



LibreOffice
The Document Foundation

Writer Guide

Chapter 4

Formatting Pages

Using Page Styles, Tables, Frames, Columns, and Sections

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Note for Mac users

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

<i>Windows or Linux</i>	<i>Mac equivalent</i>	<i>Effect</i>
Tools > Options menu selection	LibreOffice > Preferences	Access setup options
<i>Right-click</i>	<i>Control+click</i>	Opens a context menu
<i>Ctrl (Control)</i>	⌘ (<i>Command</i>)	Used with other keys
<i>F5</i>	<i>Shift+⌘+F5</i>	Opens the Navigator
<i>F11</i>	⌘+T	Opens the Styles and Formatting window

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Introduction

Writer provides several ways for you to control page layouts:

- Page styles
- Columns
- Frames
- Tables
- Sections

This chapter describes these methods and some associated things:

- Headers and footers
- Numbering pages
- Changing page margins

Tip

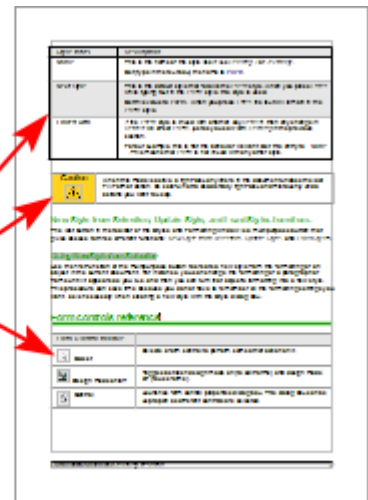
Page layout is usually easier if you select the options to show text, object, table, and section boundaries in **Tools > Options > LibreOffice > Appearance** and the options for paragraph ends, tabs, breaks, and other items in **Tools > Options > LibreOffice Writer > Formatting Aids**.

Choosing a layout method

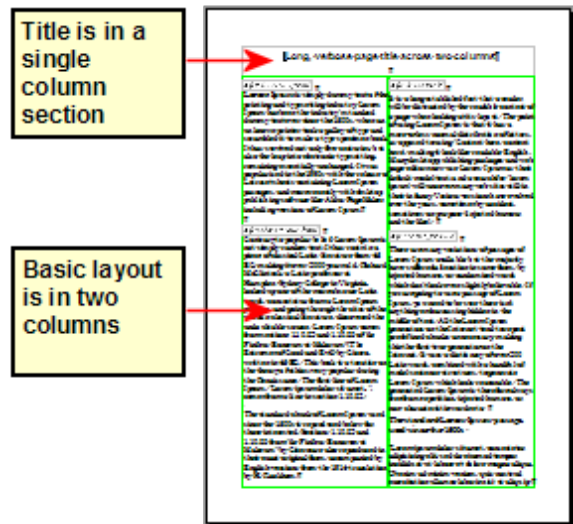
The best layout method depends on what the final document should look like and what sort of information will be in the document. Here are some examples. Do not worry if all this does not mean much to you now. The techniques mentioned are all described in this chapter.

For a book similar to this user guide with one column of text, some figures without text beside them, and some other figures with descriptive text, use page styles for basic layout, and use tables to place figures beside descriptive text, where necessary.

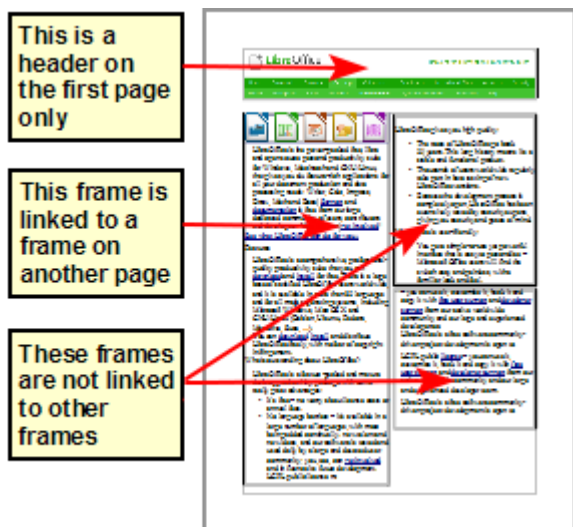
Items formatted as a table



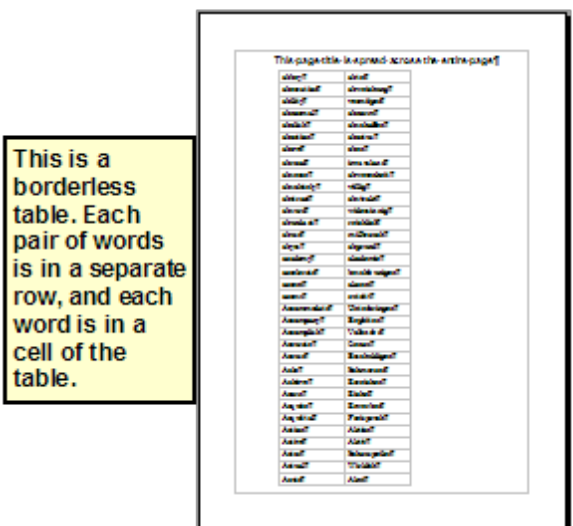
Use page styles (with two columns) for an index or other document with two columns of text where the text continues from the left-hand column to the right-hand column and then to the next page, all in sequence (also known as *snaking columns* of text). If the title of the document (on the first page) is full-page width, put it in a single-column section.



For a newsletter with a complex layout, two or three columns on the page, and some articles that continue from one page to some place several pages later, use page styles for basic layout. Place articles in linked frames and anchor graphics to fixed positions on the page, if necessary.



For a document with terms and translations to appear side-by-side in what appear to be columns, use a table to keep items lined up so you can type in both "columns".



Setting up basic page layout using styles

In Writer, *page styles* define the basic layout of all pages, including page size, margins, the placement of headers and footers, borders and backgrounds, number of columns, and so on.

Writer comes with several page styles, which you can build on or modify, and you can define new (custom) page styles. You can have one or many page styles in a single document.

Note

All pages in a Writer document are based on styles. If you do not specify a page style, Writer uses the *Default* page style.

To change the layout of individual pages, either define a new page style or use one of the techniques (sections, frames, or tables) described later in this chapter.

This chapter describes some uses of page styles. Some other uses are discussed in Chapter 6, Introduction to Styles. The Page Style dialog box is covered in detail in Chapter 7, Working with Styles.

Tip

Any modifications of page styles, including the *Default* page style, apply only to the document you are working on. If you want the changes to be the default for all documents, you need to put the changes into a template and make that template the default template. See Chapter 10, Working with Templates, for details.

Inserting a page break without switching the style

In many documents (for example, a multi-page report), you may want the text to flow from one page to the next as you add or delete information. Writer does this automatically, unless you override the text flow using one of the techniques described earlier.

If you do want a page break in a particular place, for example, to put a heading at the top of a new page, here is how to do it:

- 1) Position the cursor at the point you want to start the next page. Select **Insert > Manual Break**.
- 2) In the *Type* section, *Page break* is preselected, and **Style** is set at *[None]*.
- 3) Click **OK** to position the paragraph at the start of the next page.

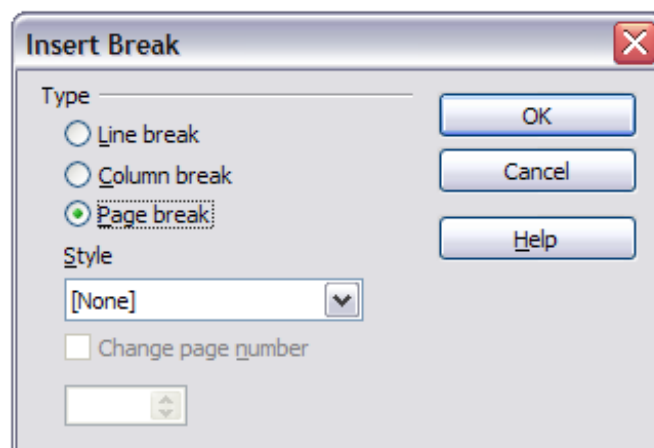
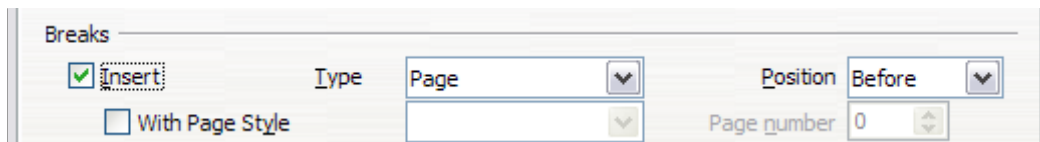


Figure 1: Inserting a manual page break

Tip

You can also insert a page break as follows;

- 1) Position the cursor in the paragraph you want to be at the start of the next page. *Right-click* and choose **Paragraph** in the pop-up menu.
- 2) On the *Text Flow* page of the Paragraph dialog box, in the *Breaks* section, select **Insert**. Do *not* select **With Page Style**.
- 3) Click **OK** to position the paragraph at the start of the next page.



Defining a different first page for a document

Many documents, such as letters and reports, have a first page that is different from the other pages in the document. For example, the first page of a letterhead typically has a different header, as shown in Figure 2, or the first page of a report might have no header or footer, while the other pages do. With Writer, you can define the style for the first page and specify the style for the following page to be applied automatically.

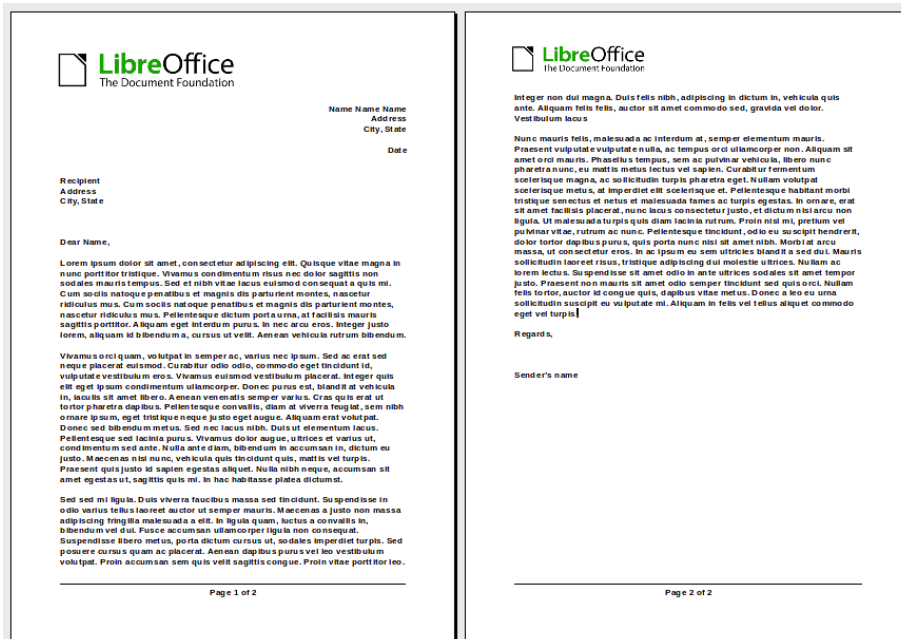


Figure 2: Letterhead with different page styles for first and following pages

As an example, we can use the *First Page* and *Default* page styles that come with Writer. Figure 3 shows what we want to happen: the first page is to be followed by the default page, and all the following pages are to be in the *Default* page style.

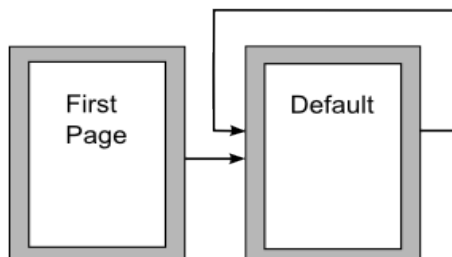




Figure 3: Flow of page styles

To set up this sequence:

- 1) Open the Styles and Formatting window. (Do one of the following.)
 - Choose **Format > Styles and Formatting** from the menu bar.
 - Click the **Styles and Formatting** icon  located at the left-hand end of the Formatting toolbar.
 - Press *F11*.
- 2) On the Styles and Formatting window, click on the **Page Styles** icon  to display a list of page styles.
- 3) Right-click on **First Page** and select **Modify** from the pop-up menu.
- 4) On the *Organizer* page of the Page Style dialog box, look at the *Next Style* property. This property defines what the page style for the next page will be. It should be set to **Default**, but if it is not, you can change the next style by clicking on the drop-down button and choosing **Default** from the list of page styles.

