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Foreword

am delighted to introduce this book by Alex Mamishev and Murray Sargent on writing technical papers in Microsoft Word. This is a book I have wanted to see for some time, and I believe it will be of great assistance to technical authors in academia, research, and business. The idea of commissioning such a book came to me on hearing a seminar by Alex on his STREAM Tools while at the same time learning about Murray's wonderful work on mathematical equations in Word.

I started my academic life in the 1970s as a theoretical particle physicist. The research papers and books I wrote then were littered with complex mathematical equations, multiple integrals, and arcane symbols. My first papers were, of course, produced with a typewriter but, with the advent of mini-computers like DEC's famous VAX, I progressed to using the UNIX troff typesetting system. When I moved into computer science in the mid-1980s, I switched to LaTeX, written by Leslie Lamport and based on Donald Knuth's TeX typesetting system, and still beloved within the computer science and particle physics communities. But with the arrival of the IBM PC in 1981, I also found myself using WordStar and later WordPerfect to write collaborative project proposals that did not require mathematical notation. A decade or so later, as a university department chair, I found myself switching to Word for compatibility with others in the department and university administration. My complete conversion to Word came with my leadership of the multidisciplinary eScience Initiative in the UK in the early 2000s. I now found myself regularly collaborating with diverse communities of scientists who either did not know or want to use LaTeX!

We live in a world of collaboration in which working as part of a team to solve a complex problem or to undertake a specific task is a necessity, be it in business or in academia. In science, multidisciplinary collaboration between scientists of many disciplines is fast becoming the new norm. Similarly, project proposals and technical reports frequently involve many different parts of an organization or multiple organizations. Capturing the output of such diverse teams in a professional and attractive looking document is now more important than ever. In large part, this book was written to assist the many Word users who have not yet stepped up to using the advanced features of Word to more easily produce long documents with equations, tables, references, and footnotes. The template techniques described in this book will enable distributed teams to collaborate on documents using a common platform.

So I very much welcome this book and congratulate Alex and Murray for producing such an accessible text. I certainly know that using such templates and the other advanced features explained here would have made writing my latest book a whole lot easier!

Tony Hey Vice President, Microsoft Research October 2013

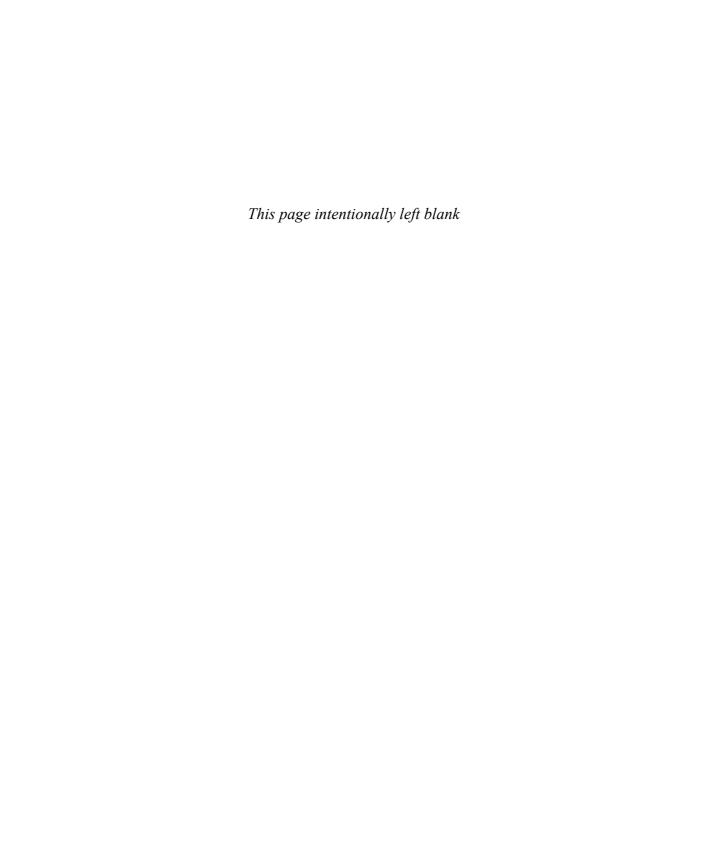
Acknowledgments

We would like to thank many individuals for their participation in various stages of this project.

At the University of Washington, several generations of students were the first adopters of the techniques described here. While it is impossible to name them all, some of the most active ones were Nels Jewell-Larsen and Kishore Sundara-Rajan. Overall, more than fifty people contributed to this project in different ways, and we would like to thank all of them here.

