



LibreOffice
Community



Writer Guide 7.3

Chapter 15, Tables of Contents, Indexes, Bibliographies

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Note

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Using LibreOffice on macOS

Some keystrokes and menu items are different on macOS from those used in Windows and Linux. The table below gives some common substitutions for the instructions in this document. For a detailed list, see the application Help.

<i>Windows or Linux</i>	<i>macOS equivalent</i>	<i>Effect</i>
Tools > Options menu selection	LibreOffice > Preferences	Access setup options
Right-click	<i>Control</i> +click or right-click depending on computer setup	Open a context menu
<i>Ctrl</i> (Control)	⌘ (Command)	Used with other keys
<i>Alt</i>	⌥ (Option) or <i>Alt</i> , depending on keyboard	Used with other keys
<i>F11</i>	⌘+T	Open Styles deck in Sidebar

Contents

Copyright	2
Contributors.....	2
Feedback.....	2
Publication date and software version.....	2
Using LibreOffice on macOS.....	2
Introduction	5
Tables of contents	5
Creating a table of contents quickly.....	6
Customizing a table of contents.....	6
Type tab.....	7
Entries tab.....	9
Styles tab.....	11
Columns tab.....	11
Background tab.....	11
Editing a table of contents.....	13
Updating a table of contents.....	13
Deleting a table of contents.....	13
Alphabetic indexes	13
Adding index entries.....	14
Example of using an index key.....	15
Creating a concordance.....	16
Creating an alphabetic index quickly.....	16
Customizing an index.....	17
Type tab.....	17
Entries tab.....	18
Styles and Background tabs.....	19
Columns tab.....	19
Maintaining an index.....	20
Viewing and editing existing index entries.....	21
Other types of index	21
Example: Creating an index of figures.....	22
Bibliographies	23
Creating a bibliographic database.....	23
Changing the data source.....	24
Filtering records.....	25
Adding entries to the database.....	25
Maintaining entries in the database.....	25
Advanced: Modifying the bibliographic database.....	25
Column details.....	26
Field details.....	26
Adding references (citations) into a document.....	28
Entering references from a database.....	28
Entering references from documents.....	28
Editing a reference.....	29
Creating the bibliography.....	29

Type tab.....	29
Entries tab.....	30
Styles, Columns and Background tabs.....	31
Modifying the paragraph style for the bibliography.....	31
Updating, editing, and deleting an existing bibliography.....	33
External bibliography tool.....	33

Introduction

This chapter describes how to create and maintain a table of contents, an index, and a bibliography for a text document using LibreOffice Writer. Other types of index are mentioned briefly. To understand the instructions, you need a basic familiarity with Writer and styles (see Chapter 8, Introduction to Styles, and Chapter 9, Working with Styles).

Tables of contents

Writer's table of contents (TOC) feature lets you build an automated TOC from the headings in a document. Whenever changes are made to the text of a heading in the body of the document or the page on which the heading appears, those changes automatically appear in the table of contents when it is updated.

Before you start, make sure that the headings are styled consistently. For example, you can use the Heading 1 style for chapter titles and the Heading 2 and Heading 3 styles for chapter subheadings.

This section shows you how to:

- Create a table of contents quickly, using the defaults.
- Customize a table of contents.

Note

You can use any style you want for the different levels to appear in the TOC; the examples in this chapter uses the default Heading styles. You can specify other paragraph styles to appear in the TOC, as described in “Create From” on page 8.

Tips

If some of your headings do not show up in the table of contents, check that the headings have been tagged with the correct paragraph style. If a whole level of headings does not show up, check the settings in **Tools > Chapter Numbering**. See “Defining a hierarchy of headings” in Chapter 8, Introduction to Styles.

If you add or delete text (so that headings move to different pages) or you add, delete, or change headings, you need to update the table of contents. To do this: Right-click anywhere in the TOC and select **Update Index** in the context menu.

If you cannot place the cursor in the TOC, choose **Tools > Options > LibreOffice Writer > Formatting Aids**, and then select **Enable cursor** in the *Protected Areas* section.

The TOC appears with a gray background. This background is there to remind you that the TOC is a field; the text you see is generated automatically. The background is not printed and does not appear if the document is converted to a PDF. To turn off this gray background, go to **Tools > Options > LibreOffice > Application Colors**, then scroll down to the *Text Document* section and deselect *Index and table shadings*.

This change may leave a gray background showing behind the dots between the headings and the page numbers, because the dots are part of a tab. To turn that shading off, go to **Tools > Options > LibreOffice Writer > Formatting Aids** and deselect the option for Tabs in the *Display formatting* section.

Creating a table of contents quickly

Most of the time you will find the default table of contents to be all you need, although the formatting may be inelegant. To insert a default TOC:

- 1) Create a document, using the following paragraph styles for different heading levels (such as chapter and section headings): Heading 1, Heading 2, and Heading 3. These are what will appear in your TOC. Writer can evaluate up to ten levels of headings.
- 2) Click in the document where you want the TOC to appear.
- 3) Choose **Insert > Table of Contents and Index > Table of Contents, Index or Bibliography**.
- 4) Click **OK**. The result will be a typical table of contents with the entries generated as hyperlinks.

Caution

If you have **Edit > Track Changes > Show** enabled when editing a document and you update the TOC, then errors may occur, as the TOC will still include any deleted headings and deleted text may cause page numbering in the TOC to be wrong. To avoid this problem, be sure this option is deselected before updating a TOC.

Customizing a table of contents

Almost every aspect of the table of contents can be customized to suit the style and requirements of your document.

Start by clicking in the document where you want the table of contents to appear and choose **Insert > Table of Contents and Index > Table of Contents, Index or Bibliography** to open the Table of Contents, Index or Bibliography dialog shown in Figure 1.

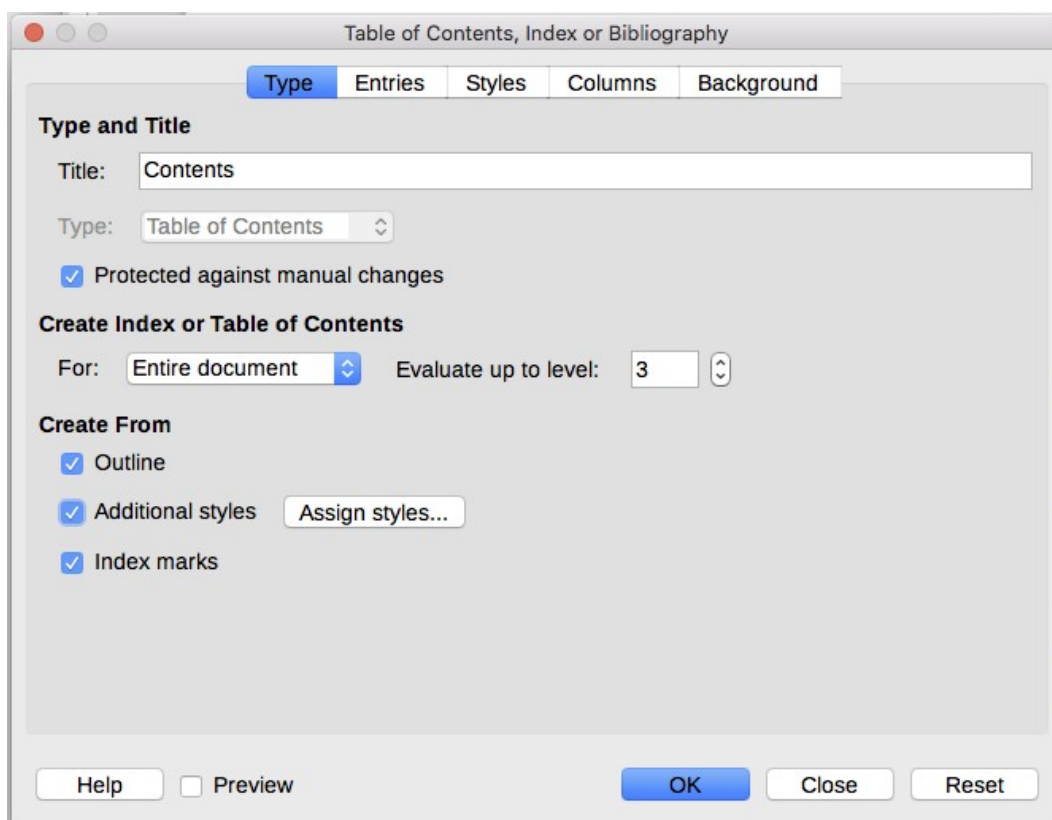


Figure 1: Type tab of Table of Contents, Index or Bibliography dialog

You can also access this dialog at any time by right-clicking anywhere in an existing table of contents and choosing **Edit Index** in the context menu.

The Table of Contents, Index or Bibliography dialog has five tabs. Each tab covers a different aspect of the TOC structure and appearance:

- Use the *Type* tab to set the attributes of the TOC.
- Use the *Entries* and *Styles* tabs to format the entries in the TOC.
- Use the *Columns* tab to put the TOC into more than one column.
- Use the *Background* tab to add color or an image to the background of the TOC.

You can display a preview box, located on the right-hand side of the dialog, to show as you work how the TOC will look: select the **Preview** option in the lower left of the dialog. The illustrations in this chapter show the dialog as it appears with the preview box hidden.

Note

The preview box shows the appearance from settings made on the *Type*, *Entries*, and *Styles* tabs. It does not show changes made on the *Columns* and *Background* tabs.

After making all your changes, click **OK** to apply them. To revert to the default settings for the *Columns* and *Background* tabs, select each tab in turn and click the **Reset** button. The settings on the *Type*, *Entries* and *Styles* tabs must be reset manually; the **Reset** button has no effect.

Type tab

Use the *Type* tab (Figure 1) to set the attributes of the TOC.

Title

To give the table of contents a different title, type it in the Title field. To delete the title, clear the Title field.

Type

Select a type in the drop-down list. For a TOC, be sure the Type is set to Table of Contents. See “Alphabetic indexes” on page 13 and “Other types of index” on page 21 for more about creating other types of indexes.

Caution

You can change the type of index only when you first create it. Once you define an index type (for example, a table of contents) you cannot change it.

Protected against manual changes

By default, to prevent the TOC from being changed accidentally, this option is selected; the TOC can only be changed by using the context menu or the dialog. If the option is not selected, the TOC can be changed directly, just like other text. However, any manual changes will be lost when you update the TOC, so they should be avoided.

Create Index or Table of Contents

In the **For** drop-down list in this area, you can select whether the TOC will cover all the headings of the document (**Entire document**) or just the headings of the chapter where it is inserted. Writer identifies a “chapter” as all the headings between two first level outline headings (normally Heading 1).

Evaluate up to level

Writer can use up to 10 levels of headings when it builds the table of contents (or the number of levels used in the document, whichever is smaller). To specify the number of levels included, enter the required number in the **Evaluate up to level** box. For example, the TOC in this book includes only the first three heading levels.

Create From

The third section of the Type tab determines what Writer should use to create the TOC. The choices (not mutually exclusive) are Outline, Additional styles, and Index marks.

Outline

By default Writer uses the outline levels; that is, paragraphs formatted with the paragraph styles associated with outline levels in **Tools > Chapter Numbering**.

You can change the paragraph styles included in the outline, and you can include other paragraph styles in the outline by assigning an outline level to those styles. Both of these methods are described in “Using paragraph styles to define a hierarchy of headings” in Chapter 8, Introduction to Styles.

Additional styles

You can add more paragraph styles to the TOC. This can be useful, for example, when you want to include the heading of an annex (appendix) in the TOC. If the Outline option is also selected, the additional styles will be included in the table of contents together with the ones defined in the outline numbering. Select this option and click the **Assign styles** button to open the Assign Styles dialog (Figure 2).