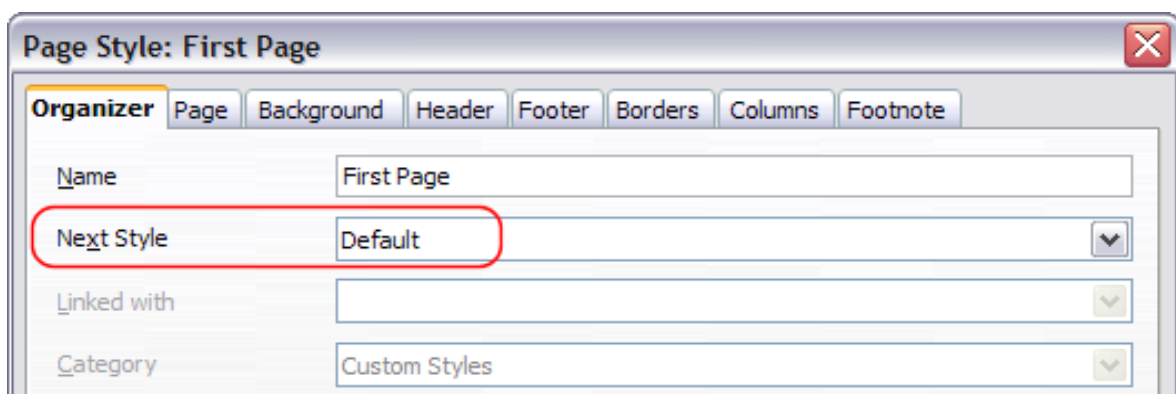


Figure 4: Set the Next Style property for a page style

- 5) On the other pages of this dialog box, you can turn on or off the header and footer for the first page and define other characteristics, such as columns, a page border, or a page background. For more information, see Chapter 7, Working with Styles.
- 6) Click **OK** to save the changes.

Tip

Alternatively:

- Select **Format > Title Page**; accept preselected options. Click **OK**.
- Select **Format > Page**; continue from step 4 above.

Note

You can override the *Next Style* property by manually inserting a page break and specifying a page style or by starting a page with a paragraph or table that has its own page style property defined. These techniques are described in “Inserting a landscape page into a portrait document” on page 11.

Changing page orientation within a document

A document can contain pages in more than one orientation. A common scenario is to have a landscape page in the middle of a document, whereas the other pages are in a portrait orientation. Here are the steps to achieve it.

Setting up a landscape page style

- 1) If you wish to keep the margins the same as on other pages, then note the margin settings of the current page style. (You can find the margin settings on the *Page* page of the Page Style dialog box, as shown in Figure 6.)
- 2) In the Styles and Formatting window, right-click on **Landscape** in the list of page styles and choose Modify from the pop-up menu.
- 3) On the *Organizer* page of the Page Style dialog box (Figure 5), make sure the *Next Style* property is set to **Landscape** (to allow for having more than one sequential landscape page).

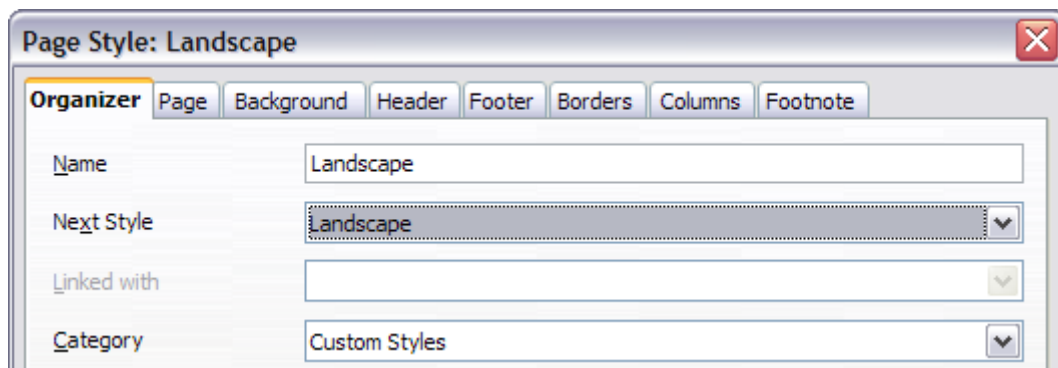


Figure 5: Name the new style and set the next page style to Landscape

- 4) On the *Page* page of the Page Style dialog box (Figure 6), make sure the *Orientation* is set to **Landscape**. Change the margins so that they correspond with the margins of the portrait page. That is, the portrait top margin becomes the landscape left margin, and so on.

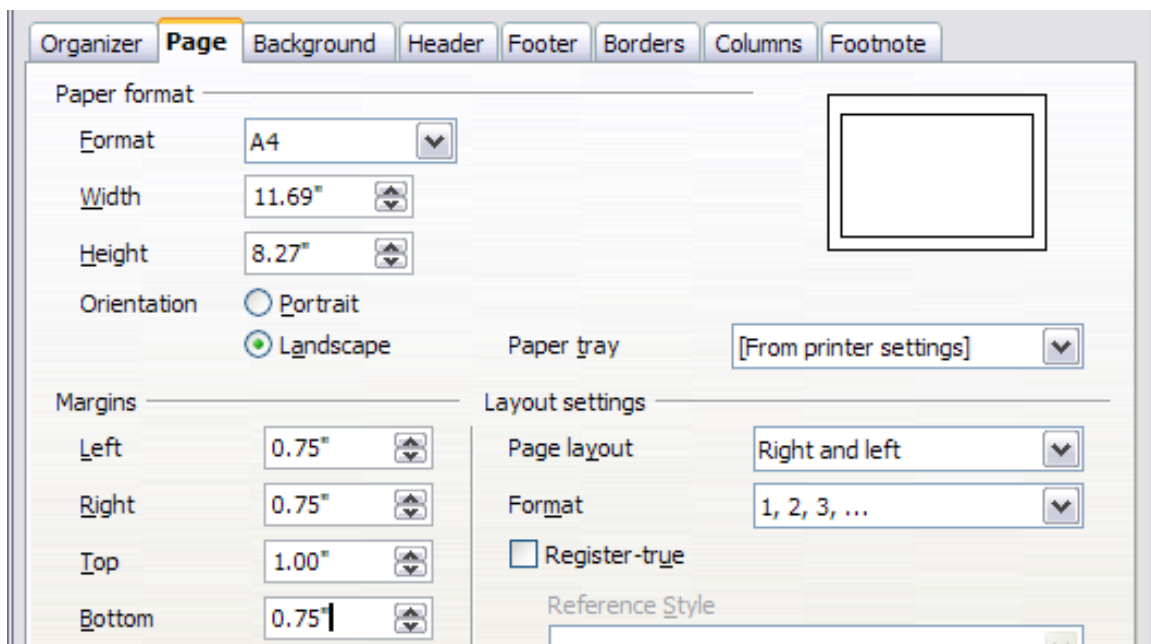


Figure 6: Set orientation and margins for a landscape page

- 5) Click **OK** to save the changes.

Inserting a landscape page into a portrait document

Now that you have defined the *Landscape* page style, here is how to apply it.

- 1) Position the cursor in the paragraph or table at the start of the page that is to be set to landscape. Right-click and choose **Paragraph** or **Table**, respectively, in the pop-up menu.
- 2) On the *Text Flow* page of the Paragraph dialog box (Figure 7) or the Table Format dialog box (Figure 8), select **Insert** (or **Break** for a table) and **With Page Style**. Set the *Page Style* property to **Landscape**. Click **OK** to close the dialog box and to apply the new page style.

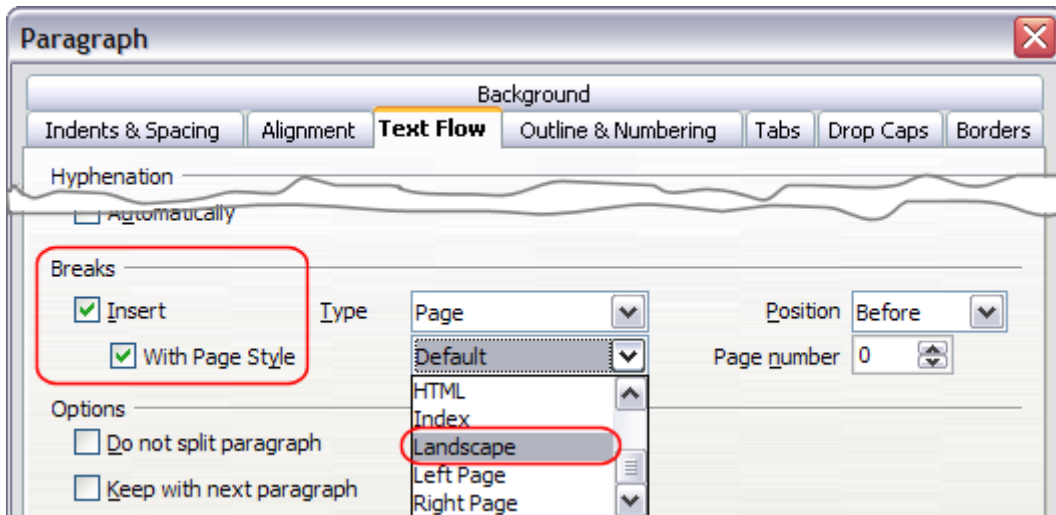


Figure 7: Specifying a page break before a paragraph

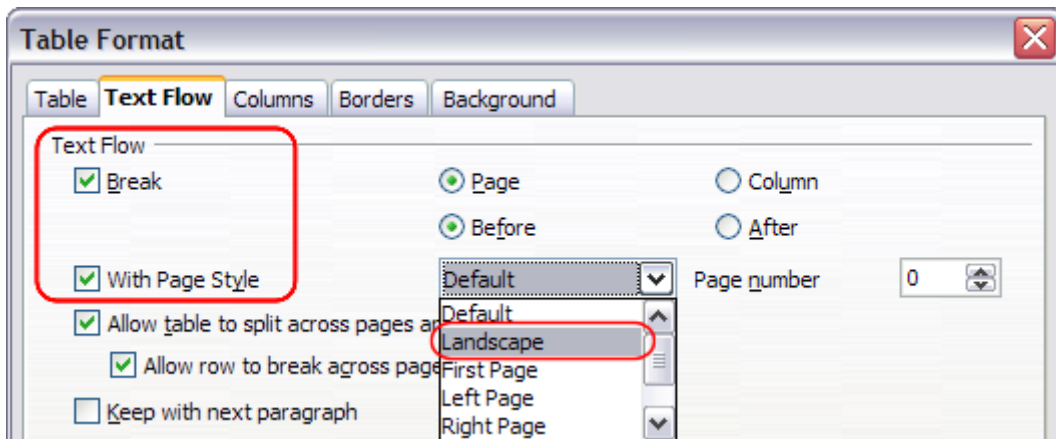


Figure 8: Specifying a page break before a table

- 3) Position the cursor in the paragraph or table where the page is to return to portrait orientation and change the paragraph properties or table properties so that *With Page Style* is the portrait page style that was used before the *Landscape* page style.
- 4) Click **OK** to return to the previous portrait page style.

Tip

If you need the headers or footers on the landscape pages to be in portrait orientation, see "Portrait headers on landscape pages" on page 32.

Adding title pages

LibreOffice Writer provides a fast and convenient way to add one or more title pages to a document and optionally to restart the page number at 1 for the body of the document.

To begin, choose **Format > Title Page** from the menu bar. On the Title Pages dialog box (Figure 9), you can make a variety of choices.

- Convert existing pages to title pages, or insert new title pages.
- How many pages to convert or insert.
- Where those pages are located.
- If and where to restart page numbering, and what number to start with.
- What page style to use for the title page.

Using this technique, you could insert several “title pages” at different points in your document, for example to add decorative pages between chapters as well as title, copyright, and other pages at the beginning of a book.