Joshua Hutt did a tremendous job setting up the text of this book in Word, updating the contents of the manuscript as he went along. Aaron Zielinski meticulously proof-read and copyedited the text before it went to the publisher.

Several Microsoft employees greatly contributed to this project. Microsoft VP for Research, Tony Hey, recognized the value of this method and supported the project early on. Devon Musgrave directed the production process.



Introduction

The goal of this book is to teach the reader how to use the powerful features of Microsoft Word 2013 to develop complex technical documents. Writing long documents that are filled with equations, tables, cross-references, and literature citations requires the proper use of the advanced features in Word 2013; otherwise, the productivity and output quality of the writer or group are diminished.

The intended audience for this book is engineers, scientists, graduate students, and technical professionals. Typical readers from these groups have good working knowledge of Word. They have used it to write reports, resumes, and cover letters, and they know how to format text and look up online help. However, when it comes to writing a longer document, for example, a PhD dissertation, or a document that takes input from a dozen authors, for example, a multi-disciplinary research proposal, the basic techniques become insufficient.

A common recourse for this audience is to use LaTeX or TeX for their typesetting needs. In some specialties, it is possible to rely exclusively on LaTeX. However, most of those using LaTeX will sooner or later face the challenge of developing a document in Word, because of the requirements of a project leader or funding organization, or just because there is no chance that some of the team members will use LaTeX in their collaborative writing effort. When this situation occurs, it's time to learn about the advanced features of Word, which allow matching nearly every functionality of LaTeX-based software, while also being accessible to less sophisticated computer users. Moreover, even the most proficient users of LaTeX will find that collaborating on documents produced in Word is quicker and more efficient, provided they follow the guidelines explained in this book.

This book is based on STREAM Tools methodology. STREAM Tools is a writing system based on using efficient processes to produce quality content and attractive documents. STREAM Tools seeks to enable and automate parts of the writing process, but it does not substitute for the process itself. More about STREAM Tools can be found in "Appendix B: About STREAM Tools."

Who this book is for

This book has been designed for use by anyone in academia, industry, or commerce who needs to produce complex, high-quality technical documents, such as research papers, grant proposals, books, or doctoral dissertations. The methods in this book are, for the most part, also applicable to earlier versions of Word; you simply have to find the alternative locations of buttons in the user interface.

How this book is organized

Ideally, you should read this book once, completing the recap sections at the end of each chapter. This will familiarize you with the principles and best practices of template use. When you are finished with this book, you will be proficient in the use of templates, and you will have the skills necessary to expand your use of templates as you desire. We recommend that you keep this book nearby and continue to refer to it as you write. Before long, you will also be able to create templates of your own, for any purpose.

If you work on documents with others, it's important that they use the same system and the same template-centered approach. Consolidating your methods will save you countless hours of modifying your document's formatting and organization, and help you avoid visual and stylistic inconsistencies along the way.

It is also worth noting that any portion of a document built with such templates can be instantly and effortlessly imported into any other template-based document. In this way, you can greatly improve your efficiency as you escape the tradition of meticulously scrutinizing document numbering, formatting, and other small details.



Note The Word 2013 program is not available from this website. You should purchase and install that program before using this book.

Terminology

This book uses various terms with which you may be unfamiliar. The following table provides a short list of some key terms, their definitions, and where they are first described.

Term	Definition	First introduced
Template	Any document with pre-made headings, sections, styles, and fields.	Page 2
Element	Headings, equations, figures, tables, and references.	Page 3
Cross-Reference	Text in Word 2013 that refers directly to other text in the document. Will update when the source text is changed (generally requires pressing Ctrl+A and F9).	Page 16
Field Codes	Text that is automatically generated by Word. Includes cross-references.	Page 40
Yellow Text	Filler text that describes the type of text that belongs in a section of the document.	Page 2
Styles	Feature in Word 2013 that can be applied to quickly change the appearance and layout of text, both per character and per paragraph.	Page 6
STREAM Tools	Collaborative writing system developed by Alexander Mamishev and Sean Williams. See http://www.streamtoolsonline.com.	Page 13

Symbols and notations used in this book

Throughout the book, you will encounter many instructions on how to perform various tasks in Word 2013. These tasks will often involve navigating through menus and using keystrokes, in addition to following along with examples. The formatting conventions used in this book are described in the following sections.