Index marks

This selection adds any index entries that you have inserted into the document by using **Insert > Table of Contents and Index > Index Entry**. Normally you would not use this selection for a table of contents. However, if you select **Table of Contents** in the *Index* drop-down list at the top of the Insert Index Entry dialog (Figure 8), Writer will distinguish between them and any index entries intended for inclusion in an alphabetic or other index.

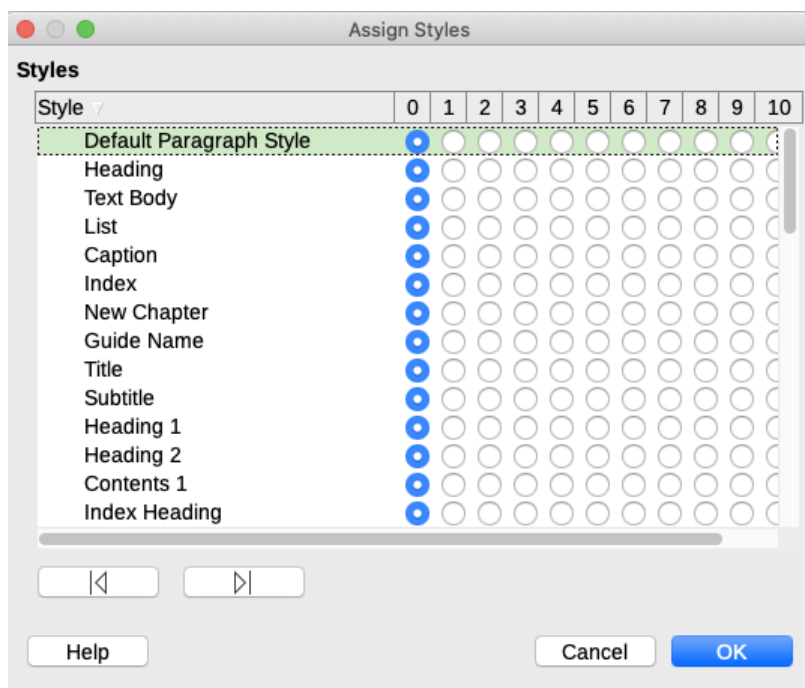


Figure 2: Assigning additional styles to TOC levels

Entries tab

Use the *Entries* tab (Figure 3) to define and format the entries in the TOC. Each outline level can be styled independently from the other levels by adding and deleting elements.

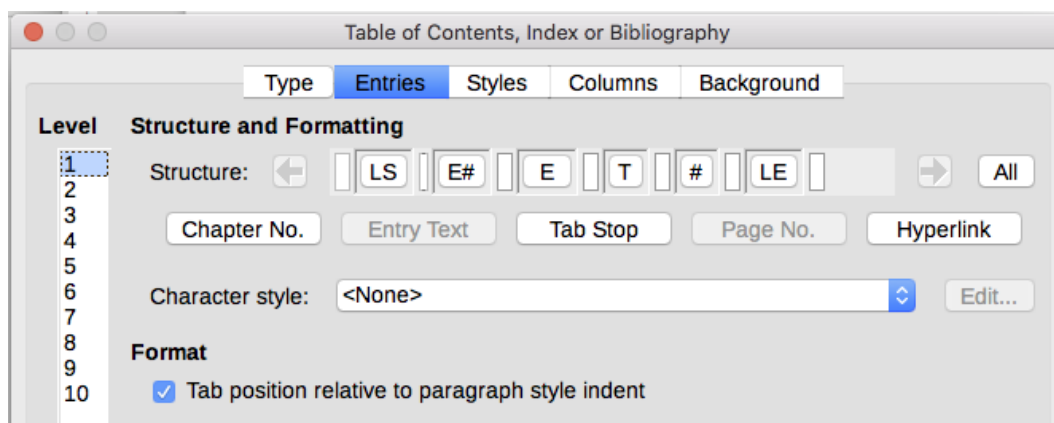


Figure 3: Entries tab of Table of Contents, Index or Bibliography dialog

Click a number in the *Level* column to select the outline level whose elements you want to format. The *Structure* line contains the elements included in the entries for that level. Elements that can be added to the structure line are displayed just below the structure line, and are grayed out if they cannot be included:

- The **LS** icon represents the start of a hyperlink.
- The **E#** icon represents the “chapter number”, which means the heading number value assigned to a heading style in **Tools > Chapter Numbering**, not just for chapters but also for other levels of headings. See “Setting up heading numbering” in Chapter 8, Introduction to Styles.
- The **E** icon represents the chapter (or sub-chapter) text: That is the text formatted with the paragraph style used for each level.
- The **T** icon represents a tab stop.
- The **#** icon represents the page number.
- The **LE** icon represents the end of a hyperlink.
- Each white field on the Structure line represents a blank space where you can add custom text or another element.

Caution

In the Chapter Numbering dialog (covered in Chapter 8), if you have included any text in the **Before** or *After* boxes in the *Separator* section for any given level, then that text will be part of the E# field for that level. Take care when building the structure line not to create any unwanted effects in the appearance of the TOC.

Adding elements

To add an element to the Structure line:

- 1) Click in the white field where you want to insert the element.
- 2) Click one of the active buttons just below the Structure line. For example, to add a tab, click the **Tab Stop** button. An icon representing the new element appears on the Structure line.
- 3) To add custom text, such as the word *Chapter*, type the text in the white field. Don't forget a trailing space.

Changing elements

To change an element in the Structure line, click the icon representing that element and then click a non-grayed out element in the row of buttons just below the Structure line. For example, to change a chapter number to a tab stop, click the **E#** icon on the Structure line (it shows then as being pressed) and then click the **Tab Stop** button in the row of available elements. To cancel before swapping an element, click in one of the white spaces.

Applying changes to all outline levels

If you wish to apply the displayed structure and formatting to all outline levels, click the **All** button on the right.

Deleting elements

To delete an element from the Structure line, click the button representing that element and then press the Delete key on your keyboard. For example, to delete the default hyperlink setting, click the LS icon and then press the *Delete* key. Repeat this for the LE icon.

Applying character styles

You might want an element to be a bit different from the rest of the line. For example, you might want the page number to be bold. To apply a character style to an element:

- 1) Be sure you have previously defined a suitable character style.
- 2) On the Structure line, click the button representing the element to which you want to apply a style.
- 3) In the *Character Style* drop-down list, select the desired style.

To view or edit the attributes of a character style, select the style in the *Character Style* drop-down list and then click the **Edit** button.

Tip

The default character style for hyperlinks (such as those inserted by **Insert > Hyperlink**) is Internet Link, which by default is underlined and shown in blue.

The default hyperlinks of TOC entries are set to the Index Link character style, which may be different in appearance from the Internet Link style. If you want them to appear the same as internet links, you can select the **LS** icon on the Structure line and change the character style selection for TOC entries to Internet Link.

You can also change the attributes for Index Link to what you want.

Tab parameters

Click on the **Tab stop** icon on the Structure line to bring up these controls:

- **Fill character:** select the tab character you wish to use; the first choice is none (blank).
- **Tab stop position:** specify the distance to leave between the left page margin and the tab stop. Optionally, select **Align right** for the tab stop; this selection inactivates the distance.

Tab position relative to paragraph style indent

When this option is selected, entries are indented according to the settings of their individual formats. Where a paragraph style specifies an indent on the left, tab stops are relative to this indent. If this option is not selected, tab stops are relative to the left margin position.

Styles tab

Use the Styles tab (Figure 4) to change which paragraph style is assigned to display the text of each level in the table of contents. In most cases, the best strategy is to keep the assigned styles but change their settings as needed to make the TOC appear the way you want.

To apply a custom paragraph style to an outline level:

- 1) In the *Levels* list, select the outline level.
- 2) In the *Paragraph Styles* list, click on the desired paragraph style.
- 3) Click the < button to apply the selected paragraph style to the selected outline level.

The style assigned to each level appears in square brackets in the *Levels* list.

To remove paragraph styling from an outline level, select the outline level in the *Levels* list, and then click the **Default** button.

To view or edit the attributes of a paragraph style, click the style in the *Paragraph Styles* list, and then click the **Edit** button.

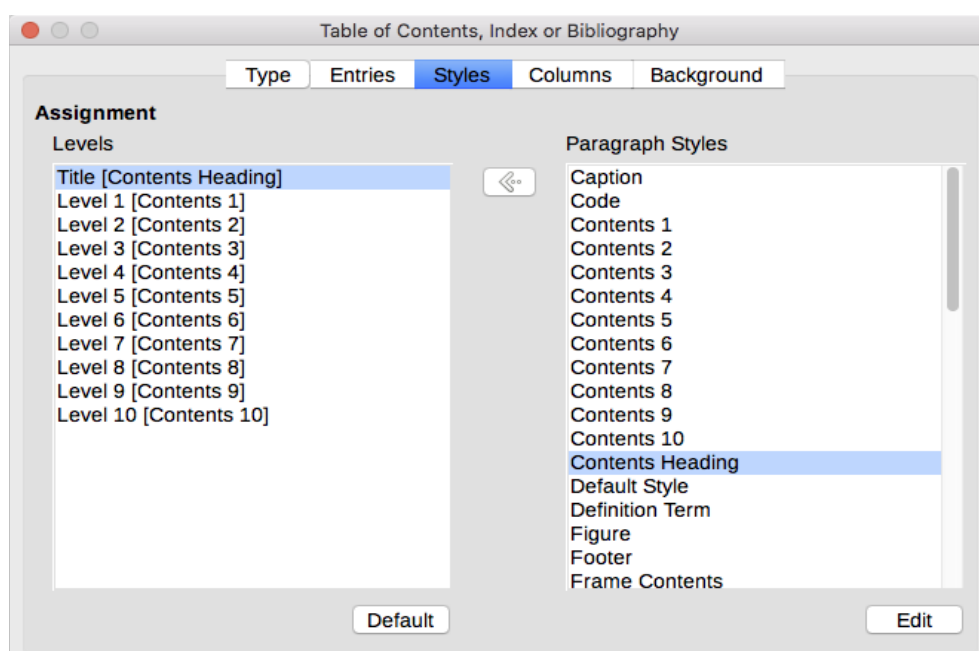


Figure 4: Styles tab of the Table of Contents, Index or Bibliography dialog

Columns tab

Use the *Columns* tab to change the number of columns for the TOC. Multiple columns are more likely to be used in an index than in a TOC, so this tab is described in the section on indexes.

See Figure 11.

Background tab

Use the *Background* tab (Figure 5) to add color or a bitmap (image) to the background of the TOC.

Adding color

To add color to the background of the table of contents, select the **Color** button from the row of buttons near the top of the dialog, then select a color and click **OK**.

See “Adding custom colors” in Chapter 20, Customizing Writer, for more about defining and using background colors.