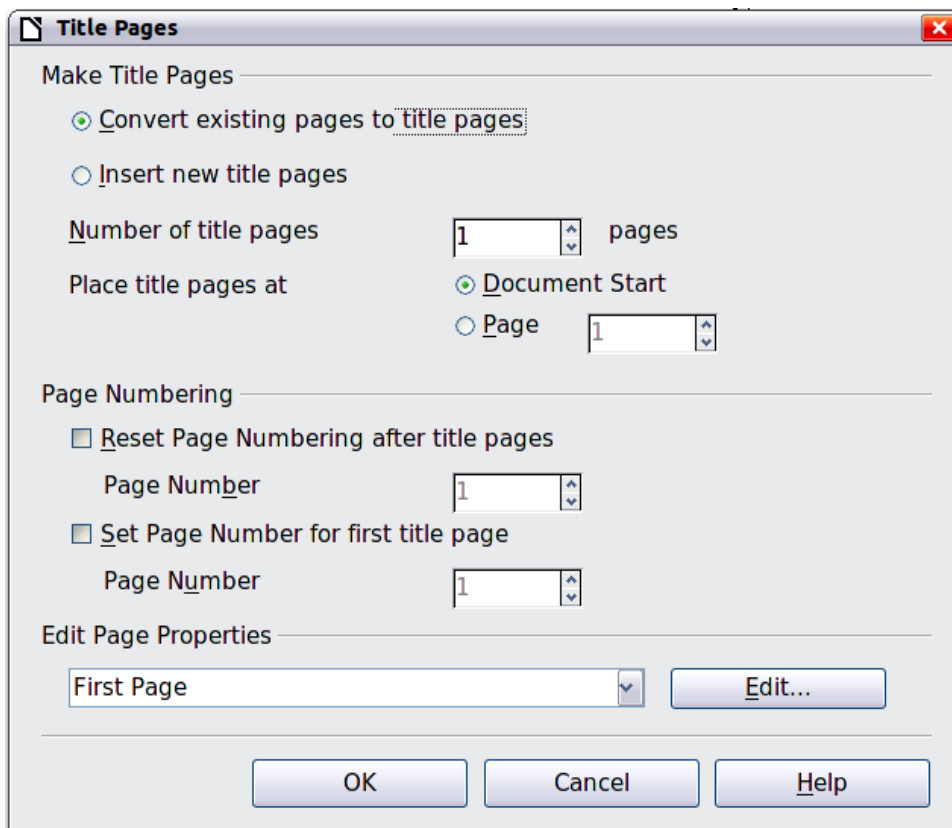


Figure 9: Adding title pages to a document

Changing page margins

You can change page margins in two ways:

- Using the page rulers—quick and easy, but does not have fine control.
- Using the Page Style dialog box—can specify margins to two (fractional) decimal places.

Note

If you change the margins using the rulers, the new margins affect the page style and will be shown in the Page Style dialog box the next time you open it.

To change margins using the rulers:

- 1) The shaded sections of the rulers are the margins (see Figure 10). Put the mouse cursor over the line between the gray and white sections. The pointer turns into a double-headed arrow.
- 2) Hold down the left mouse button and drag the mouse to move the margin.

Tip

The small arrows on the ruler are used for indenting paragraphs. They are often in the same place as the page margins, so you need to be careful to move the margin marker, not the arrows. Place the mouse pointer between the arrows and, when the pointer turns into a double-headed arrow, you can move the margin (the indent arrows will move with it).

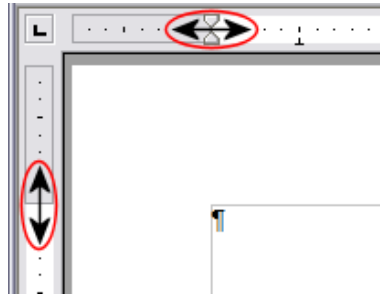


Figure 10: Moving the margins

To change margins using the Page Style dialog box (Figure 6):

- 1) Right-click anywhere on the page and select **Page** from the pop-up menu.
- 2) On the *Page* page of the dialog box, type the required distances in the *Margins* boxes.

Using columns to define the page layout

You can use columns for page layout in these ways:

- Define the number of columns and their layout on a page, using page styles.
- Change the number of columns for existing text.

Defining the columns on a page

It is a good idea to define your basic page style (such as *Default*) with the most common layout to be used in your document, either single-column or multiple-column. You can then either define extra page styles for pages with different numbers of columns or use sections (described in “Using sections for page layout” starting on page 23) for pages or parts of pages with different numbers of columns.

To define the number of columns on a page:

- 1) Choose **Format > Columns** to go to the Columns dialog box, or go to the *Columns* page of the Page Style dialog box (see Figure 11),
- 2) In the *Settings* area, choose the number of columns and specify any spacing between the columns and whether you want a vertical separator line to appear between the columns. You can use one of Writer’s predefined column layouts, or you can create a customized column layout. The preview box, located to the right of the *Settings* area, shows how the column layout will look.
- 3) Notice the *Apply to* box on the right-hand side of the dialog box. In this case, the changes are being applied to the *Default* page style.
- 4) Click **OK** to save the changes.

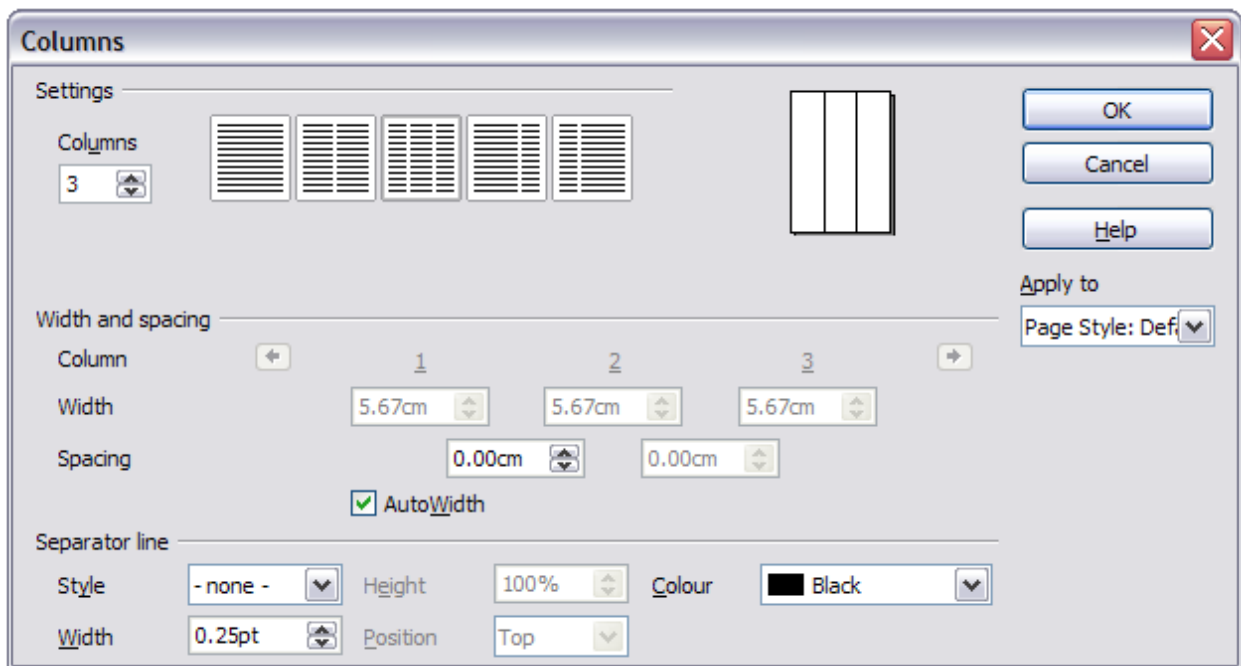


Figure 11: Defining the number of columns on a page

Specifying the number of columns

The *Settings* area displays five predefined column layouts. To use one of them, click the desired layout. If you prefer to create a customized column layout, you must specify the number of columns that you want by entering the desired number in the *Columns* box.

Formatting column width and spacing

To create evenly-spaced columns that are all the same width, select the **AutoWidth** option in the *Width and spacing* area.

To customize the width and spacing of the columns, follow these steps:

- 1) In the *Width and spacing* area, deselect the **AutoWidth** option.
- 2) On the *Width* line, enter a width for each column.
- 3) On the *Spacing* line, enter the amount of space that you want between each pair of columns.

If you specify more than three columns, use the arrow keys on the *Column* line to scroll among the columns.

Formatting separator lines

To display separator lines between the columns:

- 1) Using the *Style* drop-down list, select the line style from the three styles available.
- 2) Using the *Width* control, select the width of line to use, settable from 0.25pt to 9.0pt. (1 pt = 1 point = 1/12 pica = 1/72 inch = 127/360 mm = 0.3527 mm.)
- 3) Using the *Height* control, select the height of line required, as a percentage of the column height. Variable from 25% to 100%.
- 4) If you entered a height of less than 100%, use the *Position* drop-down list to select a vertical alignment for the separator lines. The vertical-positioning options are: **Top**, **Centered**, or **Bottom**.
- 5) The line color can be selected from the *Color* drop-down list's palette of colors.

Reverting to a single-column layout

To revert to a single-column layout for the page style, go to the *Settings* area and either reset the number in the *Columns* box to **1** or click the single-column layout icon.

Changing the number of columns for existing text

You might want some parts of a page to have one column and other parts of the page to have two or more columns. For example, you might have a page-width headline over a three-column news story.

You can create columns and then type or paste text into them, or you can select some existing text and change the number of columns for displaying it.

When you select text and change the number of columns for that text (**Format > Columns**), Writer turns the selected text into a *section*, as described in “Using sections for page layout” on page 23.

Figure 12 shows the Columns dialog box for a selection. The *Apply to* box on the right-hand side has **Selection** highlighted and an extra option (**Evenly distribute contents to all columns**) appears in the upper left-hand part of the dialog box.

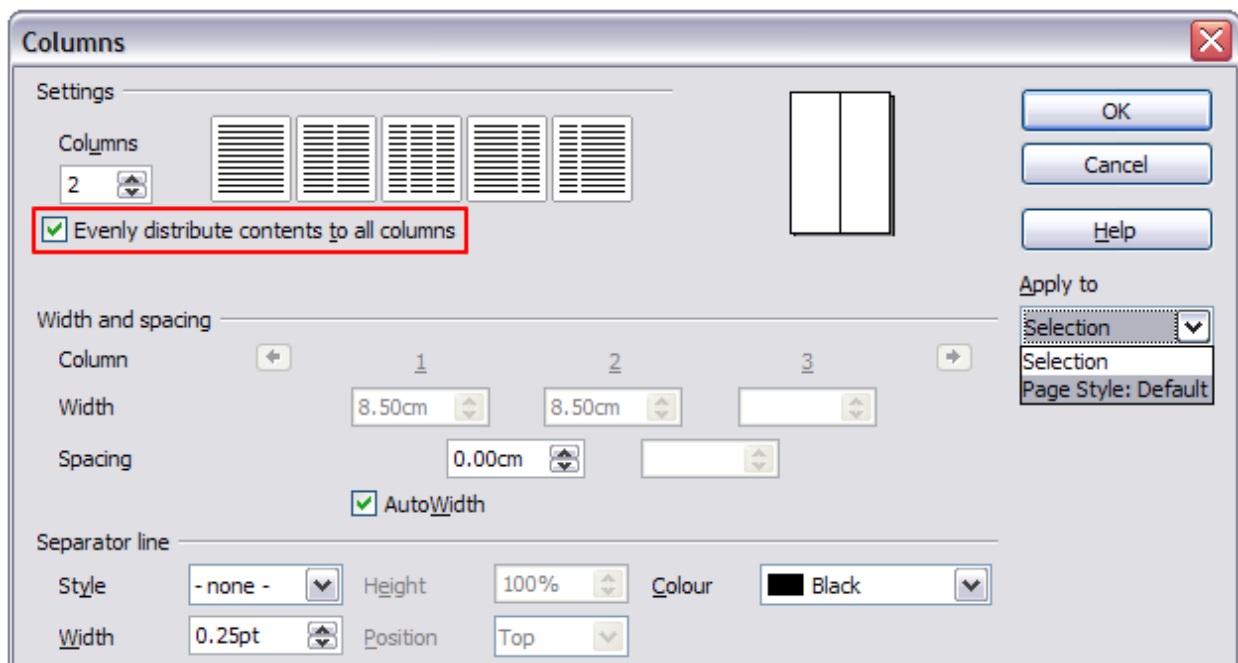


Figure 12: Specifying columns for a selection

Tip

You cannot select text on a two-column formatted page and change it to a single column using this method. Instead, you need to define a single-column page and then select the text you want to be in a two-column section on that page.