Formatting of menu operations

Menu options and button clicks will appear in bold. When you are required to click multiple menu options in short succession, they will be separated by double-bar arrows, like so:

Menu ⇒ Menu ⇒ Menu Option

Formatting of keystroke operations

Keystrokes will also appear in bold. Those that are meant to be pressed simultaneously will be separated with plus signs:

Keystroke + Keystroke

Keystrokes that are meant to be pressed in succession will be separated with singlebar arrows:

Keystroke → **Keystroke**

Formatting of notes



Note Notes will appear formatted like this.

Formatting of good examples



Good example.

Formatting of bad examples



Bad example.

Errata

We've made every effort to ensure the accuracy of this book and its companion content. Any errors that have been reported since this book was published are listed here:

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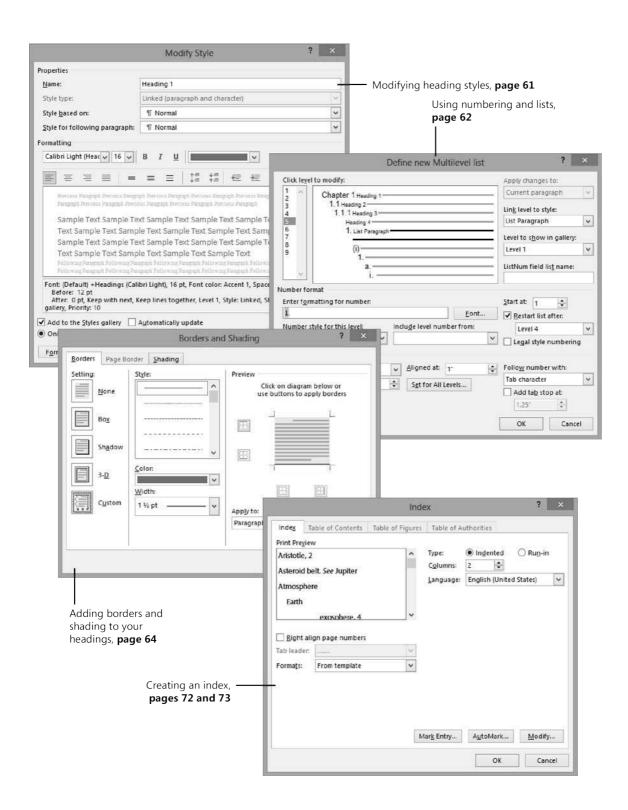
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How to work with headings

In this chapter, you will learn how to

- Create and cross-reference headings
- Use multilevel lists to organize your headings
- Enhance your headings with borders and shading
- Create page numbers and adjust their format
- Create tables of contents and limited, section-based tables of contents
- Create front matter, such as acknowledgments and forewords
- Create back matter, including appendices and indexes

Headings are the titles of chapters, sections, and subsections. You can use headings to give your document logical structure. In addition to generic, black-and-white headings, you can also create colorful, artistic headings. The effects are easy to create. This chapter will walk you through all aspects of heading creation, ensuring that your headings will be functional, powerful, and attractive.

How to create and cross-reference headings

There are two ways to make headings:

- Copy an existing heading.
- Create a new heading.



Note Because headings do not require cross-references, you might find it simpler to create them from scratch.

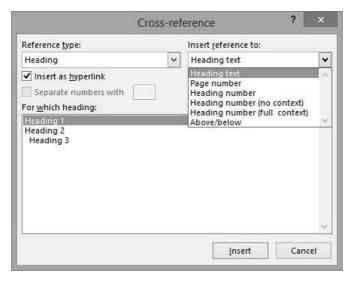
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To create a new heading

- **1.** Type the heading text where you want it in the document.
- Click a Heading style in the Style gallery on the Home tab. Alternatively, you can press Ctrl+Alt+#, where # is the heading level you would like to create.
- 3. Press Ctrl+A, and then press F9 to update the numbering and table of contents.

To cross-reference a heading

- 1. Click References ⇒ Cross-Reference in the Captions group.
- In the Reference type drop-down list, select Heading, and then select a heading for crossreferencing.
- 3. In the **Insert reference to** drop-down list, select what you would like to cross-reference, and then click **OK**.



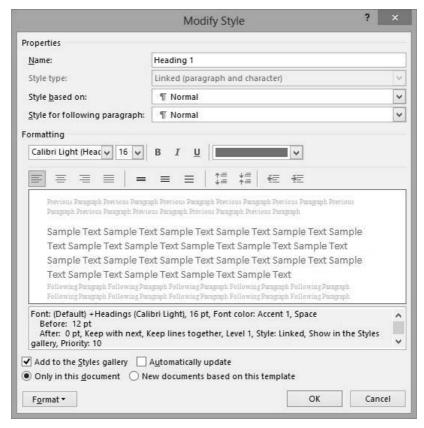
You can reference the heading number, the page number, or even the text of the heading.