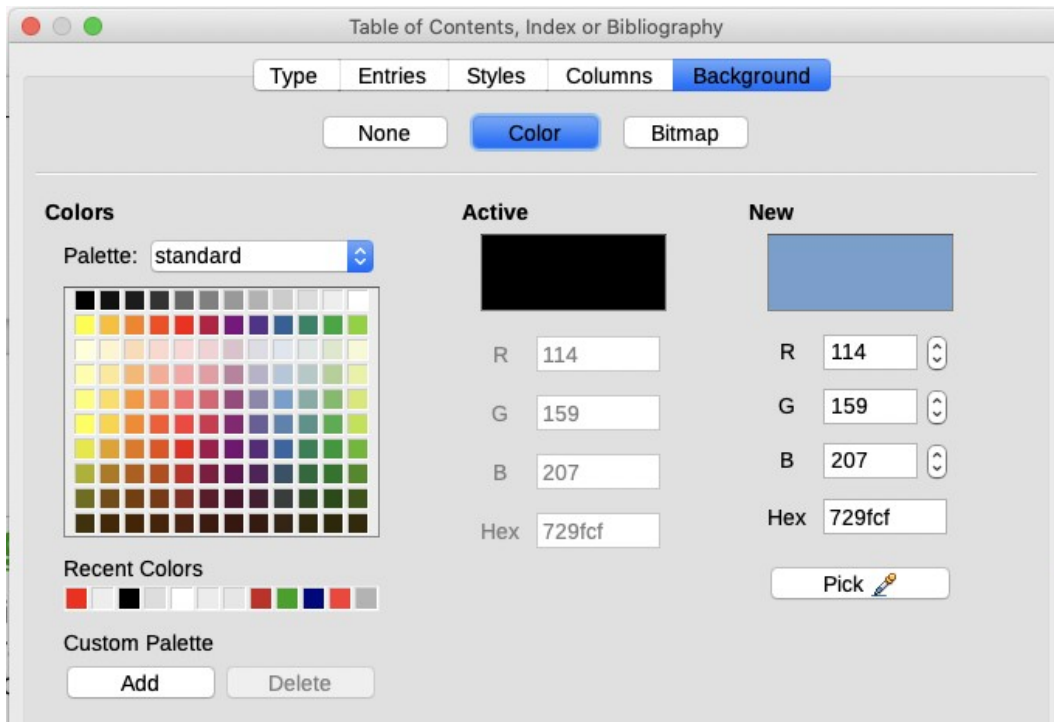


Figure 5: Background tab, showing Color choices

Adding a bitmap (image)

To add an image to the background of the table of contents:

- 1) From the row of buttons near the top of the dialog, select **Bitmap**. The *Background* tab now displays the bitmap options, as shown in Figure 6.

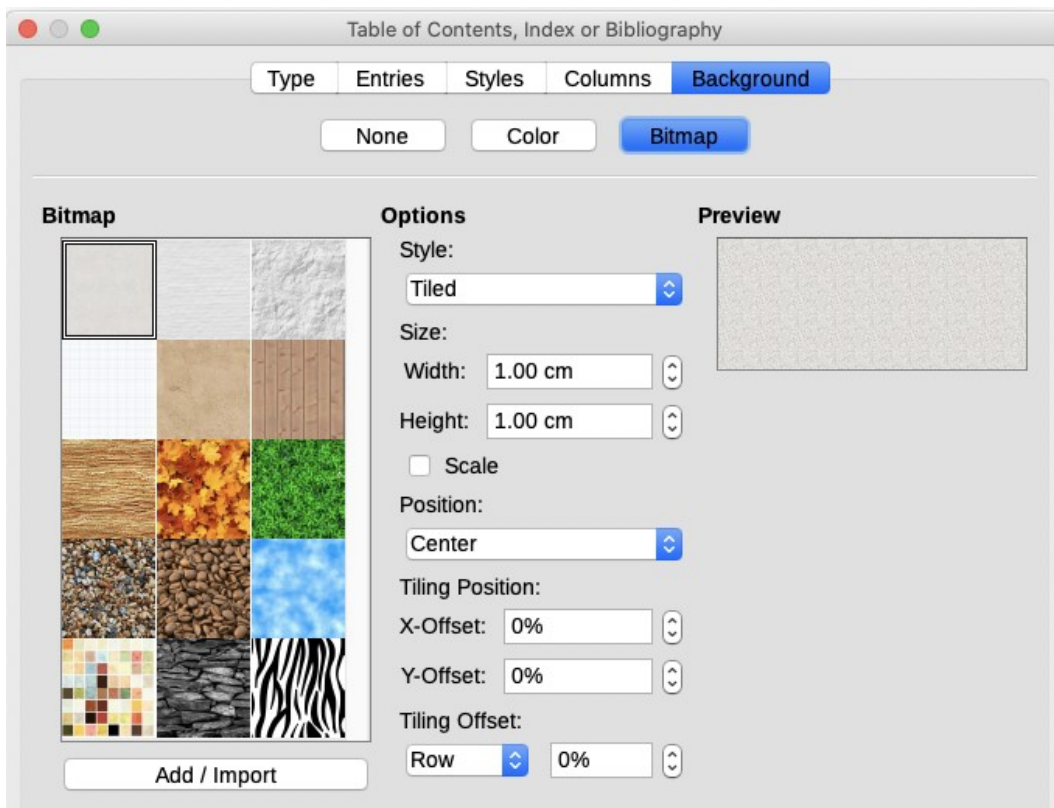


Figure 6: Image options on the Background tab

- 2) Select from the given bitmaps or click the **Add/Import** button to select an image from your computer's file system.
- 3) Under *Options*, select the type of placement for the image.
 - **Style** – select custom position/size, tiled, or stretched.
 - **Size** – select the required Image aspect ratio or the Scale option.
 - **Position** – select where the image is to be displayed.
- 4) To apply the image, click **OK**.

Deleting a color or an image

To delete a color or an image from the table background, select **None** at the top of the dialog.

Editing a table of contents

To edit an existing TOC, right-click anywhere in the TOC and choose **Edit Index** in the context menu. You can also open the Navigator in the Sidebar, click the expansion symbol (+ sign or triangle) next to Indexes, then double-click on Table of Contents.

The Table of Contents, Index or Bibliography dialog (Figure 1 on page 6) opens. You can edit and save the TOC as described in the previous section.

Updating a table of contents

Writer does not update the TOC automatically, so after any changes to the headings, you need to update it manually. Right-click anywhere in the TOC; in the context menu, choose **Update Index**.

You can also update the index from the Navigator: expand Indexes, right-click on the name of table of contents you want to update, and choose **Index > Update**.

Deleting a table of contents

To delete the TOC from a document, right-click anywhere in the TOC and choose **Delete Index** in the context menu. You can also delete the index from the Navigator by choosing **Index > Delete** in the menu shown in Figure 8. Writer will not prompt you to confirm the deletion.

Alphabetic indexes

An alphabetical index (referred to as an index) is a list of keywords or phrases used throughout a document that, if listed in order with page numbers, may help the reader find information quickly. Generally an index is found in the back of a book or document.

This section describes how to:

- Add index entries manually.
- Use a concordance file.
- Create an alphabetic index quickly.
- Customize the display of index entries.
- Customize the appearance of the index.
- View and edit existing index entries.

Adding index entries

Before you can create an index, you must create some index entries, either manually or by using a concordance (see page 16). To create index entries manually:

- 1) To add a word to the index, place the cursor anywhere in that word. To add multiple words as one entry, select the entire phrase.
- 2) Choose **Insert > Table of Contents and Index > Index Entry** to display a dialog similar to that shown in Figure 8. When the dialog opens, the selected text appears in the **Entry** text input box. You can accept the word or phrase shown, or change it to whatever you want.
- 3) Click **Insert** to create the entry.

Tip

You can also open the Insert Index Entry dialog by clicking the **Insert Index Entry** icon at the right-hand end of the Insert toolbar, as shown in Figure 7.

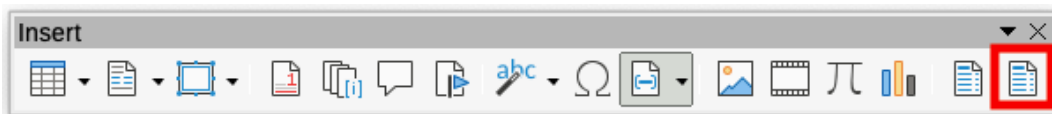


Figure 7: Insert Index Entry icon on Insert toolbar

Tip

A cursor placed immediately before the first character of a word, or immediately after the last character of a word if it is followed by a space, counts as being in that word.

You can create multiple entries without closing the dialog. For each one:

- 1) Click at the location in the document that you want to index.
- 2) Click again on the dialog.
- 3) Change the entry if needed, and click **Insert**.
- 4) Repeat steps 1–3 until you have finished with the entries, then click **Close**.

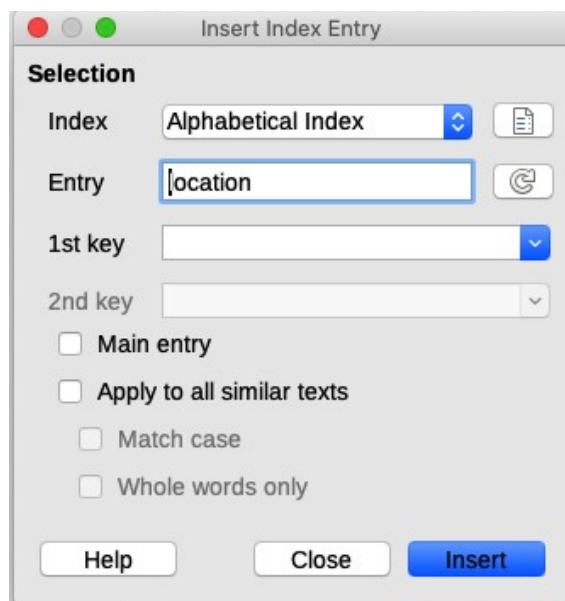


Figure 8: Inserting an index entry

Below is a brief explanation of the fields in the Insert Index Entry dialog and how to use them.

Index

The type of index this entry is for. The default is Alphabetical Index, but you can use this field to create extra entries for a table of contents or user-defined indexes or lists of almost anything. For example, you might want an index containing only the scientific names of species mentioned in the text, and a separate index containing only the common names of species. See “Other types of index” on page 21.

Entry

The word or phrase to be added to the selected index. This word or phrase does not need to be in the document itself; you can add synonyms and other terms that you want to appear in the index.

1st key

An index key is an entry that has no associated page number and has several subentries that do have page numbers. Using keys is a useful way of grouping related topics. (See “Example of using an index key” on page 15.)

2nd key

You can have up to a three-level index, where some of the first-level keys have level-2 entries that are also keys (without page numbers). This degree of index complexity is not often necessary.

Main entry

When the same term is indexed on several pages, often one of those pages has more important or detailed information on that topic, so you want it to be the main entry. To make the page number for the main, or most important, entry stand out, select this option and then define the character style for the page number of a main index entry to be bold, for example.

Apply to all similar texts

Select this option to have Writer automatically identify and mark any other word or phrase that matches the current selection. The Match case and Whole words only options become available if this option is selected. Use this option with care, as it may result in many unwanted page numbers (for minor uses of a word) being listed in the index.

Example of using an index key

An index key is a primary entry under which subentries are grouped. For example, you might want to create a grouping similar to this:

```
LibreOffice
  Calc, 10
  Impress, 15
  Writer, 5
```

In this example, *LibreOffice* is the 1st key. The subentries (with the page numbers showing) are the indexed entries. To insert an index entry for the topic *Writer*, on the Insert Index Entry dialog (Figure 8 on page 14), type *Writer* in the *Entry* box and *LibreOffice* in the **1st key** box.



Note

If field shading is active (**Tools > Options > LibreOffice > Application Colors > Text Document > Field shadings**), when a selected word or phrase has been added to the index, it is shown in the text with a gray background. If the text of an index entry has been changed from the text of the word selected, the index entry is marked by a small gray rectangle at the start or end of that word.

Creating a concordance

A concordance is a plain text file that lists words to add to the index. It has one word or phrase defined on each line. Each line has a strict structure, consisting of seven fields, separated by semicolons:

```
Search_term;Alternative_entry;1st_key;2nd_key;Match_case;word_only
```

No space is entered between the semicolon and a field's content. A key is a higher level heading that a search term is placed beneath.

If you choose not to have an alternative entry, a first key or a second key, leave those fields blank, so that one semi-colon immediately follows another.

The last two fields are structured somewhat differently. If you want only entries that have the same upper or lower case letters as your entries, enter 1 in the second to last field. Similarly, entering 1 in the last field sets the index to only include instances where the entry is a whole word, and not part of a larger one. You can also leave the last two fields blank, as you can with any of the others.

