–424
    updating  424
  Table Of Contents controls  420
  table of figures  581
  table styles  581
  Table Styles gallery  176
  tables  581
    adding calculations to  170
    aligning text  171
    backgrounds  179
    borders  178–179
    breaking columns manually  154
    cell borders  178
    column borders  178
    converting tabbed lists into  170
    creating blank tables  159
    creating customized tables  159, 167
    creating empty tables  160
    creating pre-set grids  167
    data  251, 256
    deleting  174
    drawing  167
    emphasizing columns  177
    formatting  175–179
    formatting columns  177, 179
    formatting rows  177, 179
    indenting text in columns  154
    inserting cells  165, 174
    inserting columns  173
    inserting data into  170
    inserting paragraphs in cells  557
    inserting rows  173
    inserting tab characters  557
    justifying text in columns  155
    layout options  168–169
    merging cells  174
    modifying structure  165–166
    moving around in  556, 570
    navigating  170
    nested  316–318
presenting information in 159–172
presenting information in columns 150–156
Quick Tables 180–182
reference 423
saving to Quick Tables gallery 181
selecting 172
selecting cells 171
selecting columns 172, 555
selecting entire 555
selecting graphics 555
selecting rows 172
selecting text 555
shading cells 178
shading columns 178
shading rows 178
sizing 165, 173
sizing columns 155, 165, 172
sizing rows 165, 173
sorting data in 171
styles 179
working in 570
tabs 116, 581
aligning 117
displaying 18
inserting 550
inserting in table cells 557
types 115
tabs (ribbon)
creating custom 532
removing groups 532
renaming custom 532
showing/hiding 531
targets 581
templates 489–493, 581
creating documents 30–31, 34
editing 491
letters 446
loading global templates 493
locations 513
saving documents as 490–491
styles stored in 133
testing passwords 356
text
aligning in tables 171
applying artistic effects 121
applying bold 121
applying built-in styles 131–137
attaching hyperlinks to 411
changing case 122
changing font color 122
changing fonts 120
changing font size 120
character formatting 118–124
collapsing 549
converting into WordArt 213
copying 73, 548
copying between locations 77
copying formatting 123
copying to Clipboard 76, 552
crossing out 121
cutting 73, 548
cutting to Clipboard 76, 552
deleting 74, 80
deleting characters 80
displaying bookmarks in 408
dragging selections 73, 77
effects 120
entering 70
expanding 549
finding 548
formatting as bold 121
formatting as italic 121
formatting as you type 130
highlighting 122
importing 72–73
indenting in columns 154
justifying in columns 155
manually positioning in paragraphs 113
moving 73, 77, 552, 561
moving around in 570
paste options 78
pasting 73, 78, 548
pasting from Clipboard 76
releasing selections 76
replacing 86, 548
searching for 83
selecting 72, 75–76, 553
selecting all 76
selecting in tables 555
shapes, adding 204
shapes, formatting 208
strikethrough 121
translating 88–91
underlining 121
WordArt 120
WordArt, adding 211–214
WordArt styles 258
text boxes 581
inserting 282, 288
linking 288
Text Box margins

- Text Box margins 204
- text building blocks 287–288
- text formatting 558
- Text pane 222–225
- textures 266, 270
- text watermarks 275
- text wrapping 581
  - breaks 581
  - changing 312
  - options 307–308
  - pictures 198
- themes 23, 139, 487–488, 581
  - built-in, applying to documents 141
  - changing default 141
  - changing elements in documents 141
  - changing in documents 139
- Colorful 23
- color sets 140
- custom 140–141
- Dark Gray 23
- font sets 140
- White 23
- Themes gallery 139
- Thesaurus pane 87–88, 92
- Through text-wrapping option 307
- thumbnails 581
- tick-marks 581
- Tight text-wrapping option 307
- time
  - adjusting intervals between saves 60
  - displaying tracked change time 341
  - inserting into headers/footers 279
- time field
  - editing 414
  - inserting 414
  - locking 415
  - updating 414
- title bar 8–9
- titles
  - chart axes 251
  - charts 251, 256
- tools
  - See also apps
  - dictionaries 88
- tool tabs 581
- Top and Bottom text-wrapping option 307
- touch interaction, ribbon 19
- Touch mode 15
  - switching between Mouse mode 16
- tracked changes, user identification 506
- tracking changes 329–332
  - accepting 341–342
  - colors 329, 331
  - default formatting 329
  - displaying author of 341
  - displaying revision types 337
  - displaying time of 341
  - Microsoft accounts 336
  - moving sequentially among 338
  - preventing reviewers from turning off change tracking 331
  - rejecting all 342
  - removing selected changes 342
  - reviewing 340–343
  - tracking changes without displaying 330
  - turning change tracking on/off 330
  - turning off 550
  - unlocking change tracking 332
- trademark symbols 553
- translating 88–94
- translation options 542
- translation tools 88–90
- trendlines 251
- Trust Center 537–542
- Trusted Documents 541
- Trusted Locations 539
- Twitter address for Microsoft Press xvii
- .txt file format 61

U
- underline 121
- undoing actions 80, 548, 551, 569
- Unencrypted option 354
- ungrouping shapes 209
- Unicode characters 553
- updates for Office 26
- updating
  - bibliographies 437
  - date field 414
  - placeholders 437–438
  - table of contents 424
  - time field 414
- uppercase 125
- URLs 410
- user identification 506
- user interface 3, 5–21, 504
  - See also ribbon
  - documents 6
  - utilities See add-ins
V
value axis  581
versions, compatibility  63
versions (documents)
    comparing  346–347
    control  347–359
vertical spacing
    adjusting  108
    configuring  106
videos, adding to documents  199
viewing comments  333–334
views  333, 582
    All markup  332
    documents  46–52
    Draft  46, 47
    magnification  49, 51
    No Markup  333
    Original  333
    Outline  46–47
    Print Layout  46–47
    Read Mode  46
    Simple Markup  332
    switching  50
    Web Layout  46
View Shortcuts toolbar  13, 581

W
watermarks  582
    custom  275
    inserting in backgrounds  272–274
    removing  276
    text  275
Web App  See Word Online
web browsers  582
Web Layout view  46, 582
webpages  582, 551
white spaces
    decreasing  153
    displaying  50
    hiding  47, 50
White theme  23
widows  381, 582
width
    pictures  188
    ribbon  15
wildcard characters  84, 582
windows
    closing  562
    displaying  564–565
    maximizing  17, 562
    navigating  562
    splitting  52
Word app  8–13
Windows 7, starting Word  4
Windows 8, starting Word  4
Windows 10, starting Word  4
Word 2016
    compatibility  63
    customizing functionality  503
    managing options  503–504
    starting  4–5
    version compatibility  387, 391
Word add-ins  534
Word app window  8–13
WordArt  120
    applying to shape text  229, 232
    chart text  258
    converting text into  213
    customizing  232
    objects  213, 582
    text, adding  211–214
Word Count  91
Word Online  7, 582
word processing  3, 582
words, displaying definitions  91
word wraps  582
worksheets
    changing areas  248
    creating charts in Word  243
    selecting data  248
    wrapping text around pictures  198
writing style, automatic checking  508

X
x-axis  582
XML (Extensible Markup Language)  60, 575
XPS (.xps) format  62

Y
y-axis  582

Z
z-axis  582
zooming  550
Zoom Slider tool  13
About the author

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