How to alter headings

Writing teams will often need to change the appearance of headings to meet the needs of a particular writing situation. The two most common changes include altering style (font and size) and altering format (numbering schemes). In the procedure that follows, you will learn how to modify the style of a single heading level. To change the fonts, colors, and other properties for all the headings in your document, refer to Chapter 2, "How to design templates."

To alter the heading style

- 1. Click the **Home** tab on the ribbon.
- 2. Right-click the **Heading 1** style, and then click **Modify**.
- 3. In the **Modify Style** dialog box, alter the font, size, and spacing for your heading.
- **4.** Adjust additional style properties by clicking the **Format** button, choose an element to change, and then click **OK**.



By using the Modify Style dialog box, you can alter a style without losing the manual adjustments you have made. Make sure the Automatically Update check box is cleared.



Note To avoid having to modify the style directly each time, you can select **Automatically update**. Word will then update the formatting for all your headings whenever you modify the attributes of a single one. This can be useful for specialized styles, such as headings. For more general styles, such as the Normal style, it is recommended that you not select this setting to avoid unnecessary complications.

Also note that if you use the **Update Style to Match Selection** menu item, you will lose any formatting changes that you made to text that uses the same style. To avoid this, it is recommended that you use the **Modify Style** dialog box instead.

How to use numbering and multilevel lists

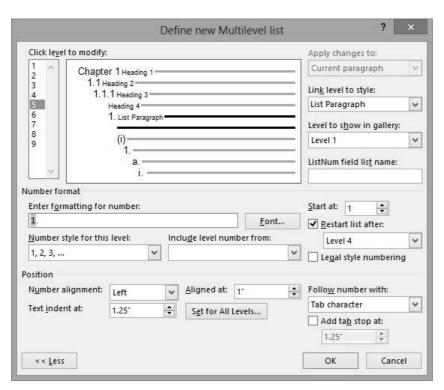
Numbered lists, particularly multilevel lists, are an important part of chapter and section organization. When used properly, these lists help you organize your documents, and create automatically numbering and updating references. These lists are tied directly to your heading styles, so it makes sense to adjust them at the same time.

To create a multilevel list

Place the cursor on a line with a heading.



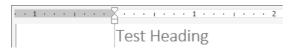
- 2. Click the multilevel list button on the Home tab, and click Define new Multilevel list.
- Click the More button to access important settings.



Use a multilevel list to create a cohesive numbering system by linking your styles to list levels. You can also remove the numbers for a level or include custom text.

- 4. Click a level to specify its settings.
- **5.** You can choose a word for the prefix or use none at all; here, *Chapter* has been chosen. Simply type it in the **Enter formatting for number** box.
- **6.** If you would like to use letters or roman numerals for a level, choose a different numbering scheme in the **Number style for this level** box.
- 7. Finally, if you want to hide the number for a particular level, simply click **Font** and make sure the **Hidden** check box is selected.
- **8.** Click **OK** when you are finished.

By default, the numbers are linked to the heading styles, but you can choose other styles if you like. When you insert one of the corresponding styles in your document, it will be numbered automatically. If you chose to hide the number for a level, you might want to align it flush with the margin. To do so, insert the style in the document, and then click the bottom half of the ruler marker and drag it to the left.



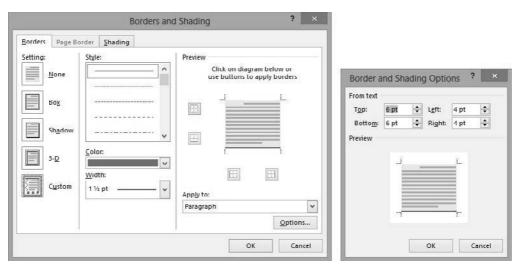
You can chose the default indentation for any style by dragging the ruler marker that appears at the bottom of the ribbon. After adjusting it, update the style in the Style gallery.

How to set borders, shading, and special formatting

If you are designing something other than a standard research report or proposal, you might consider using fancy borders and formatting for your headings.

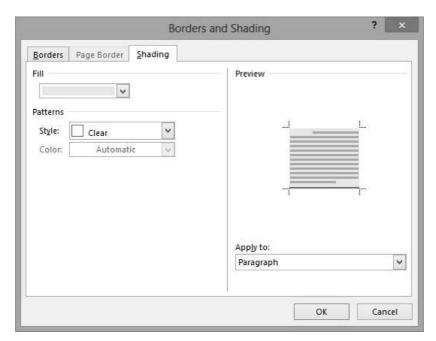
To set up borders and shading

- **1.** Right-click the **Heading 1** style in the **Style** gallery, and click **Modify** ($\cancel{4}$).
- Click the Format button in the lower-left corner, and then click Border.
- 3. Choose a border color, width, and style, and click the border buttons to choose where to place the border. You can use different border styles for each side; just change the line settings and click a different border button. Click the **Options** button to adjust the padding and make the shaded region larger.