Distributing text across columns

As you add text to the section, you will see that the text flows from one column to the next. You can distribute text across the columns in one of two ways:

Evenly—Writer adjusts the length of the columns to the amount of text, so that all the columns are approximately the same height. As you add or delete text, the columns readjust.

Newspaper-style—Writer fills the columns one at a time, beginning with the first column. The last column may be shorter than the others.

To distribute text evenly, select the **Evenly distribute contents to all columns** option in the *Settings* area. Deselect this option if you want to distribute text newspaper-style.

Tip

Choose **View > Nonprinting Characters** (or press *Ctrl+F10*) to display end of paragraph markers (¶). Often, unexpected behavior of columns is due to extra paragraphs that are normally invisible to the user but are taking up space.

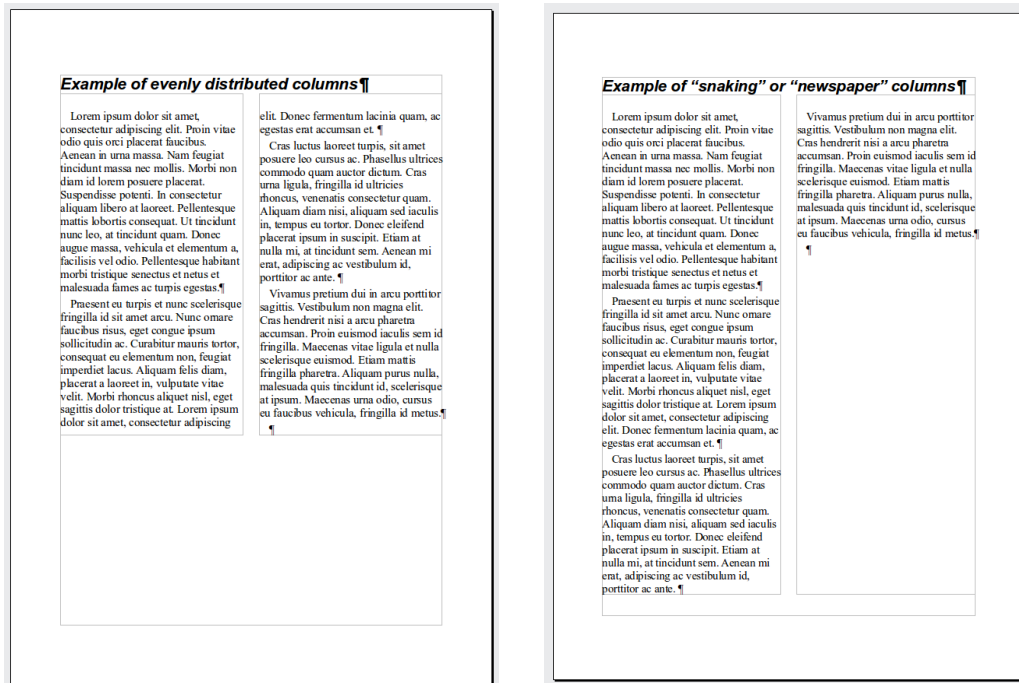


Figure 13: (Left) Evenly distributed columns; (Right) Newspaper-style columns.

Using frames for page layout

Frames can be very useful when producing a newsletter or other layout-intensive documents. Frames can contain text, tables, multiple columns, pictures, and other objects.

Use frames when you need to:

- Position something in a particular place on a page, for example, a logo or a “stop press” news box in one corner of a page.
- Allow text on one page to continue on another page, somewhere more distant than the next one, by linking the content of one frame to another so the contents flow between them as you edit the text.
- Wrap text around an object, such as a photograph.

Because LibreOffice does not allow you to define page styles with recurring frames, consider doing some quick sketches of the basic page layouts you need, indicating the approximate positions of different frames and their purposes. Try to keep the number of different page layouts as low as possible in order to avoid chaos in your design.

Pay special attention to the positioning of frames. Many of the predefined styles default to a center alignment. Although centering all frames looks reasonably good in most cases, it is rarely the best choice.

One of the most visually effective ways to position a frame is to align its left margin with that of the paragraph above it. To achieve this effect, insert the frame in a blank paragraph of the same style as the paragraph above. Then, select **Insert > Frame**; in the *Position* section of the *Type* page, select **From Left** in the *Horizontal* selection box to position the frame exactly where you want it.

You also should think about the type of wrap and the spacing between the frame and text. Instead of cramming a frame close to the text, use the *Wrap* tab to place some white space between them.


You can format frames individually or define and apply frame styles; see Chapter 7, Working with Styles.

Example: Using a frame to center text on a page

Although you can center text horizontally as part of a paragraph style or by using manual formatting, those methods do not work for vertical centering. To center text vertically, you need to place the text in a frame, anchor the frame to a page or a paragraph, and then center the frame vertically on the page. See “Anchoring frames” on page 19.

Creating frames

You can create a frame in several ways, depending on your needs.

- Choose **Insert > Frame** to create an empty frame. The Frame dialog box (Figure 15) appears. You can click **OK** and come back to customize it later, or you can set the frame's characteristics at this stage.
- Select text or a graphic, choose **Insert > Frame**, and click **OK** to create a frame containing the selection. The selected text is automatically deleted from the normal text flow and inserted into the frame, and the Frame dialog box appears.
- Insert a picture or other object by selecting **Insert > Picture > From file** or **Insert > Object > [type of object]** to start the process to insert a picture or object. The item inserted automatically appears in a frame, but the Frame dialog box does not appear.
- Use the **Insert Frame Manually**  button on the Insert toolbar (go to **View > Toolbars > Insert** to display it), select the number of frames in the drop-down menu, and drag the mouse to draw the frame (the mouse cursor has changed to a plus (+) symbol).

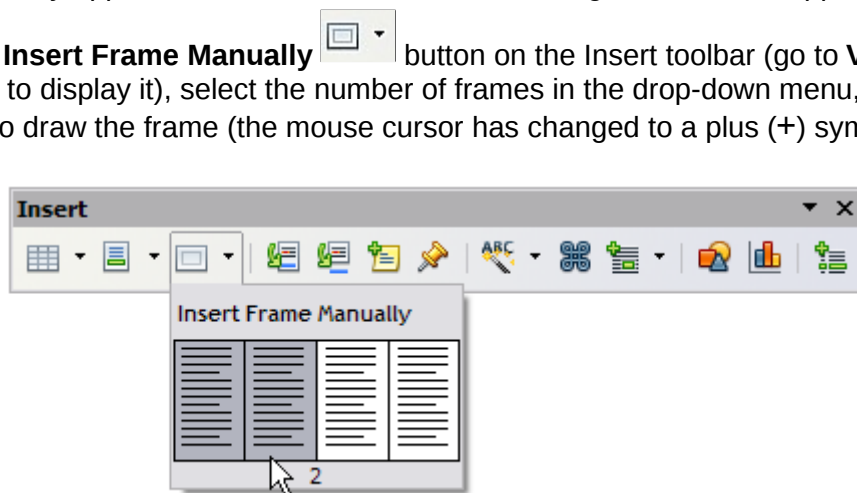
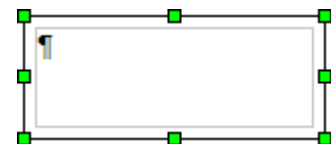


Figure 14: Using an icon on the Insert toolbar to create a frame

When you release the mouse button, a box appears where the cursor is located in the document. This box represents the frame: an area isolated from the main document.

To add content to a frame, first deselect the frame by clicking somewhere else on the page. Then, click inside the frame so that the cursor shifts its focus there. Now add content just like you would on the main page. When you are done, deselect the frame.



Moving, resizing, and changing frame attributes

When an object is added to Writer, it is automatically enclosed in a frame of a predetermined type. The frame sets how the object is placed on the page, as well as how it interacts with other elements in the document. You can edit the frame by modifying the frame style it uses or by using a manual override when a frame is added to the document. Frame styles are discussed in Chapter 7, Working with Styles.

To change the size or location of a frame, first select the frame, then use either the mouse or the Frame dialog box (Figure 15). Using the mouse is faster but less accurate. You might want to use the mouse for gross layout and the dialog box for fine-tuning.

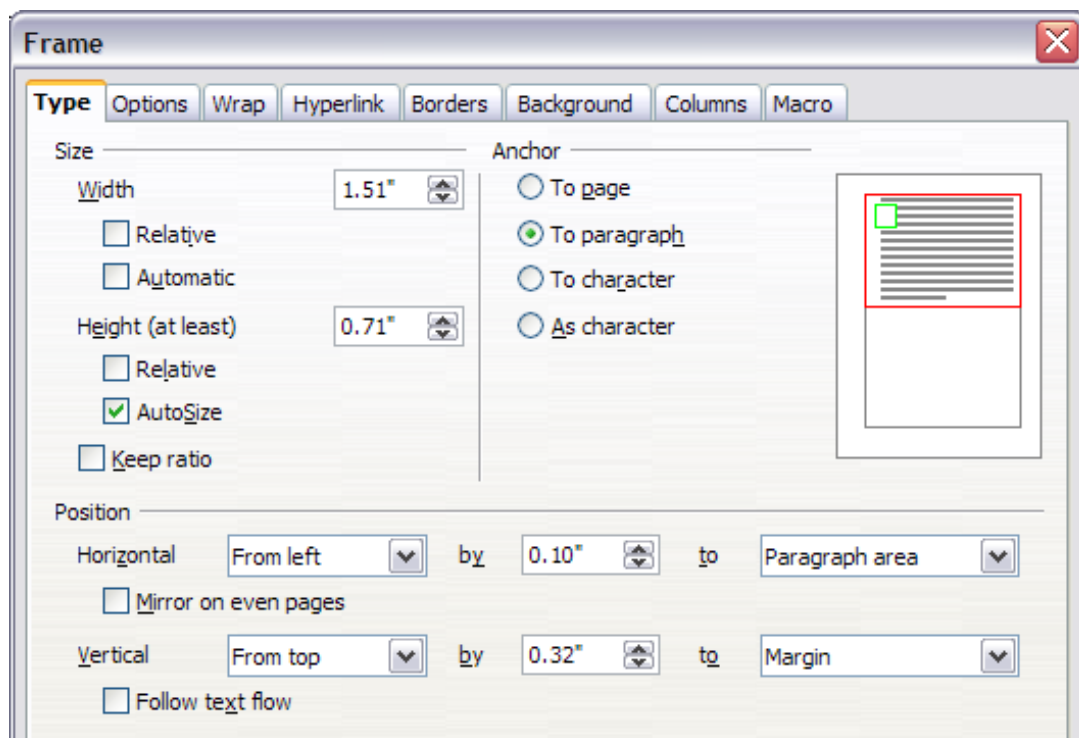


Figure 15: Frame dialog box

You can resize the frame manually (by clicking on the green squares and dragging to the appropriate size) or start adding content to it (the frame will resize automatically if, for example, you add a large picture to it) or go back to the Frame dialog box and set the size and other characteristics.

To change the location of the frame using the mouse, drag and drop one of the edges or put the cursor anywhere within the frame. (The I-bar cursor changes to a four-headed arrow when properly positioned for a drag-and-drop move.)

To change the size of the frame, drag one of the handles. Drag a handle on one of the sides to enlarge or reduce the text frame in one dimension only; drag a corner handle to enlarge or reduce it in both dimensions.

These resizing actions distort the proportions of the frame. Holding down the *Shift* key while dragging one of the handles makes the frame keep the same proportions.

You can open the Frame dialog box at any time by selecting the frame, right-clicking, and choosing **Frame** from the pop-up menu.