For example, entering:

```
Macaw;Ara;Parrots;;0;0
```

Would produce an entry for *macaw* with

- A listing under *macaw*.
- An alternate listing under *ara* (the scientific name).
- A listing of *Parrots, Macaw*.
- No second key (notice the two semi-colons).
- Inclusion of instances that start with a lower or upper case letter (both "macaw" and "Macaw").
- Inclusion of instances in which the term is a whole word or part of a longer word.

Whether creating a concordance is faster than adding entries manually is debatable, but a concordance is certainly more systematic. The disadvantage of a concordance is that it can produce an index that includes instances of common words that are irrelevant for your purposes. In many cases, a useful index may require a combination of manual entries and a concordance.

Creating an alphabetic index quickly

Now that you have some index entries, you can create the index.

Although indexes can be customized extensively in Writer, most of the time you need to make only a few choices.

To create an index quickly:

- 1) Click in the document where you want to add the index and click **Insert > Table of Contents and Index > Table of Contents, Index or Bibliography** to open the Table of Contents, Index or Bibliography dialog.
- 2) In the *Type* box on the *Type* tab (Figure 9), select **Alphabetical Index**.
- 3) In the *Options* section, you may want to deselect **Case sensitive** (so that capitalized and lower-case words are treated as the same word) and **Combine identical entries with p or pp**.
- 4) If you are using a concordance, select **Concordance file** in the *Options* section, then click the **File** button and select the concordance file you created.
- 5) Click **OK**. The result will be a typical index.

Customizing an index

To customize an existing index, right-click anywhere in the index and choose **Edit Index** in the context menu.

The Table of Contents, Index or Bibliography dialog (Figure 9) has five tabs. All of them can be used to customize the index.

- Use the *Type* tab to set the attributes of the index.
- Use the *Entries* and *Styles* tabs to format the entries in the index.
- Use the *Columns* tab to put the index into more than one column.
- Use the *Background* tab to add color or an image to the background of the index.

After making your changes, click **OK** to save the index so it appears in your document.

Type tab

Use the *Type* tab (Figure 9) to set the basic attributes of the index.

To give the index a different title, edit the Title field. To delete the title, clear the Title field.

Be sure the type of index is set to Alphabetical Index.

By default, to prevent the index from being changed accidentally, the option **Protected against manual changes** is selected; the index can only be changed by using the context menu or the dialog. If the option is not selected, the index can be changed directly, just like other text. However, any manual changes to an index will be lost when you update it, so they should be avoided.

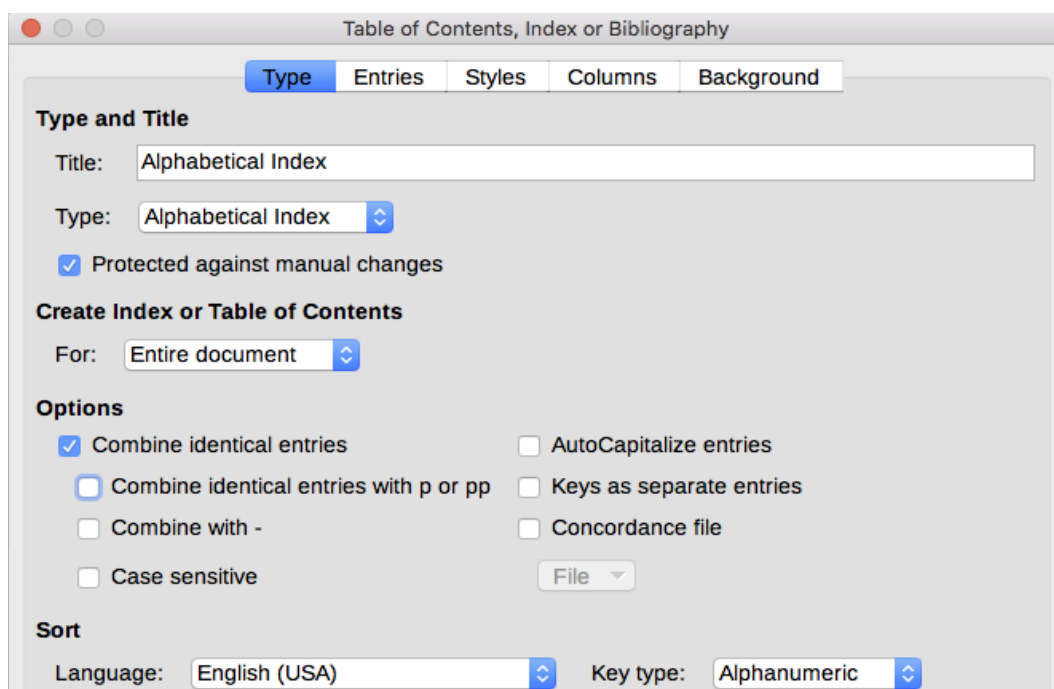


Figure 9: Type tab for an alphabetic index

In the drop-down list in the *Create Index or Table of Contents* section, select **Entire document**. You can also choose to create an index for just the current chapter.

Other options determine how the index handles entries.

Combine identical entries

Defines how identical entries are dealt with. Normally each page number of an indexed word or phrase will be shown in the index; however, these can be combined using the **Combine identical entries with p or pp**. If you want a page range displayed, select

Combine with – (which will produce something similar to 23–31). If you want different entries based on what letters are capitalized, select **Case sensitive**.

AutoCapitalize entries

Automatically capitalizes the first letter of each entry regardless of how they show within the document itself.

Keys as separate entries

For the keys to have their own page numbers, select this option.

Concordance file

Choose the file to be used, if any. See page 16 for more information.

Sort

Defines how the entries are sorted when displayed. The only option is alphanumeric, but you can define which language alphabet will be used.

Entries tab

Use the *Entries* tab to set exactly how and what will be displayed for each of the entries. The tab is similar to Figure 10.

✓ Note

Hyperlinking from the index to the location of entries in the text is not available.

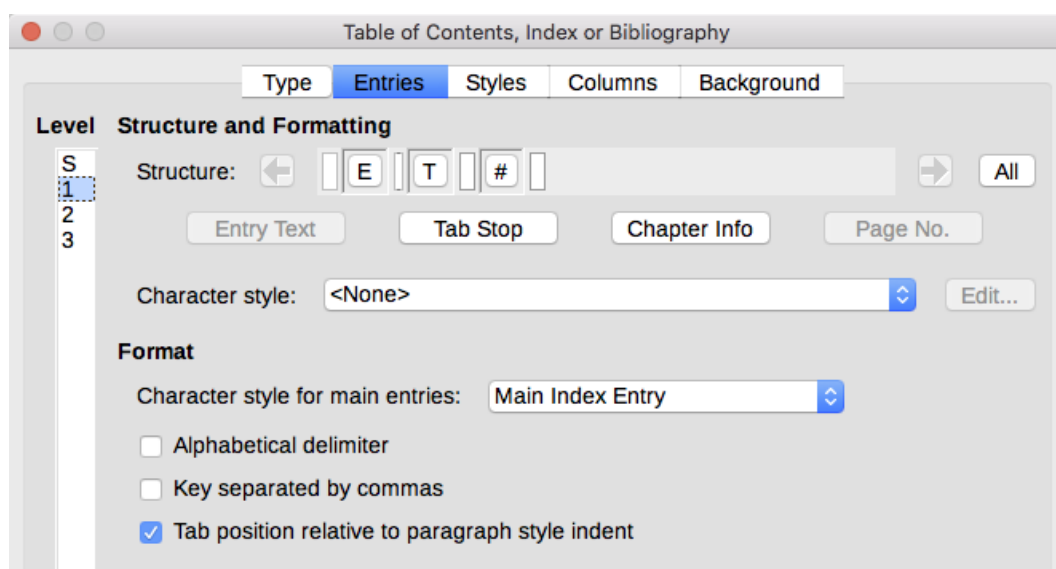


Figure 10: Entries tab for an alphabetical index

To begin, in the Level column select the index level whose elements you want to format. Level “S” refers to the single letter headings that divide the index entries alphabetically when the Alphabetical delimiter option is selected in the *Format* section. (You will be able to apply your changes to all index levels later.) In the *Structure and Formatting* section, the *Structure* line displays the elements for entries in that level. Each button on the line represents one element:

- The **E** icon represents the entry text.
- The **T** icon represents a tab stop.
- The **#** icon represents the page number.
- The **CI** icon represents chapter information. This is not present by default, but can be added by selecting the **Chapter info** button.

Each white field on the Structure line represents a blank space. You can add, change, or delete elements as described on page 9 for a table of contents.

Chapter Info

The **Chapter Info** button inserts chapter information, such as the chapter heading and number. The information to be displayed is selected from the Chapter entry list that appears when this option is selected. This data is determined in the Chapter Numbering dialog (**Tools > Chapter Numbering**).

Applying character styles

Each element on the Structure line may be given additional formatting. For example, you may want the page number to be a different size from the rest of the index text. To do this, apply a character style to one of the elements in the Structure line, as for a table of contents; see page 10.

Formatting entries

Apply additional formatting using the options in the *Format* section.

- **Alphabetical delimiter.** This separates the index entries into blocks that start with the same first letter, using that letter as a header. For example, if your index begins:
apple, 4
author, 10
break, 2
bus, 4
- Then selecting this option will give you:
A
apple, 4
author, 10
B
break, 2
bus, 4
- **Key separated by commas.** Arranges the entries in the index on the same line but separated by commas.
- **Tab position relative to Paragraph Style indent.** When selected, entries are indented according to the settings of their individual formats. Where a paragraph style with an indent on the left is in use, tab stops will be relative to this indent. If this option is not selected, tab stops will be relative to the left margin position.

Styles and Background tabs

Use the *Styles* tab to change which paragraph style is assigned to display the text of each level in the index. In most cases, the best strategy is to keep the assigned styles but you can change their settings as needed to make the index appear the way you want.

The *Background* tab is the same as for TOCs. Refer to “Styles tab” on page 11 and “Background tab” on page 11 for detailed information on these tabs.

Columns tab

Use the Columns tab (Figure 11) to change the number of columns for the index.

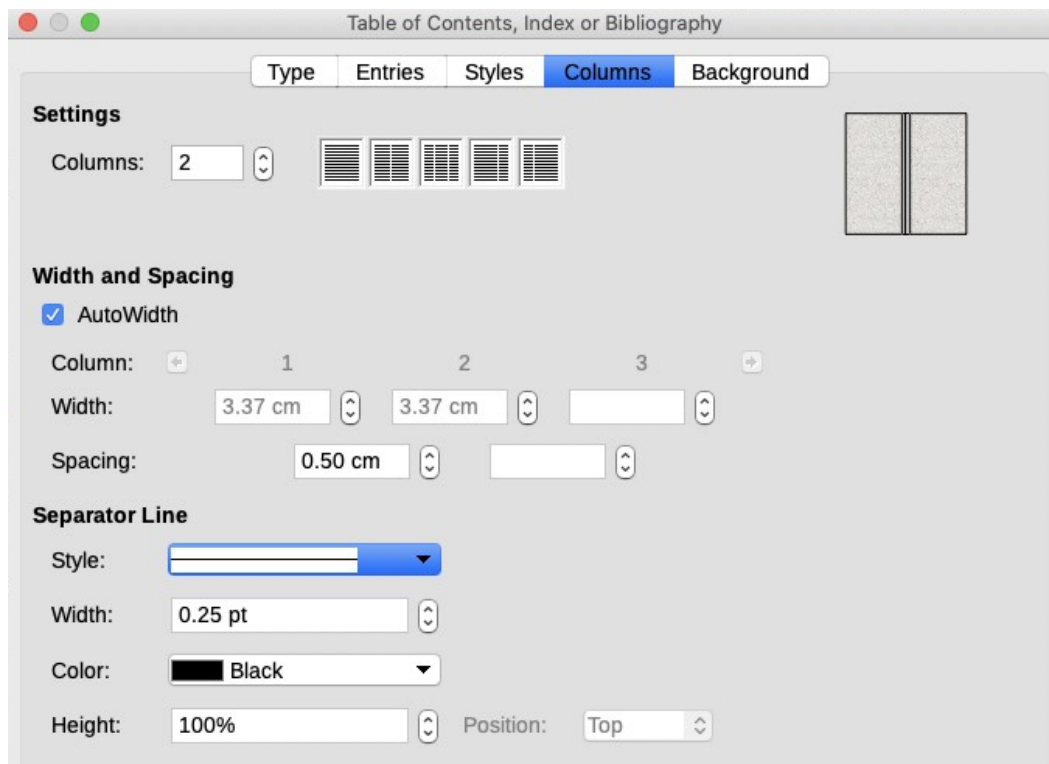


Figure 11: Columns tab of the Table of Contents, Index or Bibliography dialog

Adding multiple columns

To display the index in more than one column:

- 1) Either enter the number of columns desired in the box labeled **Columns** or select the icon representing the number of columns.
- 2) To evenly distribute the columns according to the page width, select the **AutoWidth** box. If it is unchecked, you can manually set each of the following:
 - Width of each of the columns
 - Spacing between the columns
- 3) You can choose to have a separator line between the columns:
 - Style: The default is None, or select from three choices of line style.
 - Width: The width (thickness) of the line. The default is 0.25pt.
 - Color: Choose the color of the separator line. The default is Black.
 - Height: The height of the line, as a percentage of the full column height. The default is 100%
 - Position: Position of the line relative to the columns (top, centered, or bottom) if the height is less than 100%.