In the Borders And Shading dialog box, you can create borders and change their placement relative to your text. To ensure that the shading extends to fit the padding you choose, add a white border (to the top, in this example).

4. To modify the shading, click the **Shading** tab. To use a pattern, select one under **Patterns**, and choose a color, if you like.



You can add shading and patterns to your styles on the Shading page.

5. Click **OK** in all dialog boxes.



6. To make your border extend to the edge of the page, simply drag the parts of the ruler marker to the edges.



When you align the ruler markers to the edges of the page, your newly designed style will fill the page.



Note This method does not work well with headings of more than one line. The heading text will extend to the edge of the page. Therefore, you should use soft line breaks (**Shift+Enter**) to begin a new line before your line enters the margin, as depicted in the preceding graphic. Unfortunately, this will cause the line breaks to appear in your cross-references, and you must manually remove them before printing.

To view formatting marks such as those shown in the previous graphic, click the **Paragraph** button on the **Home** tab (\P) .

How to make headings work with fields

Create front matter

A long document such as a thesis or book often requires front matter, such as a preface, acknowledgments, or a table of contents. The headings for these sections are treated differently from the main document headings, because they are numbered in roman numerals whereas the main text is numbered with arabic numerals.

Control page numbers

To insert page numbers



- 1. Click the Insert tab, and in the Header & Footer group, click Page Number.
- 2. Choose your preference; for example, **Bottom of the Page**.
- **3.** Choose your desired appearance.
- **4.** To number the beginning of your document in roman numerals, click **Page Number** again, and then click **Format Page Numbers**().

- 5. Under Number Format, choose a numbering style.
- 6. Click OK.

To create section breaks

1. Place the cursor where you would like roman numbering to end.



2. On the Page Layout tab, click Breaks.



3. In the **Section Breaks** group, select **Next Page**. This inserts a section break between the two pages.

To restart numbering after a section break



- **1.** Place the cursor after the section break (), in the section you want to renumber.
- 2. On the Insert tab, click Page Number, and select Format Page Numbers.
- 3. Under Number Format, choose arabic numerals.
- 4. In the Page Numbering text box, select Start at: 1.
- 5. Click OK.



Note You can manage your page numbering scheme in greater detail on the **Header & Footer Design** tool tab. To access it, double-click the page header and click the **Design** tab that appears.

From here, you can check **Different First Page**, and delete the page number that appears on the first page of the section. Additionally, you can use **Different Odd & Even Pages** to align your page numbers to the outside, for a book-like layout.



The Header & Footer Tools Design tab will let you fully customize the behavior and appearance of your headers.

Insert a table of contents

Sometimes you want to add entries to the table of contents that are not numbered Chapter 1, Chapter 2, and so on. For example, the preface, acknowledgments, and abstract should be listed in the table of contents, but wouldn't be sequentially numbered headings. In order to include these entries, you first have to create a new style, and then modify the table of contents to include the new style.

Stage 1: Create a new style for front matter

1. Manually change the front matter heading to look the way you want (for example, Arial, 20 pt, bold, centered).



Note Alternatively, you could base the front matter heading on your **Heading 1** style. This will allow the front matter heading to inherit any changes that you make to the **Heading 1** style.

To do this, create a front matter heading and apply the **Heading 1** style to it (**Ctrl+Alt+1**). Then, complete the following steps, making sure to remove the numbering from the style. In the **Modify Style** dialog box, click **Format**, then **Numbering**, and choose **None**.

- 2. Place the cursor on your newly formatted heading and click the button in the lower-right corner of the **Style** gallery ().
- **3.** Choose **Create a Style** at the bottom of the drop-down menu, and type in the style name; for example, **Front Heading**.
- **4.** Click **Modify**, and choose **Normal** under **Style for the Following Paragraph**.
- 5. Click OK.
- **6.** Apply this style formatting to all other front matter headings by using the **Style** gallery, as with any other heading style.

Stage 2: Add front matter sections to the table of contents

1. Place the cursor where you would like the table of contents to appear (or on the existing table of contents, if there is one).



- 3. Click the Options button.
- **4.** In the **Available styles** section of the dialog box, add a **1** in the **TOC level** box for **Front Heading**.