To remove the default border on a newly created frame, open the Frame dialog box, go to the *Borders* page, and under *Line Style*, select **None**. Alternatively, you can assign a borderless style to the frame; see the Chapter 7, Working with Styles, for information on frame styles.

Tip

Do not confuse a frame's border with the text boundaries that are made visible using the View menu (by selecting **View > Text Boundaries**).

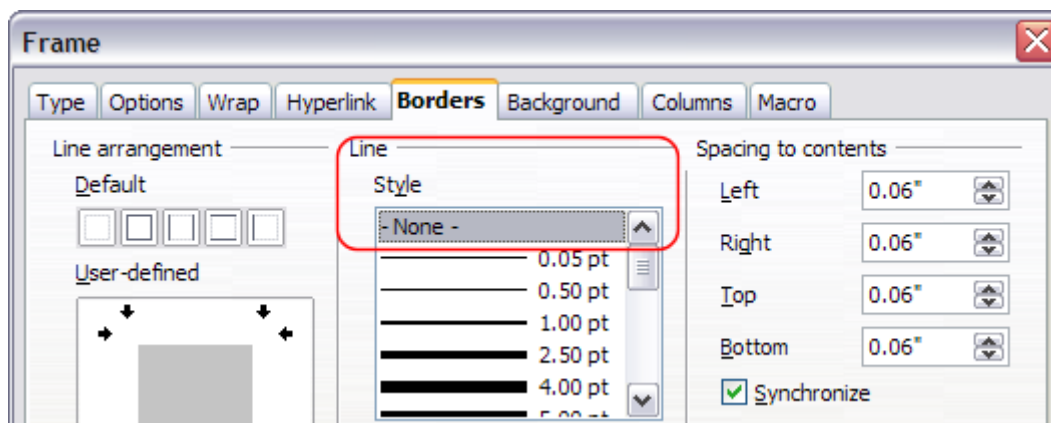


Figure 16: Removing the border from a frame

Anchoring frames

Using the Frame dialog box (or by right-clicking and pointing to **Anchor**), you can anchor a frame to a page, paragraph, or character, or you can anchor it as a character.

To Page

The frame keeps the same position in relation to the page margins. It does not move as you add or delete text. This method is useful when the frame does not need to be visually associated with a particular piece of text. It is often used when producing newsletters or other documents that are very layout-intensive. This method is also used to center text on a page.

To Paragraph

The frame is associated with a paragraph and moves with the paragraph. It may be placed in the margin or another location. This method is useful as an alternative to a table for placing icons beside paragraphs. It is also used to center text on a page in documents which will be used in a master document (frames anchored to pages will disappear from the master document).

To Character

The frame is associated with a character but is not in the text sequence. It moves with the paragraph but may be placed in the margin or another location. This method is similar to anchoring to a paragraph.

As Character

The frame is placed in the document like any other character and, therefore, affects the height of the text line and the line break. The frame moves with the paragraph as you add or delete text before the paragraph. This method is useful for adding a small icon in sequence in a sentence. It is also the best method for anchoring a graphic to an empty paragraph so it does not move around the page in unexpected ways.


Linking frames

You can link frames to each other even when they are on different pages of a document. The contents will automatically flow from one to the next. This technique is very useful when designing newsletters, where articles may need to be continued on a different page.

Note

You cannot link from a frame to more than one other frame.

To link one frame to another:

- 1) Select the frame to be linked from.
- 2) Click the **Link Frames** icon  on the object bar.
- 3) Click the next frame in the series (which must be empty).

When a linked frame is selected, any existing links are indicated by a faint connecting line, as shown in Figure 17.

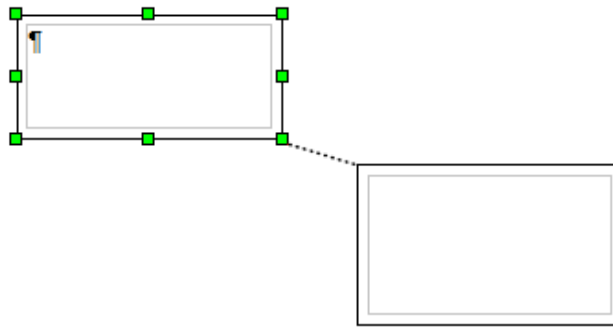


Figure 17: Linked frames

The height of a frame that is being linked from is fixed; you can change this height manually or by using the Frame dialog box, but it does not automatically adjust to the size of the contents (that is, the AutoHeight attribute is disabled). Only the last frame of a chain can adapt its height to the content.

The *Options* page of the Frame dialog box (Figure 18) shows the names of the selected frame and any frames it is linked to or from. You can change this information here. On this page, you can also select options to protect the contents, position, and size of the frame.

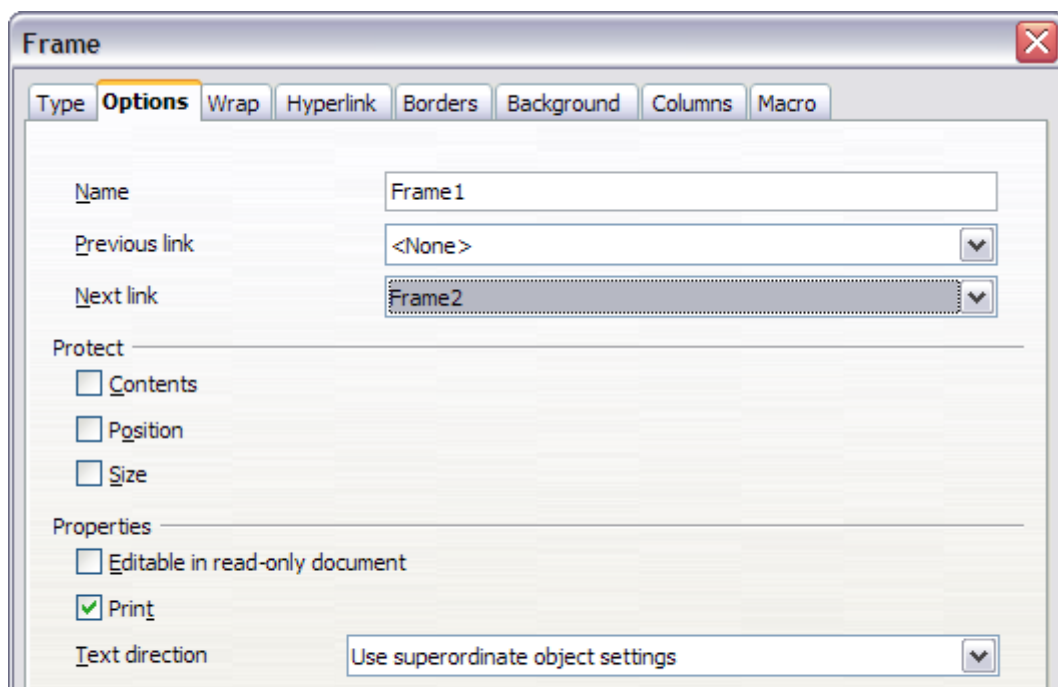


Figure 18: Options page of the Frame dialog box

On the *Hyperlink* page (Figure 19), you can specify the file for the hyperlink to open. This file can be on your machine, a network, or the Internet.

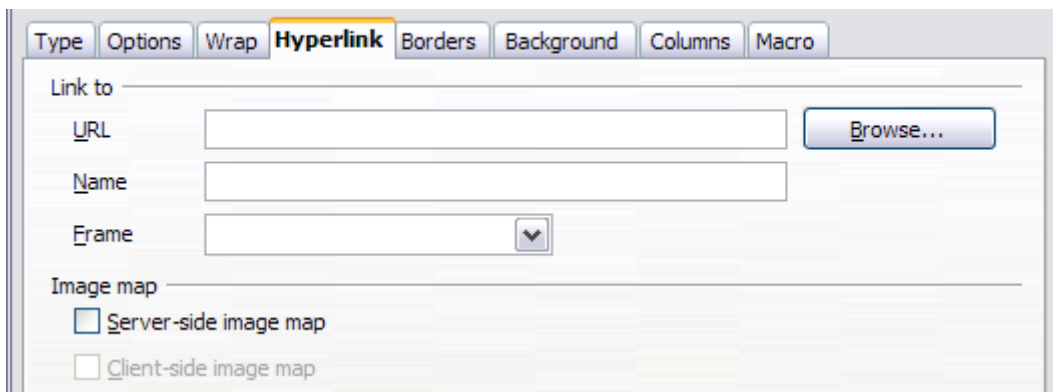


Figure 19: Hyperlink page of the Frame dialog box

The *Wrap*, *Borders*, *Background*, *Columns*, and *Macro* pages of the Frame dialog box are the same as those for frame styles. Refer to the Chapter 7, Working with Styles, for details.

Using tables for page layout

Writer's tables can serve several purposes, such as holding data as you might see it in a spreadsheet, lining up material, and creating more complex page layouts. For information about using tables of data, see Chapter 9, Working with Tables.

This topic describes how to achieve some common layouts by using tables.

Example: Creating sideheads using tables

Sideheads and marginal notes are commonly used in documents from resumes to computer user guides. The main body of the text is offset to leave white space (usually on the left-hand side) in which the sideheads or notes are placed. The first paragraph is aligned beside the sidehead, as in Figure 20.

Example of a sidehead	<p>In some cases you may want to put only one or two paragraphs in the table itself and the rest of the text and graphics in ordinary paragraphs (formatted to line up with the paragraphs in the table) so that text and graphics will flow more easily from one page to another when you add or delete material.</p> <p>In other cases, you might put each paragraph in a separate row of the table and allow the table to break between pages.</p>
------------------------------	---

Figure 20: Example of a sidehead

Note

Sideheads can also be created by placing text in a frame using the *Marginalia* frame style, as described in Chapter 7, Working with Styles.

To create a table for use with a sidehead:

- 1) Place the cursor where you want the table to appear and choose **Insert > Table** (*Ctrl+F12*).
- 2) In the Insert Table dialog box, define a one-row, two-column table with no border and no heading. Click **OK** to create the table.

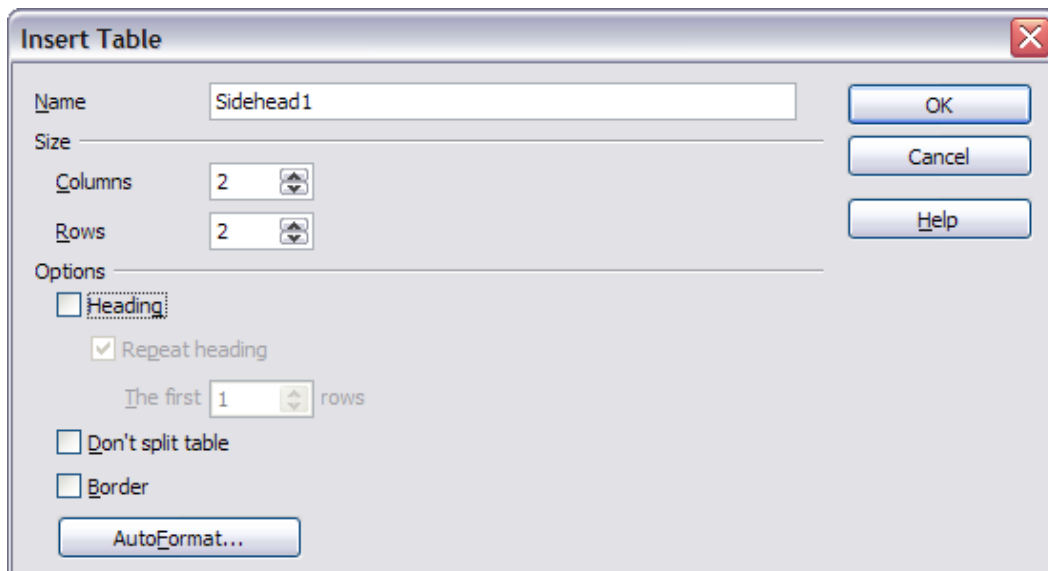


Figure 21: Defining a two-column borderless table with no header

- 3) Right-click on the table and choose **Table** from the pop-up menu. On the *Columns* page of the Table Format dialog box, make the columns the required width.