Maintaining an index

To modify the appearance of an index, right-click anywhere in the index and choose **Edit Index** in the context menu. The Table of Contents, Index or Bibliography dialog opens and you can edit and save the index using the five tabs described in the previous section.

To update or delete an index, right-click anywhere in the index and select **Update Index** or **Delete Index**.

Viewing and editing existing index entries

Once you have added the initial entries, you can make some amendments. You can view and edit these using the following steps:

- 1) Ensure that field shading is active (**View > Field Shadings** or *Ctrl+F8*), so you can locate index entries more easily.
- 2) Place the cursor in the field shading of an existing index entry in the body of the document, right-click, and select **Index Entry** in the content menu. In the case of a changed-text entry, the field shading is immediately before the word. Placing the cursor immediately before a word marked as a text entry will satisfy both selection criteria.
- 3) A dialog similar to Figure 12 appears. You can move through the various index entries using the forward and back arrow buttons. If there is more than one entry for a single word or phrase, a second row of buttons with a vertical bar at the point of the arrow head is displayed allowing you to scroll through each of these entries.
- 4) Make the necessary modifications or additions to the index entries, and then click **OK**.



Figure 12: Viewing and editing index entries

Other types of index

An alphabetical index is not the only type of index that you can build with Writer. Other types of indexes supplied with Writer include those for illustrations, tables, and objects, and you can even create a user-defined index. This chapter does not give examples of all the possibilities.

To create other indexes:

- 1) Place the cursor where you want the index created.
- 2) Select **Insert > Table of Contents and Index > Table of Contents, Index or Bibliography** on the Menu bar.
- 3) On the Table of Contents, Index or Bibliography dialog, in the *Type* drop-down list, select the index wanted.
- 4) Modify the various tabs, which are similar to those discussed in previous sections.
- 5) Click **OK** when everything has been set.

Example: Creating an index of figures

Creating an index (list) of figures or tables is easy if the figure captions were created using **Insert > Caption** or manually using a number range variable as described in Chapter 17, Fields.

- 1) On the Table of Contents, Index or Bibliography dialog, in the Type drop-down list, choose *Table of Figures*. You can change the title of the index to something else; we have used Table of Figures as our title.
- 2) Be sure **Captions** is selected in the *Create From* section, and choose the category of caption. The default for Category is Figure; in our example we have used Figure for the figure captions.
- 3) Under Display, you can choose *References* (to include the category, number, and caption text), *Category and Number*, or *Caption Text*. We have chosen References.
- 4) The other tabs of this dialog are similar to those described for tables of contents.

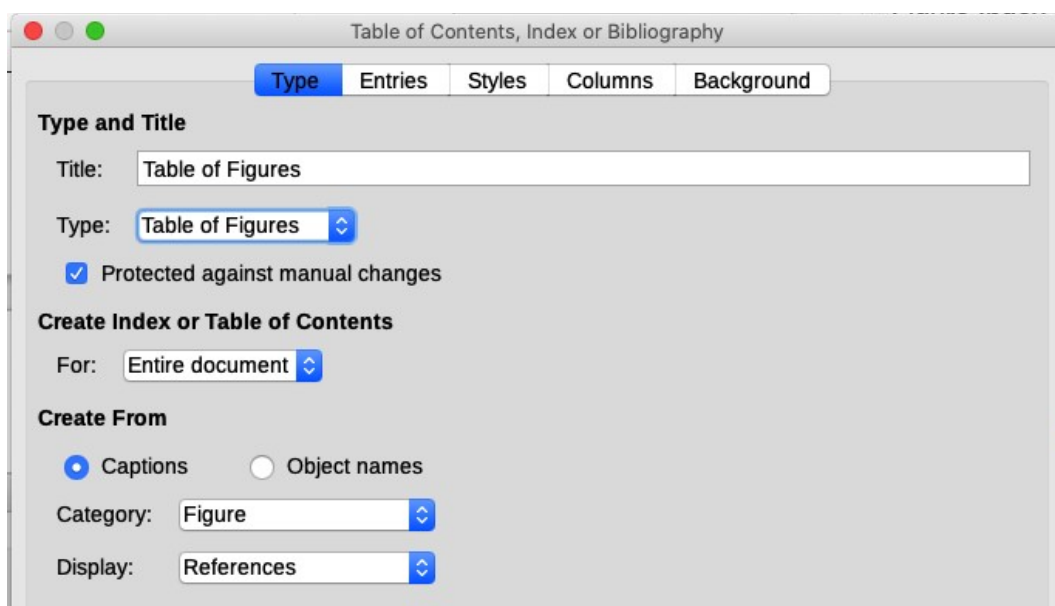


Figure 13: Creating other types of indexes

- 5) Click **OK**. The result is shown in Figure 14.

Table of Figures	
Figure 1: Type tab of Table of Contents, Index or Bibliography dialog.....	6
Figure 2: Assigning additional styles to TOC levels.....	8
Figure 3: Entries tab of Table of Contents, Index or Bibliography dialog.....	9
Figure 4: Styles tab of the Table of Contents, Index or Bibliography dialog.....	11
Figure 5: Background tab, showing Color choices.....	12
Figure 6: Image options on the Background tab.....	12
Figure 7: Insert Index Entry icon on Insert toolbar.....	14
Figure 8: Inserting an index entry.....	14
Figure 9: Type tab for an alphabetic index.....	17
Figure 10: Entries tab for an alphabetical index.....	18
Figure 11: Columns tab of the Table of Contents, Index or Bibliography dialog.....	20
Figure 12: Viewing and editing index entries.....	21
Figure 13: Creating other types of indexes.....	22
Figure 14: Resulting table of figures.....	22
Figure 15: Bibliography Database main window.....	24
Figure 16: Setting up a filter for the bibliographic database.....	25

Figure 14: Resulting table of figures

Bibliographies

A bibliography is a list of references used in a document. The references can be stored in a bibliographic database or within the document itself.

This section shows you how to:

- Create a bibliographic database; add and maintain entries.
- Add a reference (citation) into a document.
- Format the bibliography.
- Update and edit an existing bibliography.

Citations within the text require entries in different fields in the bibliography database, and different presentations in the text. Before creating a list of references, determine which citation style you need for a document. The five main styles are:

- APA (American Psychological Association): Psychology, education, and other social sciences.
- MLA (Modern Languages Association): Literature, art, and humanities.
- Chicago: History and specific publications.
- Turabian: A variation of the Chicago style for general use by university students.
- AMA (American Medical Association): Medicine, Health, and Biology.

The Bibliography Database (Figure 15) is the source for citations in the text, no matter what citation style you use.

All citations use the Identifier field (first on the left) to set the format for a citation in the document. In this column, you can add the citation in the correct form for the citation style. All necessary information, including the Identifier field, should be entered before any citation is created in the document. The Identifier column in the database table and the Short Name field below the table are the same field.

Tip

Writer has a single bibliography database for all documents. Since formatting entries can be tedious, consider creating a template with citations for each type of source material.

Creating a bibliographic database

Although you can create references within the document itself, creating a bibliographic database allows reuse in other documents and saves a lot of time.

For most of this section, the database table used is the sample one that comes with Writer. For information on creating a new table in the bibliographic database, see Chapter 8, Getting Started with Base, in the *Getting Started Guide*.

The bibliography database has to cover many different media and circumstances, which is why it contains so many fields. It also includes fields such as ISBN that no citation style uses, but might be useful to you during your research.

Note

Any single entry in the bibliography needs only about half a dozen fields filled in, no matter what citation format you use. What differs is the fields needed for each type of source material and the order of the fields in each citation style.

To open the database select **Tools > Bibliography Database**. The Bibliography Database window, similar to that in Figure 15, opens. The upper part of the tab shows all of the records, in a table layout similar to that of a spreadsheet. The lower part of the tab shows all the fields of the selected record.

Caution

The sample entries in the sample database for both the Identifier column and the Short Name field are meaningless. Replace them with the proper format for the citation style you are using.