You can specify which styles are included in your table of contents in addition to the hierarchy.



Note If you are using a style (such as **Appendix**) for back matter, at this point remember to put a **1** in the corresponding box as well. Detailed procedures for the back matter are discussed in the next section.

You should now have a new table of contents with the headings from your front matter listed with their respective page numbers. If you completed the first portion of the process listed in this section, then the numbers should be roman numerals for the front matter and arabic numerals for the remaining chapter and section headings.

How to create and format back matter

In addition to front matter, large documents also have back matter, such as appendices, an index, or a glossary. You can create and use an **Appendix** style for your appendices. The STREAM Tools template

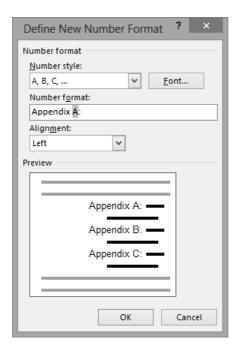
file BasicThesisOrBookTemplate.docx already contains appendices preformatted in this manner, but you can use the process described here to create new back matter in your document.

Create appendices

To create an appendix in your document, there are two stages.

Stage 1: Create the appendix

- **1.** Type a title for the appendix in a new line where you want it to appear.
- 2. Change the style of the line to **Heading 1** (Ctrl+Alt+1).
- 3. Click the button in the lower-left corner of the **Style** gallery (, and click **Create a Style**.
- **4.** Name your style (**Appendix**, for example), and click **Modify**.
- 5. Under Style for following paragraph, choose Normal.
- **6.** Click Format ⇒ Numbering ⇒ Define New Number Format.
- 7. Under **Number Style**, select capital letters, and under **Number format**, type **Appendix A**, where the A is the field value already in place.



You can use the Define New Number Format dialog box to create a numbering scheme for any style.

- 8. Click **OK** in all three dialog boxes.
- **9.** Now, reformat the appendix heading as necessary, including correcting the indentation and placing tab stops.
- **10.** With the cursor on the appendix heading, right-click the **Appendix** style in the **Style** gallery, and click **Update Appendix to Match Selection**.

Stage 2: Add the appendix to the table of contents

If you followed the previous instructions, your appendix should appear in the table of contents automatically, at the same level as the **Heading 1** style. Simply press **Ctrl+A** \rightarrow **F9** to update the fields, including the table of contents, and select **Update entire table** in the dialog box that appears.

If you did not base the **Appendix** style on **Heading 1**, you will need to manually add it to the table of contents hierarchy. In addition, you might want to add other styles to your table of contents. To do so, place the cursor on your table of contents, and follow these steps:

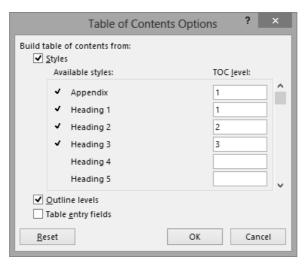


- 1. Click References ⇒ Table of Contents.
- 2. Click Custom Table of Contents ().



Here you can adjust several basic elements of your table of contents, including how many levels to show and what type of tab leader to use.

- 3. Click the Options button.
- 4. In the TOC level box for Appendix, type 1. If you would like to add another style to your table of contents, find it in the list, and enter a number for its TOC level setting.



By adjusting the TOC Level setting for each style, you can select which styles to include. Their properties will be automatically adjusted to suit the table of contents hierarchy.

5. Click **OK** in all dialog boxes.

Create indexes

An index at the end of a book allows the reader to find the pages that mention specific words. Indexes are most frequently encountered in textbooks or manuals. Word Help provides a comprehensive description of the process of creating an index, should you need it.

However, we want to describe briefly how to create an index, because the process is relatively straightforward. First, it is best to save creating an index until near the very end of your writing project, because this step will add inline code to your document on every word that is indexed, and this code will make the text difficult to read. However, you can hide these marks by clicking the **Home** tab and then selecting **Show/Hide Paragraph Markings** (¶).

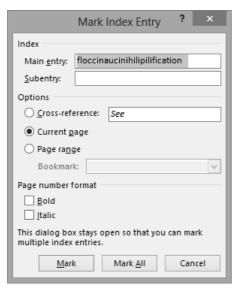
When you are ready to create an index, you need to mark the entries for it and then build the index at the end of the manuscript, much like you would build a table of contents at the front.

To mark entries for the index

Highlight the word you want to include in your index.



- 2. On the **References** tab, in the **Index** group, click **Mark Entry**.
- **3.** In the dialog box that appears, choose the options that correspond to your needs.