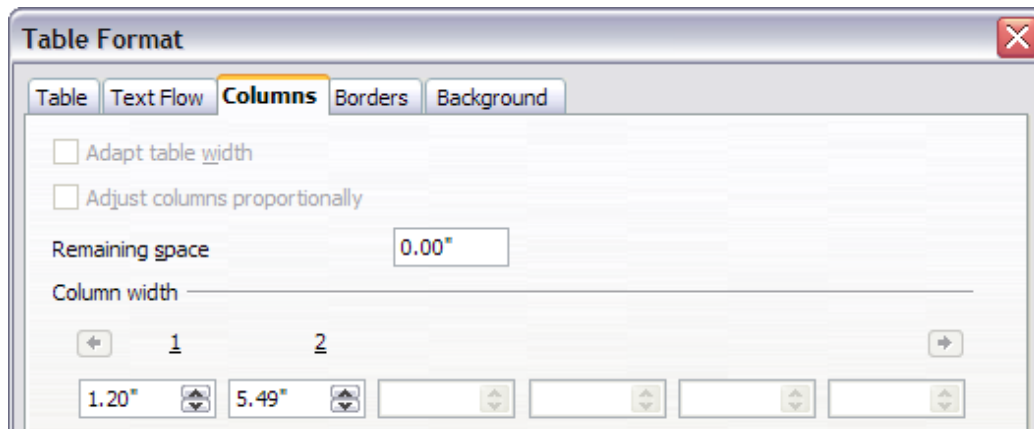


Figure 22: Defining a two-column table to line up with text offset at 1.2 inches

- 4) On the *Table* page of the Table Format dialog box (Figure 23), in the *Spacing* section, make the *Above* and *Below* values the same as the *Top* and *Bottom* spacing you have defined for ordinary paragraphs of text. Click **OK** to save your settings.

Tip

To check the top and bottom spacing for ordinary paragraphs:

- 1) Position the cursor in a paragraph and press *F11* (unless the Styles and Formatting window is already open). Check that the Styles and Formatting window shows paragraph styles (top left button).
- 2) The current style should be highlighted. If no paragraph style is highlighted, select **All Styles** in the bottom drop-down list. Right-click on it and select **Modify** from the pop-up list.
- 3) Go to the *Indents & Spacing* page and look in the *Spacing* area for the values in *Above paragraph* and *Below paragraph*.

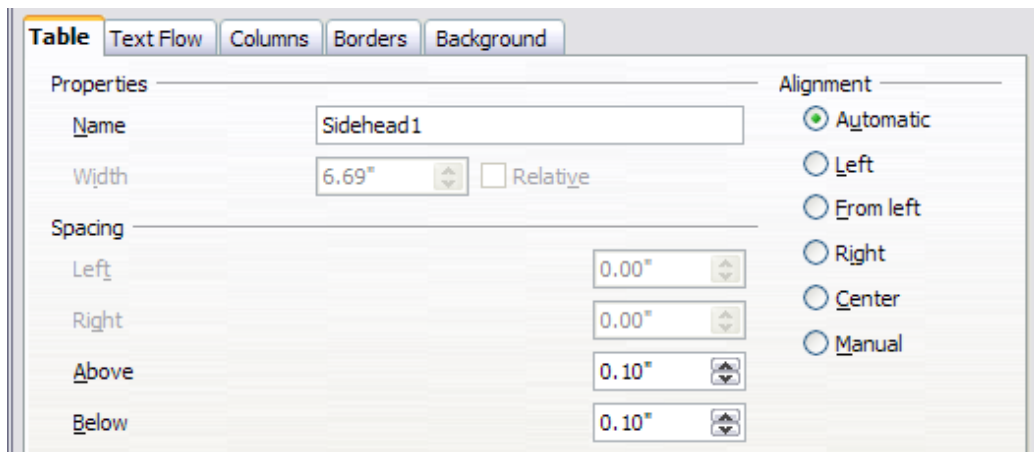


Figure 23: Defining the space above and below a table

You may also want to turn off number recognition so that Writer will not try to format numbers if you want them to be plain text. To turn number recognition off:

- 1) Right-click in the table and then click **Number Format** on the pop-up menu.
- 2) On the Number Format dialog box, make sure the *Category* is set to **Text**. Click **OK**.

Tip

If you use this table format often, you may want to save it as AutoText, as described in Chapter 3, Working with Text. Select the table (not just the contents) to assign the shortcut.

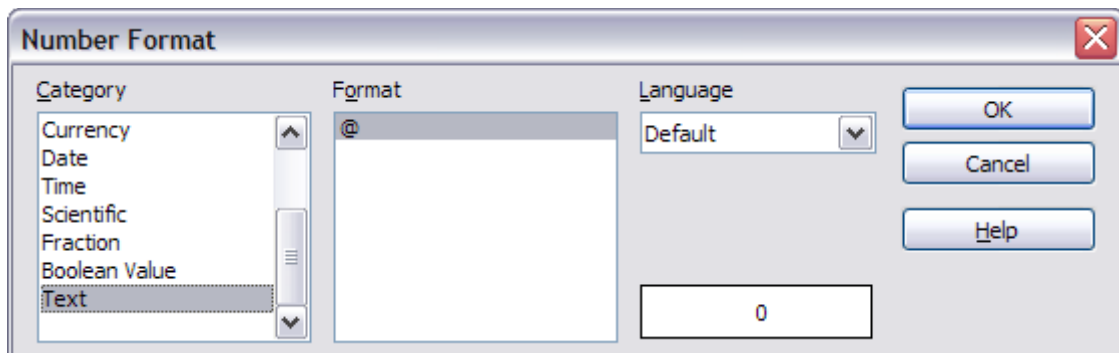


Figure 24: Setting number format to Text

Using sections for page layout

A section is a block of text that has special attributes and formatting. You can use sections to:

- Write-protect text
- Hide text
- Dynamically insert the contents of another document
- Add columns, margin indents, a background color, or a background graphic to a portion of your document
- Customize the footnotes and endnotes for a portion of your document

Creating sections

To create a section:

- 1) Place the cursor at the point in your document where you want to insert the new section. Or, select the text that you want to place in the new section.
- 2) From the main menu, choose **Insert > Section**. The Insert Section dialog box opens.
- 3) Click the **Section** tab, if it is not already displayed.

The Insert Section dialog box has five tabbed pages.

- Use the *Section* page to set the section's attributes.
- Use the *Columns* page to format the section into columns.
- Use the *Indents* page to set indents in the right and left margins of the section.
- Use the *Background* page to add color or a graphic to the section's background.
- Use the *Footnotes/Endnotes* page to customize the section's footnotes and endnotes.

At any time, you can reset a tabbed page to its default settings by clicking the **Reset** button. (Note, however, that you cannot reset the *Section* page. If you wish to undo changes to the *Section* page, you must do so manually.)

Use the *Section* page to set the attributes of the current section.

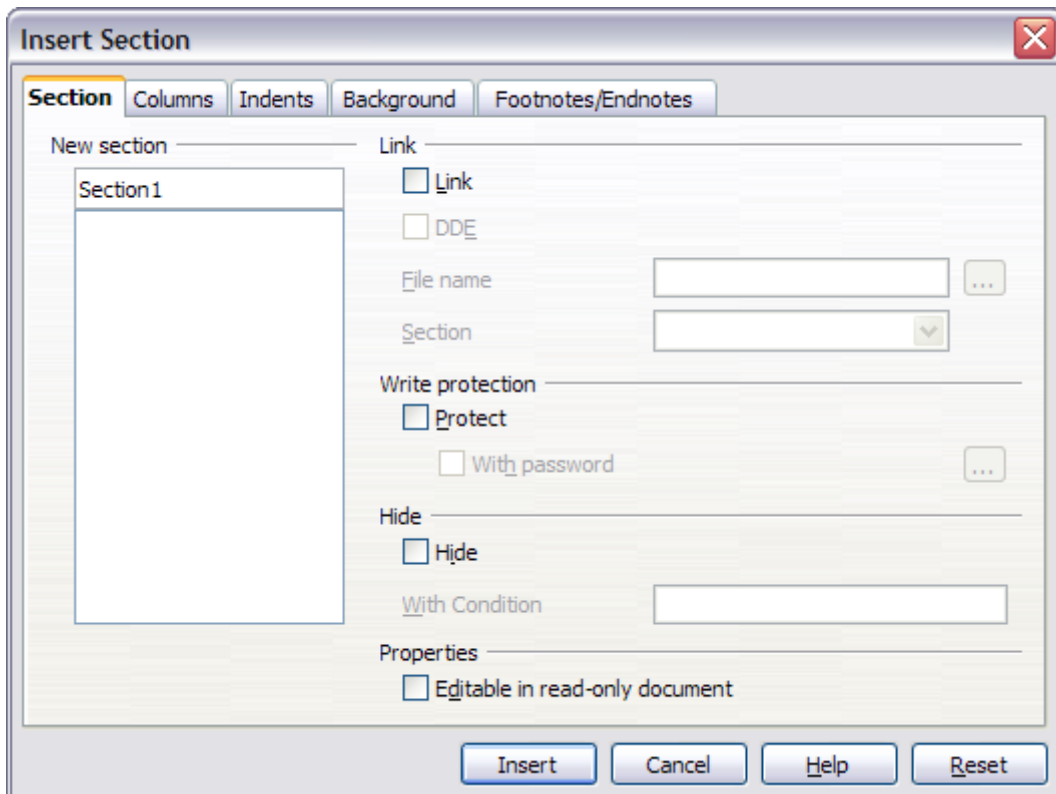


Figure 25: Inserting a section using the Insert Section dialog box

Naming sections

Writer automatically enters a name for the current section in the top box of the *New section* area. To change the name, select it and type over it. The name is displayed in the *Sections* category of the Navigator window. If you give your sections meaningful names, you can navigate to them more easily.

Linking sections

You can insert the contents of another document into the current section and then have Writer update the section whenever the other document is updated. This is called *linking* the section to the other document.

To link the current section to another document, follow these steps:

- 1) In the *Link* area, select the **Link** option.

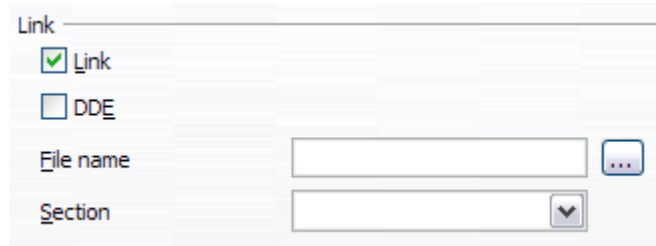


Figure 26: Linking sections

- 2) Click the (...) button to the right of the *File name* field. The Insert dialog box opens.
- 3) Find and select the document you want to insert and then click the **Insert** button. The Insert dialog box closes and the name of the selected document appears in the *File name* field.
- 4) If you want to insert only a section of the selected document, select the desired section from the *Section* drop-down list.

Note

The section must already exist in the selected document. You cannot create a section in the selected document at this point.

You can update links automatically or manually. See “Updating links” on page 30.

Write-protecting sections

To write-protect the current section so that its contents cannot be edited, select the **Protect** option in the *Write protection* area.

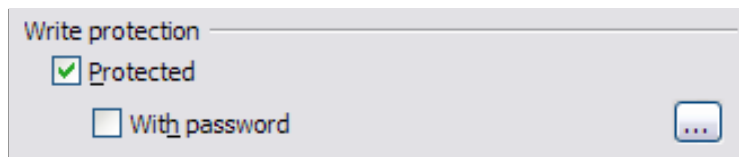


Figure 27: Write-protecting sections

Note

Write-protection protects only the section’s contents, not its attributes or format.

Password-protecting sections

To prevent others from editing the section’s attributes or format, protect the section with a password, as follows:

- 1) Select the **With password** option. The Enter Password dialog box opens.
- 2) Type a password in the *Password* field and then confirm the password by typing it again in the *Confirm* field.
- 3) Click **OK**. The Enter Password dialog box closes. Anyone who tries to edit the section’s attributes or format will be prompted to enter the password.