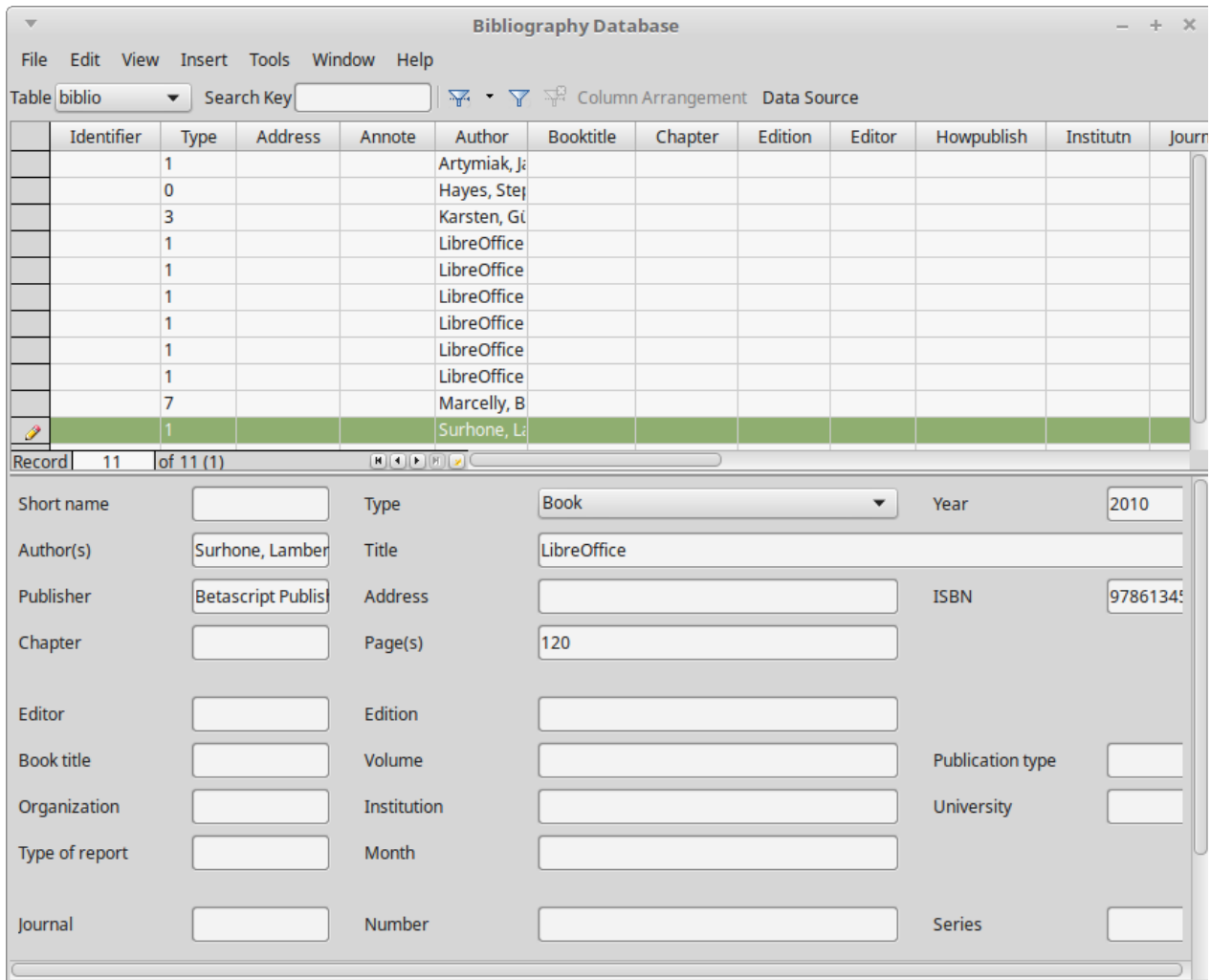


Figure 15: Bibliography Database main window

Changing the data source

To change the data source in use (for example, if you have more than one bibliographic database for different purposes), select **Data > Choose Data Source** on the Menu bar, or click the **Data Source** button on the toolbar near the top of the Database window. The Choose Data Source dialog lists registered data sources. Select one of them and click **OK**.

To add (register) a different data source, see instructions in Chapter 8, Getting Started with Base, in the *Getting Started Guide*.

Filtering records

To set up a filter for specific records within the bibliographic database, select **Data > Filter** on the Bibliographic Database Menu bar, or click the **Standard Filter** button on the toolbar near the top of the window. In the Standard Filter dialog (Figure 16), choose the fields, conditions, and values for the filter and click **OK**.

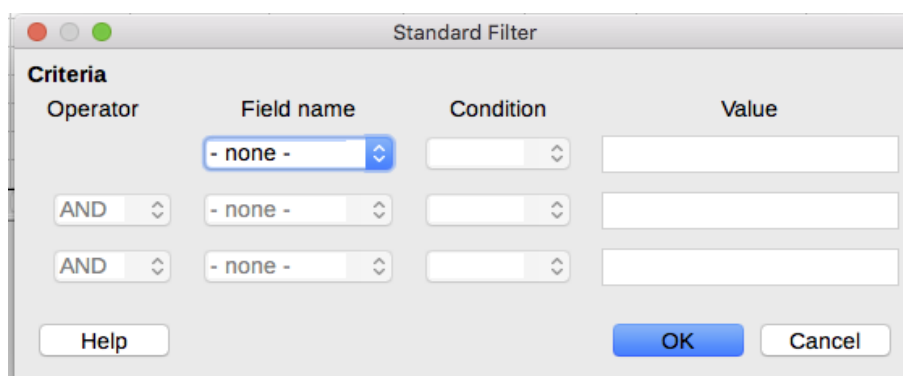


Figure 16: Setting up a filter for the bibliographic database

Adding entries to the database

Use the Bibliography Database dialog (**Tools > Bibliography Database**) to add entries to the database:

- 1) You can add records directly into the database using the fields in the lower section of the dialog shown in Figure 15 on page 24.
- 2) Select **Data > Record** on the Menu bar of the Bibliography Database dialog, or click the **+** icon to the left of the horizontal scroll bar.
- 3) Enter a name for the entry in the *Short Name* box. Complete other fields as required. Use the *Tab* key to move between fields.

It is best to use a unique name in the Short name field. This field is used when inserting entries into documents.

- 4) To complete the entry, move to the last field and press *Tab* again, or click on any other cell in the table.

If your document requires [Author, date] style citations, use the Short name field of the database to record the information in the required format.

Maintaining entries in the database

To maintain entries in the database, use the Bibliography Database dialog (**Tools > Bibliography Database**). Click the appropriate record and modify the fields as appropriate.

Modified entries are saved automatically to the database when the cursor moves off the record.

Advanced: Modifying the bibliographic database

You can modify the bibliography database in several ways, as summarized below.

✓ Note

For more information on how to use LibreOffice's database features, see Chapter 8, *Getting Started with Base*, in the *Getting Started Guide*.

Column details

To change the details of columns in the bibliographic database, select **Data > Column Arrangement** on the Menu bar, or click the **Column Arrangement** button on the toolbar near the top of the window (Figure 15). On the Column Layout for Table “biblio” dialog (Figure 17), you can change which fields are allocated to which columns. As an example, you can select to have Author data go into the Identifier column, by changing the destination in the drop-down list. The Short name data column destination sets to <none> automatically, as you can't set duplicate destinations for data.

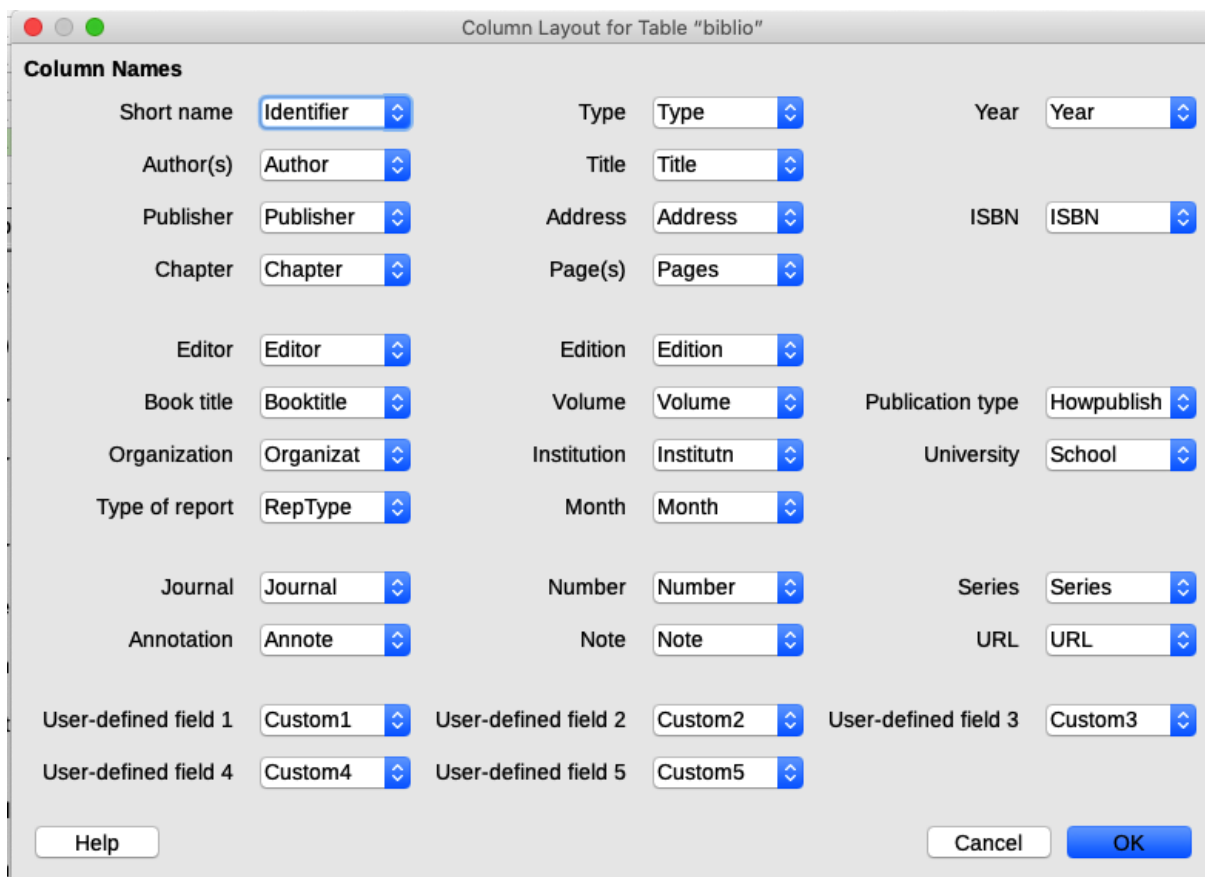


Figure 17: Changing column layout for bibliographic database

Field details

You can make changes to the bibliography database (for example, rename fields or change the length of fields) by doing the following:

- 1) In the main document (not the Bibliography Database window), press **Shif+Ctrl+F4** or click **View > Data Sources** to open the data source window, similar to Figure 18.
- 2) Make sure that the Bibliography database is selected as well as the correct table. You may have to expand some levels to be able to select the correct ones.

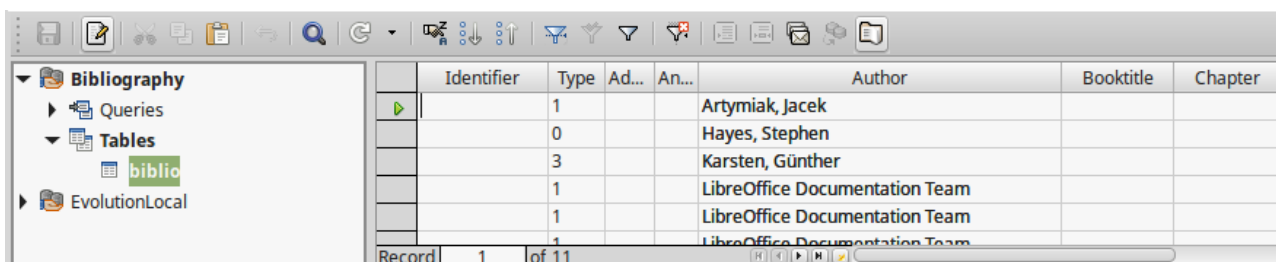


Figure 18: Data Source view of Bibliography database

- 3) Right-click the table entry (biblio in the example) and select **Edit Database File** in the context menu. This opens a window similar to Figure 19, which is the main menu for Base, the database component of LibreOffice.
- 4) If **Tables** (in the *Database* section on the left) is not selected, select it now.
- 5) Right-click the biblio table name in the *Tables* section and select **Edit** in the context menu to display a window similar to that shown in Figure 20.
- 6) You can now select each of the fields. Select the text in the *Field Name* cell and change the entry as required. Click in the *Field Type* cell to open a selection menu to change the data type in that cell. In the *Field Properties* section, you can modify the data properties. For each field selected, a description of that field appears to the right of the section.
- 7) When finished, you will be asked to confirm that you want the changes saved.