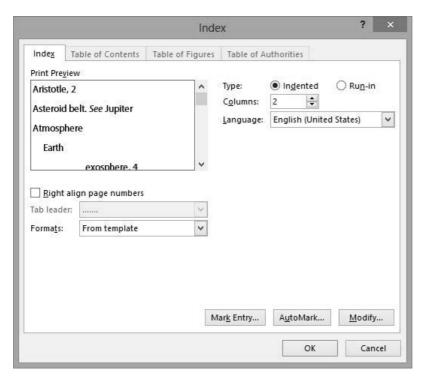


You can customize the index entry to include a subentry, and use Mark All to mark every instance of the selected text.

To insert the index

- **1.** Place the cursor on the page and line where you would like the index to appear.
- 2. On the References tab, in the Index group, click Insert Index ().

Just like with any other automatically generated list, the index will be updated when you press $CtrI+A \rightarrow F9$.



In the Index dialog box, you can choose the indentation, columns, and tab leaders for your index.

Use bookmarks for limited tables of contents

In some cases, you might want to include only a portion of text in your table of contents. For example, you might want to include a table of contents for each section of your document. You can achieve this with the table of contents feature available in Word 2013, by using bookmarks to include only a single chapter.

To create a section-based table of contents

Select the section of text that you want to use.



2. On the Insert tab, in the Links group, click Bookmark.

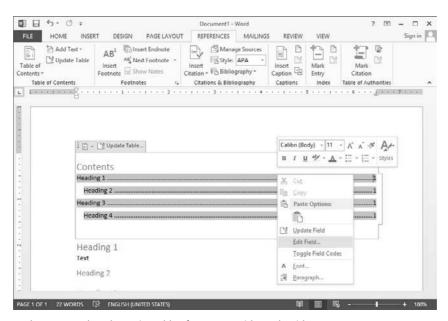
3. Type a name for your section, click **Add**, and then click **OK**.



It is recommended that you choose descriptive names that will sort easily.



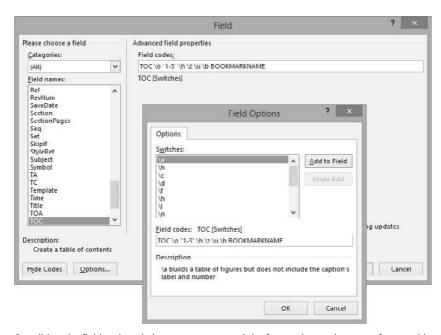
- Insert a table of contents where you would like it to appear (References ⇒ Table of Contents).
- 5. Select the entire table of contents (but not the title), right-click it, and then click Edit Field.



Make sure to select the entire table of contents, without the title.

6. If **TOC** is not selected, close the window and make sure you have selected the entire table of contents (including the space at the end).

- Click the Field Codes button in the lower-left corner.
- 8. Click the **Options** button.
- In the Field Options dialog box that appears, select \b from the Switches list, and then click the Add to Field button.
- **10.** In the **Field codes** box, type the name of the bookmark you created (replacing **BOOKMARKNAME**, in the example).



By editing the field code switches, you can control the formatting and source of your table of contents.

11. Click **OK** in all dialog boxes.

Common formatting mistakes in headings

The most common typesetting mistakes pertaining to headings include:

- Manually numbering headings instead of creating automated templates Although this approach works for short documents, it defeats the idea of automatic generation of the table of contents and automatic heading numbering. It also eliminates the ability to cross-reference the heading in text.
- Excessive switching of fonts In most technical and scientific manuscripts, the font of the headings is the same as the font of the main text. Mixing serif and sans serif fonts in the same manuscript is generally not a good idea. Of course, if your publisher expects mixed fonts, follow the instructions.

Common stylistic mistakes for headings

The following example contains several common stylistic mistakes. An analysis of these mistakes is described after the example. This example contains intentional errors.



Design

1.1. Mechanical Design
1.2. Electrical design
1.2.1. Wiring
Software Design

Fabrication Of Parts

- **Problem 1: orphan headings** The term *orphan heading* means that the list of headings on a certain heading level has only one entry. For example, heading 1.2.1 in the example is an orphan. If there is no 1.2.2, then 1.2.1 should not exist. It is acceptable to have orphan headings during the writing stage, but it is important to make sure that no orphan headings exist in the final version of the manuscript.
- **Problem 2: inconsistent or incorrect capitalization** In the previous example, both words are capitalized in heading 1.1, but only the first word is capitalized in heading 1.2. Both capitalization schemes are frequently used, but writers should choose one and maintain consistency throughout the document by following a *style guide*.