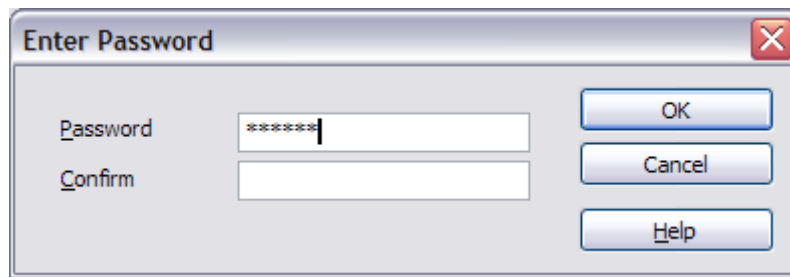


Figure 28: Password-protecting a section

Note

Passwords must contain at least five characters. The **OK** button remains inactive until you have typed five characters.

Hiding sections

You can hide the current section so that it will not be displayed on the screen or printed. You can also specify conditions for hiding the section. For example, you can hide the section only from certain users.

Note

You cannot hide a section if it is the only content on the page or if the section is in a header, footer, footnote, endnote, frame, or table cell.

To hide a section, select the **Hide** option in the *Hide* area.

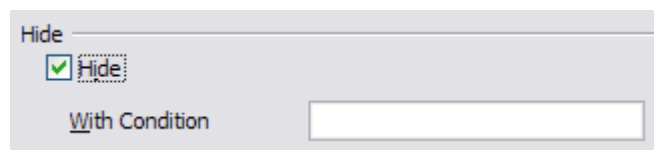


Figure 29: Hiding sections

To hide the section only under certain conditions, enter the desired conditions in the *With Condition* field. The syntax and operators that you use to enter conditions are the same ones that you use to enter formulas. For syntax and a list of operators, see *Writer's* online help under **conditions**.

If the section is write-protected with a password, the password must be entered to hide or reveal the text.

Note

Hiding text is not a secure way to stop someone else reading it. It will stop the casual reader but will not prevent someone who actively wants to find out what you have hidden—even if it is password protected.

Formatting a section into columns

Use the *Columns* page of the *Insert Section* dialog box to format the current section into columns. This page is very similar to the *Columns* dialog box shown in Figure 12 on page 15. Please refer to that topic for details.

Indenting the section from margins

Use the *Indents* page (Figure 30), to set indents in the right and left margins of the current section.

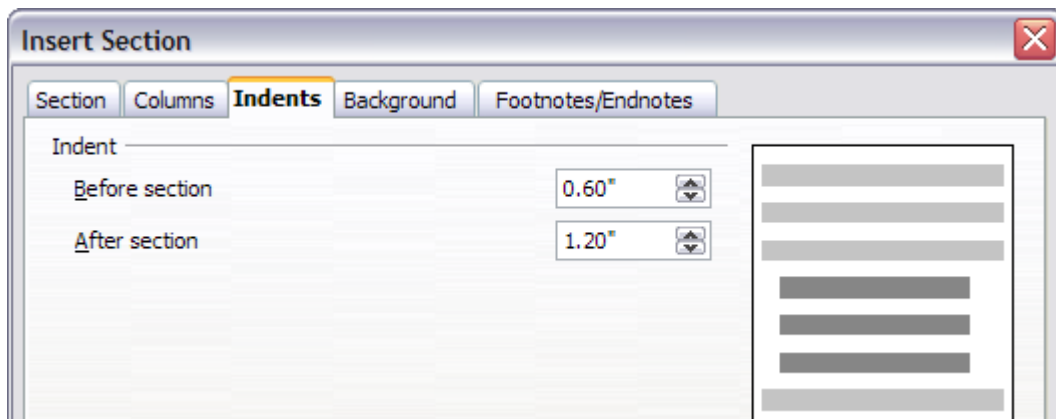


Figure 30: Indenting sections

Enter the desired left-margin indent in the *Before section* box. Enter the desired right-margin indent in the *After section* box. The preview box on the right-hand side of the page shows you how the section will look with the indents applied.

Changing the background of the section

Use the *Background* page to add color or a graphic to the background of the current section. This page is similar to the Background pages for paragraphs, frames, tables, and other objects in LibreOffice. For more information, refer to Chapter 7, Working with Styles.

Customizing footnotes and endnotes in a section

Use the *Footnotes/Endnotes* page to customize the current section's footnotes and endnotes.

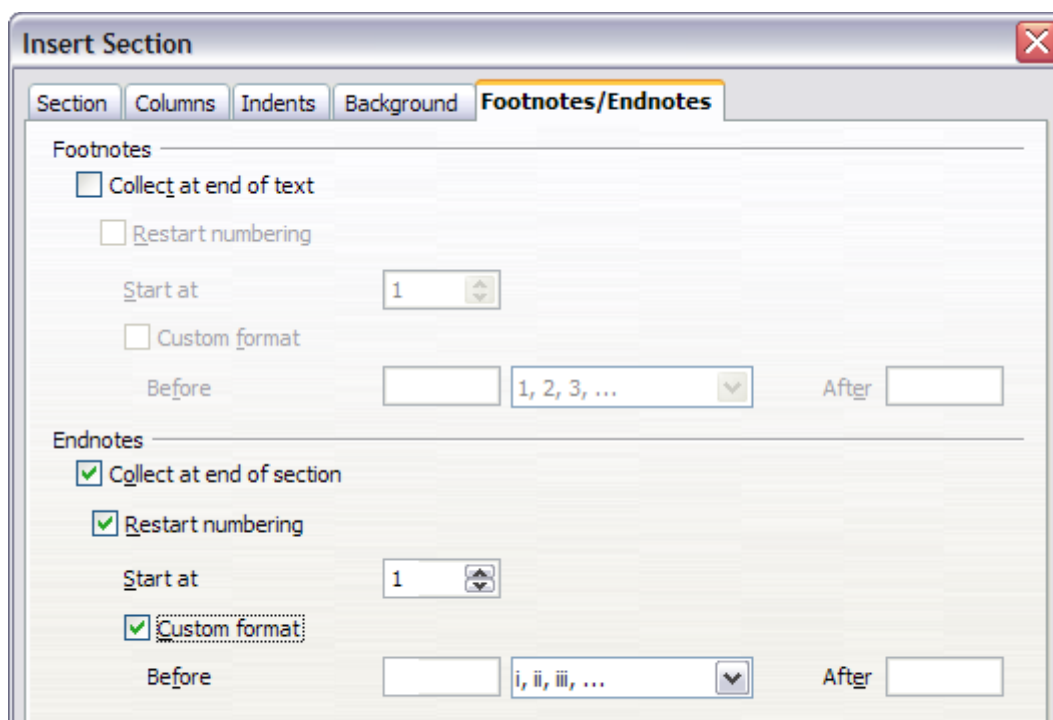


Figure 31: Setting footnotes and endnotes for sections

Customizing footnotes

If you want the current section's footnotes to appear separately from the other footnotes in the document, select the **Collect at end of text** option in the *Footnotes* area.

To number the current section's footnotes separately from the other footnotes in the document, follow these steps:

- 1) In the *Footnotes* area, make sure that the **Collect at end of text** option is selected.
- 2) Select the **Restart numbering** option.
- 3) If you want the section's footnotes to start at a number other than 1, enter the desired starting number in the *Start at* spin box.

To edit the format of the section's footnotes, follow these steps:

- 1) In the *Footnotes* area, make sure that the **Collect at end of text** and **Restart numbering** options are selected.
- 2) Select the **Custom format** option.
- 3) From the drop-down list under and to the right of the **Custom format** option, select a numbering format for the footnotes.
- 4) To add text to the selected numbering format, use the *Before* and *After* fields. For example, if you want the footnote numbers to be preceded by the word "Note" and followed by a colon, fill the *Before* and *After* fields like this:

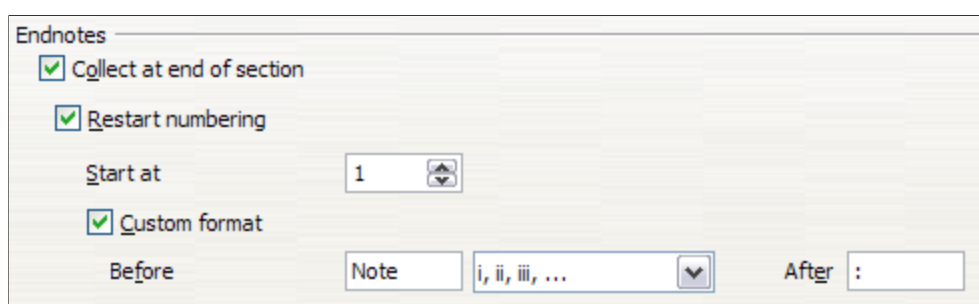


Figure 32: Numbering footnotes for sections

Customizing endnotes

If you want the current section's endnotes to appear at the end of the section rather than at the end of the document, select the **Collect at end of section** option in the *Endnotes* area.

To number the current section's endnotes separately from the other endnotes in the document, follow these steps:

- 1) In the *Endnotes* area, make sure that the **Collect at end of section** option is selected.
- 2) Select the **Restart numbering** option.
- 3) If you want the section's endnotes to start at a number other than 1, enter the desired starting number in the *Start at* spin box.

To edit the format of the section's endnotes, follow these steps:

- 1) In the *Endnotes* area, make sure that the **Collect at end of section** and **Restart numbering** options are selected.
- 2) Select the **Custom format** option.
- 3) From the drop-down list under and to the right of the **Custom format** option, select a numbering format for the endnotes.
- 4) To add text to the selected numbering format, use the *Before* and *After* fields, as shown above for footnotes (Figure 32).

Saving a new section

To save a new section so that it appears in your document, click the **Insert** button. The Insert Section dialog box closes and the new section appears in your document.

Editing and deleting sections

You can edit a section's attributes and formatting, or delete sections, by using **Format > Sections**.

To select the section that you want to edit or delete, follow these steps:

- 1) From the main menu, choose **Format > Sections**. The Edit Sections dialog box opens.
- 2) The name of the current section appears in the *Section* area, in the field above the list box. If you want to edit or delete a different section, click the name of the desired section in the list. The selected section becomes the current section, and its name appears in the field above the list box.

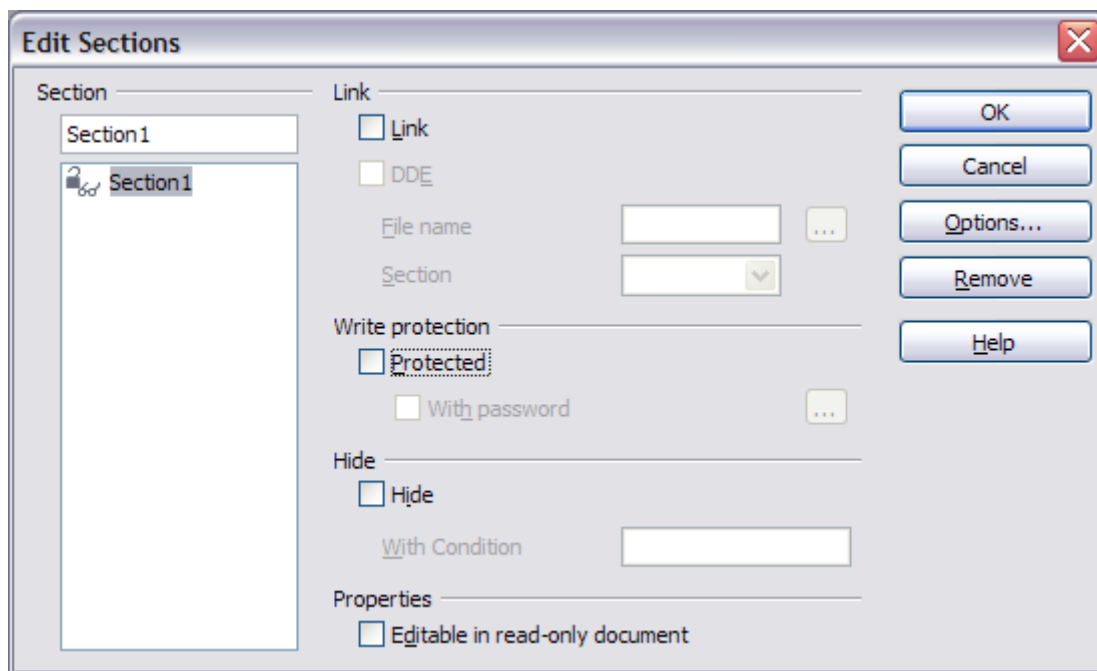


Figure 33: Edit Sections dialog box

Deleting sections

To delete the current section, click the **Remove** button.