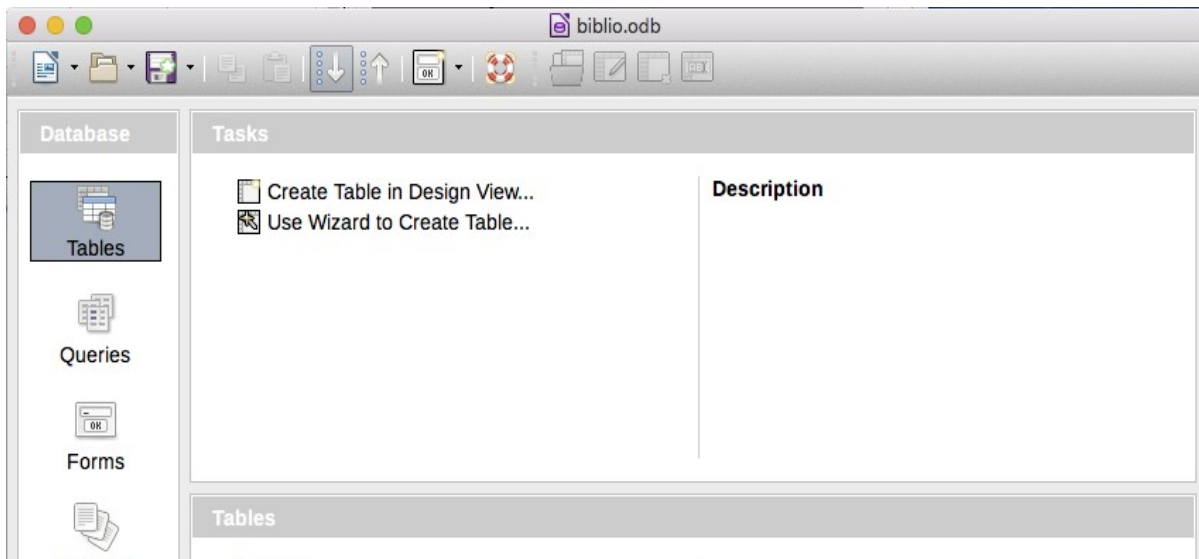


Figure 19: Main window for working with databases

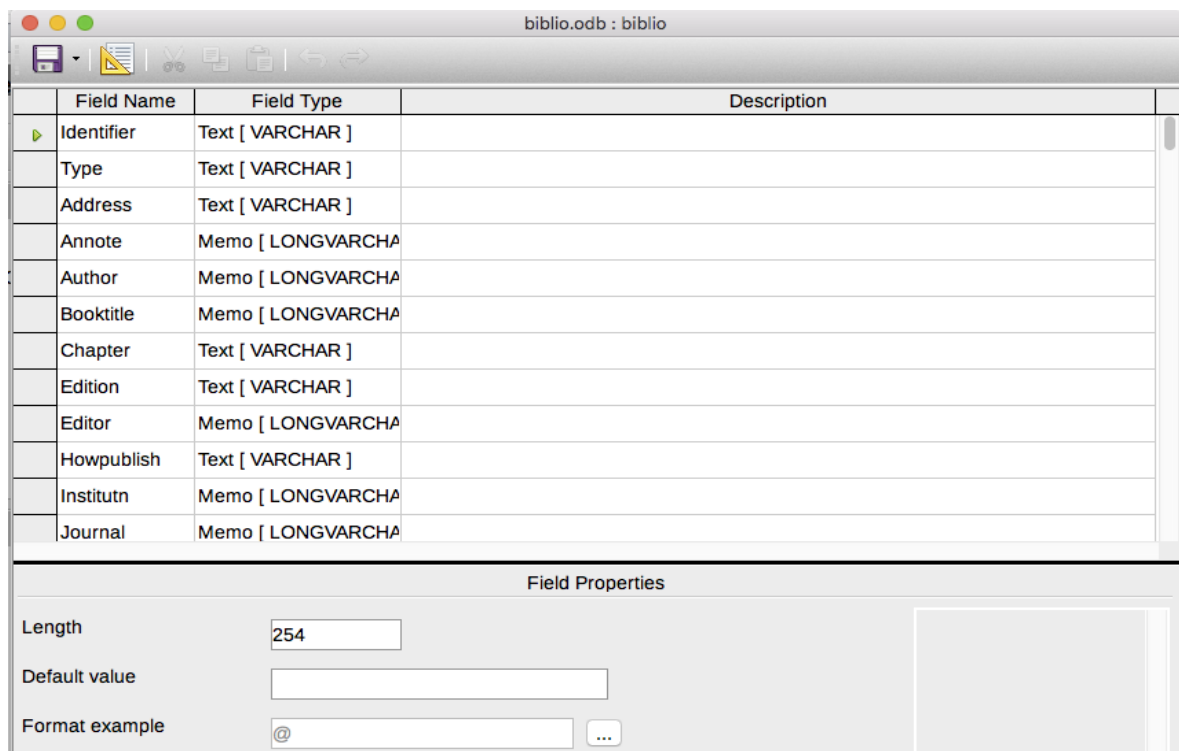


Figure 20: Modify table properties window

Adding references (citations) into a document

Writer supports two methods of adding references to your document:

- From a bibliography database, such as the one built into Writer.
- Directly from the keyboard.

Entering references from a database

To add references from the bibliographic database into a document:

- 1) Place the cursor where you want the reference to appear.
- 2) On the Menu bar, choose **Insert > Table of Contents and Index > Bibliography Entry**.
- 3) In the Insert Bibliography Entry dialog (Figure 21), choose **Bibliography database** in the *Bibliography Source* section at the top of the dialog.

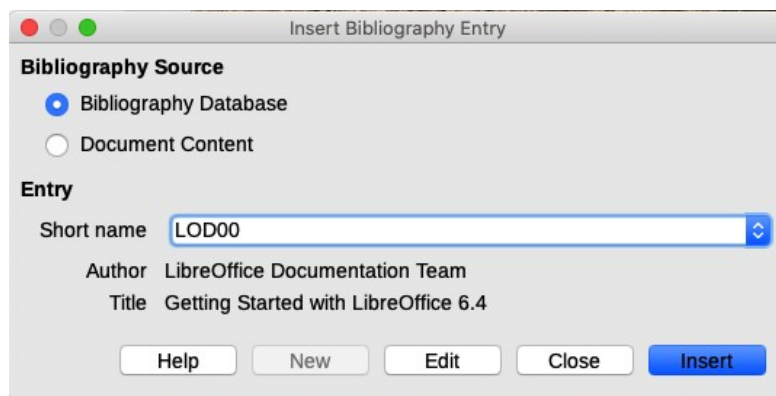


Figure 21: Inserting bibliographic entries into a document

- 4) Select the reference from the *Short name* drop-down list in the middle of the dialog. The Author and Title of the selected reference are shown below the Short name field, to help you verify that it is the reference you want.
- 5) To insert the reference into the document, click **Insert**.
You can keep the dialog open and insert another reference into the document; you do not need to close and reopen it.
- 6) When you have finished inserting all the references, click **Close**.

Entering references from documents

You may choose to enter your bibliographic entries directly into the document, instead of from an external database. Click in the document where you want to add the entry.

- 1) Select **Insert > Table of Contents and Index > Bibliography Entry**.
- 2) In the Insert Bibliography Entry dialog (Figure 21), select **Document content** in the *Bibliography Source* section at the top of the dialog.
- 3) Click **New** to open the Define Bibliography Entry dialog.
 - a) Complete all the fields that are relevant to your entry. Type a unique name in the **Short name** box; the Insert Bibliography Entry dialog uses this entry for the citation.
 - b) Select an option in the menu in the *Type* box to enable the **OK** button.
 - c) Click **OK** when all the fields wanted are completed.
 - d) Click **Insert** to add the Short name field to the document, and then click **Close**.

To re-use an entry in your document, restart the sequence above, and then select the Short name required from the current list of entries, instead of selecting to add a new entry.

Editing a reference

To edit a reference:

- 1) Right-click the entry (the cursor then displays to the left of the entry).
- 2) In the context menu, select **Bibliography Entry**. The Edit Bibliography Entry dialog (similar to the Insert Bibliography Entry dialog) opens.
- 3) To quickly edit only the Short name, click the text box, edit the entry and then click **Apply**.
- 4) To edit more of the entry, click **Edit** to open the Define Bibliography Entry dialog. Make any changes required and then click **OK** to return to the Edit Bibliography Entry dialog.
- 5) Click **Apply** to accept the changes and exit the dialog.

✓ Note

Whatever the source of the citation, the modified references are stored only in the document. If the source is a bibliography database, that database remains unmodified.

Creating the bibliography

- 1) Place the cursor at the point where you wish to insert the bibliography.
- 2) Select **Insert > Table of Contents and Index > Table of Contents, Index or Bibliography** and change the *Type* to Bibliography, to display a dialog similar to that shown in Figure 22.

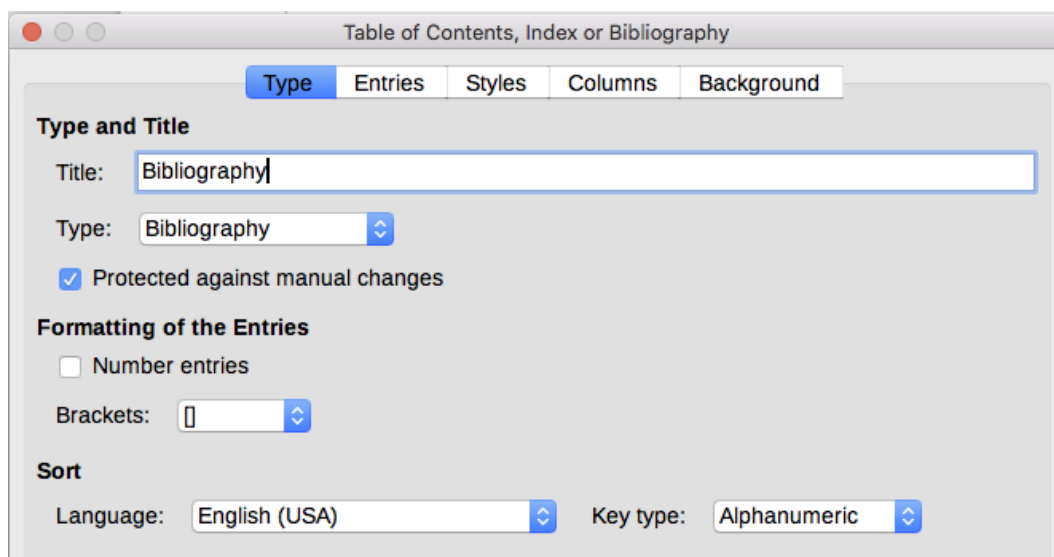


Figure 22: Inserting a bibliography

Type tab

Writer supports two ways of displaying references (citations) in the text of a document:

- Using the text recorded in the Short name field of each bibliographic entry, for example (Smith, 2001) depending on citation style.
- By numbering the referenced documents in the sequence they occur in the text, for example [1].

Tip

To specify which citation style is used in the document, use the *Type* tab on the Table of Contents, Index or Bibliography dialog (Figure 22).

Formatting the bibliography involves choices made in two places:

- Table of Contents, Index or Bibliography dialog, covered in this section.
- Bibliography 1 paragraph style (see page 31).

The basic settings are selected on this tab.

- 1) To give the bibliography a title, enter it in the Title field. (A title is not required.)
- 2) You can protect the bibliography from being changed accidentally, by selecting **Protected against manual changes**. If this option is selected, the bibliography can only be changed using the right-click menu or the Table of Contents, Index or Bibliography dialog. If the option is not selected, the bibliography can be changed directly on the document page, just like other text, but any manual changes will be lost when you update the bibliography.
- 3) To have the bibliographic entries (citations) numbered within the body of the document (for example, [1], [2]...), select **Number entries**. If, however, you wish to have the Short name field contents (from the database) appear in the document, deselect this option.
- 4) Select the type of brackets that you want for the referenced entries shown within the body of the document.
- 5) Define the sorting you require. Currently only alphanumeric sorting is supported. Sorting by the sequence that entries appear in the text is done on the *Entries* tab.

Entries tab

The structure of this tab (Figure 23) is similar to that for tables of contents and for indexes.