In heading 2 of the example, the word *Of* is capitalized. The American English standard is to lowercase prepositions and conjunctions (such as *and*, *of*, and *for*) and articles (such as *a* and *the*).

Tips and tricks

Collapse headings

If you use heading styles, you can hide the content below a heading by clicking the triangle next to the heading. This feature can be a quick and easy alternative to Outline view.

⁴ Heading 1

This is a test sentence.

▶ Heading 1.1

Click the triangle next to a heading to collapse the heading and hide the text after it.

Maintain the table of contents until the last moment

Long journal papers and research proposals usually do not require tables of contents. However, your team might want to keep a table of contents in the manuscript until submission time. Doing so can help develop the structure of the manuscript as it evolves by presenting a navigation view of the document. You can delete the table of contents right before submission.

Alternatively, of course, you can use the Navigation pane, in addition to the Outline view, which are both easily accessible from the **View** tab of the ribbon.



The Outline view and the Navigation pane can help you (and your team) manage long and complex documents.

Alter the automatic spacing before and after headings

Normally, the heading styles include a certain amount of top and bottom padding. If the defaults do not suit your template, you should adjust the style settings to create the spacing you want. (You should avoid creating extra spacing by inserting blank lines.) By relying exclusively on your styles' before and after spacing, you can create a consistent and professional template that will maintain its look throughout its usage.

To adjust the spacing for the heading style

- Click the Home tab.
- Right-click an entry in the Style gallery corresponding to the heading of interest.
- Click Modify ⇒ Format ⇒ Paragraph, and then change spacing as desired in the Spacing selection boxes.
- **4.** Click **OK** in the open dialog boxes to return to editing mode.



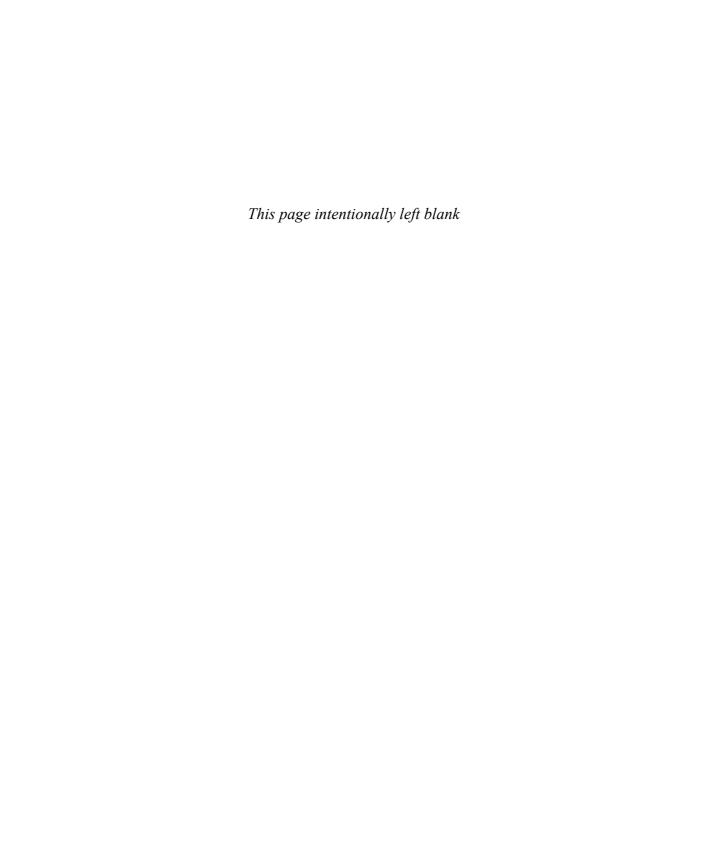
Note Occasionally, formatting is not successful when you update your document. If this happens, try turning on the **Formatting** view in Word by clicking the paragraph symbol (1). This view reveals hidden formatting commands in Word. From this view, confirm that you have selected all appropriate formatting elements, including those just before and just after the element you copied.

Recap

After completing this chapter, you should be quite proficient in several important aspects of document design. As you have seen, headings are tied to the structure and organization of documents, and using them properly is the key to making sure your front and back matter are assembled correctly.

By now, you should be able to

- Create headings
- Cross-reference headings
- Modify heading styles
- Use multilevel lists to organize your headings
- Enhance your headings with borders and shading
- Create page numbers and adjust their format
- Create tables of contents and limited, section-based tables of contents
- Create back matter, including appendices and indexes



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