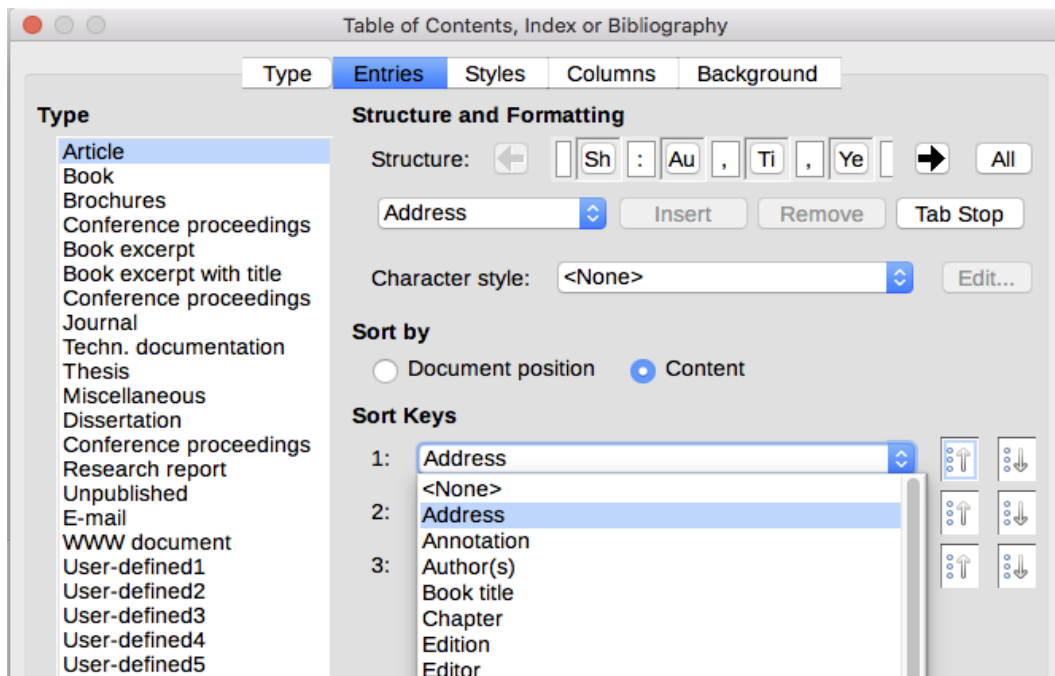


Figure 23: Entries tab for bibliographies

The *Type* section refers to the kind of source, such as a periodical or a web page. Each entry in the *Type* list has a default structure format. You can define how the entry will appear, based on its source, by selecting from the *Type* list of entries, or simply apply the same format to all entries by clicking the **All** button.

The Structure of the entry is based on the fields available in the bibliographic database. Consult the citation style required for your document and modify the Structure line as needed.

To remove elements from the Structure line, click the element then click the **Remove** button.

To add an element, click in the Structure line where it is to be inserted. Select either the **Tab Stop**, or an element in the drop-down list to the left of the **Insert** button, and then click **Insert**. The elements in the drop-down list are those fields found in the Bibliography Database.

All the elements on the Structure line can be formatted using the Character Style selection list. For example, you can define a character style so that book and journal titles are in italics or bold.

To determine how entries are sorted, modify the *Sort by* options. To sort by the sequence that entries appear in the text, choose **Document position**. In most modern citation styles, you will want **Content** (alphabetical descending order). Use *Sort keys* to group similar references.

Styles, Columns and Background tabs

Refer to “Styles tab” on page 11, “Columns tab” on page 19 and “Background tab” on page 11 for detailed information on these tabs.

Modifying the paragraph style for the bibliography

You can modify the Bibliography 1 paragraph style to suit your requirements. For example, to number the entries in the bibliography list, you need to define a list style and link that list style to the Bibliography 1 paragraph style. To do this:

- 1) On the Styles deck in the sidebar, click on the **List Styles** icon. Right-click on *Numbering 123* and choose **New** in the context menu.
- 2) In the List Style dialog, go to the *Organizer* tab and type a name for this style. In our example, we have named it **Bibliography**.
- 3) In our example we want to have the numbers enclosed in square brackets. To do this, go to the *Customize* tab and type [in the *Before* box and] in the *After* box, as shown in Figure 24. Remove any other punctuation, such as a period, that may be in the *After* box.

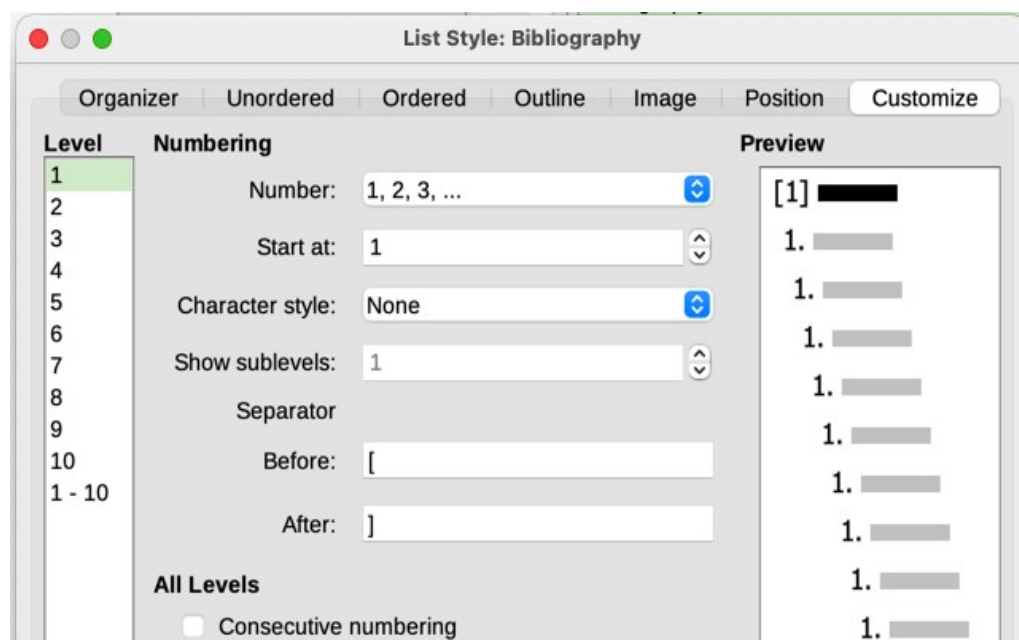


Figure 24: Specifying square brackets before and after the number in a list

- 4) Now go to the *Position* tab of the List Style dialog (Figure 25). In the *Indent at* and *Tab stop at* boxes, specify how much indentation you want for the second and following lines of any item in the bibliography list of your document. Often you will need to experiment a bit to see what is the best setting. In our example, we have chosen 1 cm.

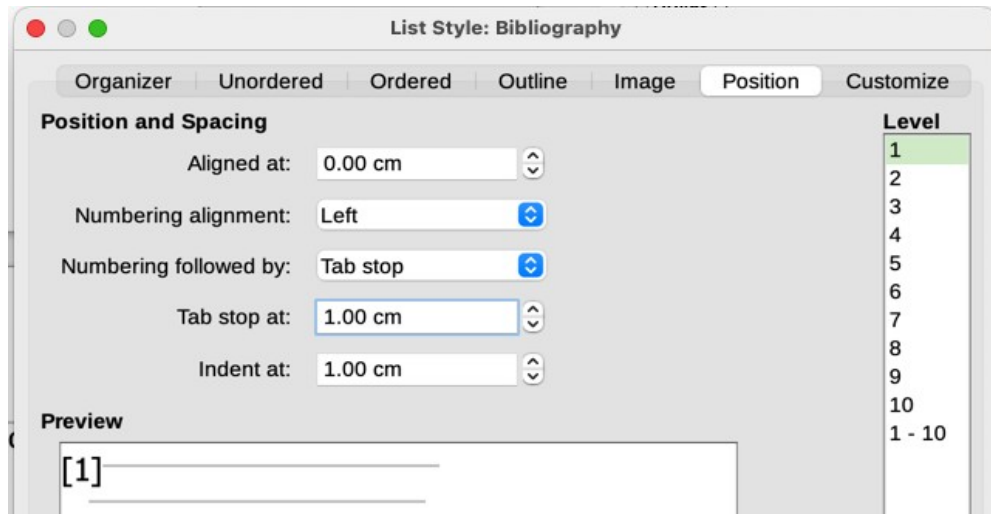


Figure 25: Setting the spacing between the margin and the text

- 5) Click **OK** to save these settings and close the List Style dialog. Return to the Styles deck, click the **Paragraph Styles** icon, choose **All Styles** in the list at the bottom of that window, then right-click on *Bibliography 1* and choose **Modify**.
- 6) On the Paragraph Style dialog, go to the *Outline & List* tab and select **Bibliography** in the List Style drop-down list (Figure 26). Click **OK** to save this change to the Bibliography 1 paragraph style.

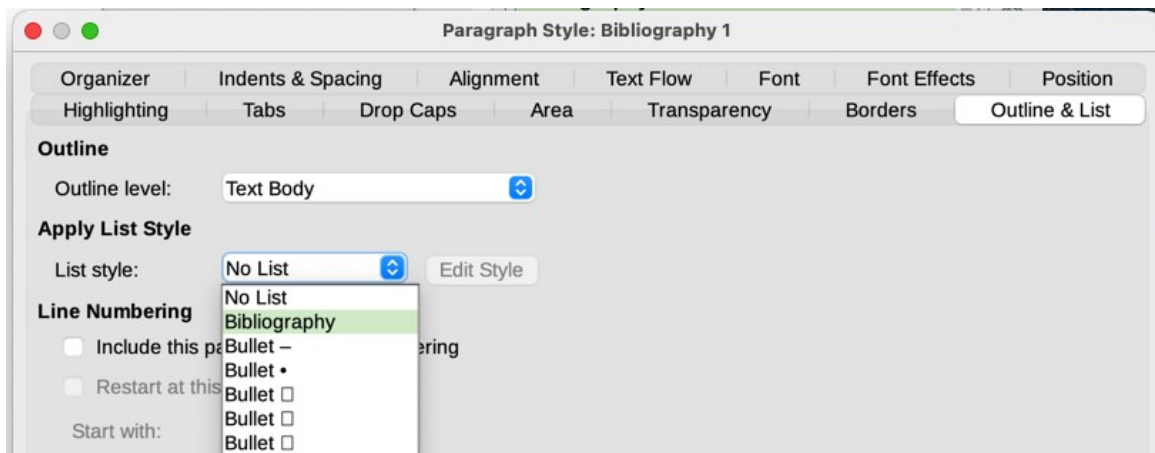


Figure 26: Applying a list style to a paragraph style

Now when you generate the bibliography, the list will look something like the one shown in Figure 27. You may also need to modify the structure line on the Entries tab (Figure 23).

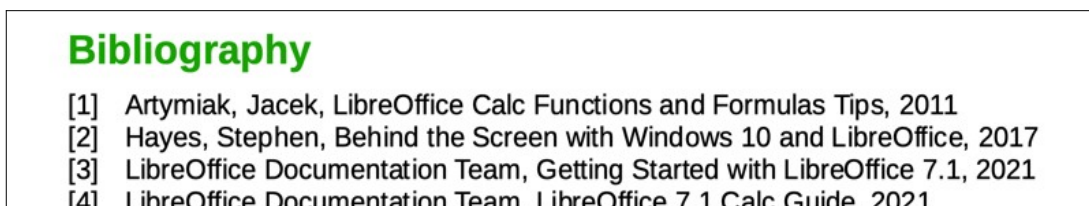


Figure 27: Result of changing settings for Bibliography 1 paragraph style

Updating, editing, and deleting an existing bibliography

Right-click anywhere in the bibliography. From the context menu, select:

- **Update Index** to update the bibliography.
- **Edit Index** to open the Table of Contents, Index or Bibliography dialog so you can edit and save the bibliography.
- **Delete Index** to delete the bibliography without a confirmation request.

External bibliography tool

If you find Writer's bibliography feature too limited, you may wish to try Zotero, which is free and open source, available for macOS, Windows, and Linux. It is reported to work well with Writer (<https://www.zotero.org/>).