Note

Writer will not prompt you to confirm the delete! To undo a delete, click the **Cancel** button.

Editing section attributes

To rename the current section, simply type over its name in the *Section* area.

From the Edit Sections dialog box, you can also edit the current section's link, write-protect, and hide attributes. To learn how to edit these attributes, see:

“Linking sections” on page 25.

“Write-protecting sections” on page 25.

“Hiding sections” on page 26.

Editing the format of a section

To edit the format of the current section, click the **Options** button.

The Options dialog box has four tabbed pages: *Columns*, *Indents*, *Background*, and *Footnotes/Endnotes*. The use of these pages is described earlier in this topic.

To reset a page to its most recently saved settings, click the **Reset** button.

To save your Options settings and return to the Edit Sections dialog box, click **OK**.

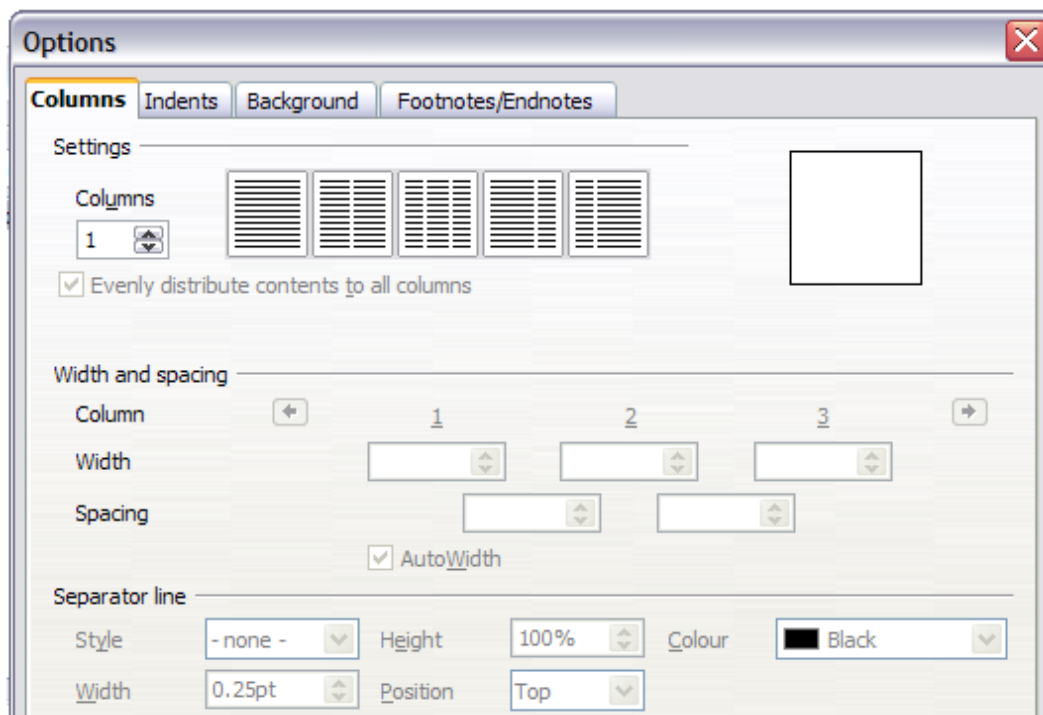


Figure 34: Options dialog box for sections

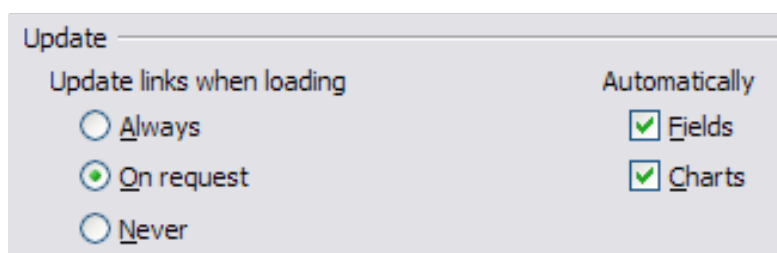
Updating links

You can set Writer to update linked sections automatically, and you can also update links manually.

Updating links automatically

To set Writer to update links without prompting you, or to turn off automatic updating, follow these steps:

- 1) Choose **Tools > Options > LibreOffice Writer > General**. The dialog box displays general text document settings.
- 2) In the *Update* area, under *Update links when loading*, select one of the following three options:



- Select **Always** if you want Writer to update links automatically, without prompting you, whenever you open a document that contains links.
 - Select **On request** if you want Writer to prompt you before updating links.
 - Select **Never** if you do not want Writer to update links.
- 3) Click **OK** to save your settings. The Options dialog box closes.

Updating links manually

To update a link manually:

- 1) Open the document that contains the link.
- 2) Choose **Edit > Links**. The Edit Links dialog box opens.
- 3) The list in the Edit Links dialog box displays the names of all the files that are linked to the current document. Click the file that corresponds to the link that you want to update.
- 4) Click the **Update** button. The most recently saved contents of the linked file appear in the current document.
- 5) To close the Edit Links dialog box, click **Close**.

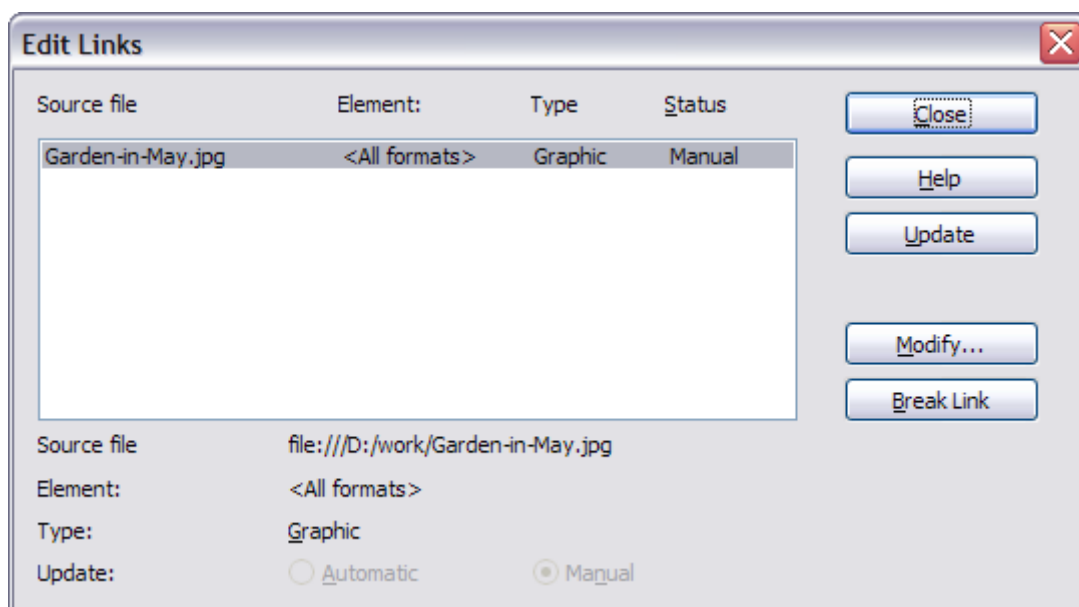


Figure 35: Edit Links dialog box

Creating headers and footers

Headers are portions of a document that always appear at the top of a page; footers appear at the bottom of a page. Typically, headers display the title or chapter name of a document.

In LibreOffice, headers are specified by page styles; therefore, when inserted, all the pages with the same page style will display the same header. Chapter 7 describes how to format a header as part of the page style formatting. For the purpose of this example, we will insert a header in the *Default* pages using manual formatting.

Select from the main menu **Insert > Header > [Page Style]**. The submenu lists the page styles used in your document. In addition, the submenu includes the entry **All**, which activates headers on all the pages of the document regardless of their page style.

For our example, select the **Default** menu item to activate the headers only on the pages that use the *Default* page style. Similarly, to insert a footer, choose **Insert > Footer**.

Caution



The **Insert** menu can also be used for *deleting* a preexisting header or footer for a page style. If that page style has a check mark in front of it, clicking on it opens a message box warning about this and asking whether you want to delete the header or footer for that particular page style.

Depending on which option you choose, an area will appear at the top or bottom of the page. In this area you can enter text and graphics that will appear on every page.

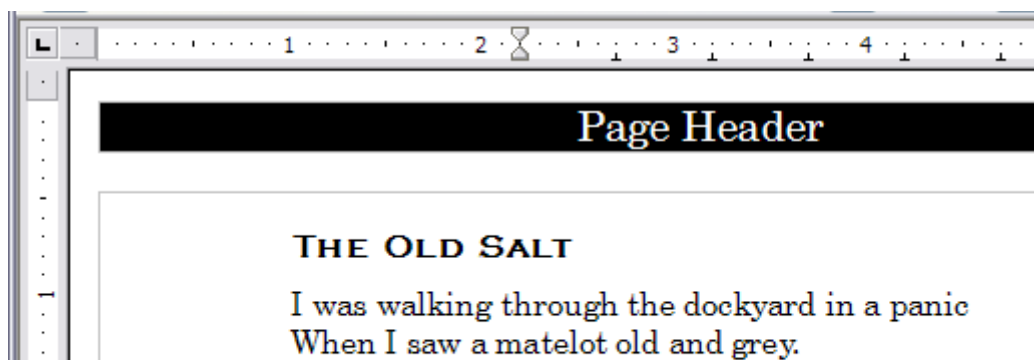


Figure 36. A page with a page header

Items such as document titles, chapter titles, and page numbers, which often go into headers and footers, are best added as fields. That way, if something changes, the headers and footers are all updated automatically.

Fields are covered in Chapter 14, Working with Fields, but one example here may be useful. To insert the document title into the header:

- 1) Select **File > Properties > Description**, enter a title for your document in the *Title* area, and click **OK** to close the dialog box.
- 2) Add a header (**Insert > Header > Default**).
- 3) Place the cursor in the header part of the page.
- 4) Select **Insert > Fields > Title**. The title should appear on a gray background (which does not show when printed and can be turned off).
- 5) To change the title for the whole document, choose **File > Properties > Description**.

Formatting headers and footers

In Writer headers and footers are considered paragraphs and therefore you can format the header or footer text using the same techniques you use for formatting text in the main body of the document.

Tip

You can define styles for headers and footers so that you can quickly obtain a consistent formatting in case you use several page styles. Writer includes three predefined header styles and three footer styles: generic ones, for left pages, and for right pages. You can also add custom header and footer styles.

Portrait headers on landscape pages

When you define a header and footer on a landscape page, they will be aligned with the long side of the page. If your landscape pages are going to be inserted between portrait pages, you might want the headers and footers to be on the short sides of the landscape pages, so the final printed product looks like the contents of the landscape pages have been rotated 90 degrees on portrait pages.

You can set up portrait headers and footers on landscape pages by using a trick involving frames. These are a bit tedious to set up, but once you have done so, you can copy and paste them to other landscape pages. There does not appear to be a way to make this part of the landscape page style.

To set up portrait headers and footers on landscape pages:

- 1) Calculate the required margins so the text area of the landscape page is the same size as the text area on the portrait pages, taking into account the space for headers and footers on the portrait pages.

For example, consider a book which uses the margins shown in the following table. The landscape right and left margins are 1 cm larger than the portrait top and bottom margins, respectively. This difference accounts for the extra space used by the portrait header and footer (0.5 cm for the height of the header or footer and a 0.5 cm gap between the header or footer and the main text).

Portrait page (right page)		Landscape page (right page)	
Top margin	1.5 cm	Right margin	2.5 cm
Bottom margin	1.5 cm	Left margin	2.5 cm
Left (inner) margin	2.8 cm	Top margin	2.8 cm
Right (outer) margin	1.8 cm	Bottom margin	1.8 cm

- 2) Create the *Landscape* page style.
- 3) Measure the distance from the upper and left edges of the page to the upper left-hand corner of the space where you want the footer to appear. Measure the width and length of the space the footer will occupy (to match footers on portrait pages). (See Figure 37.)

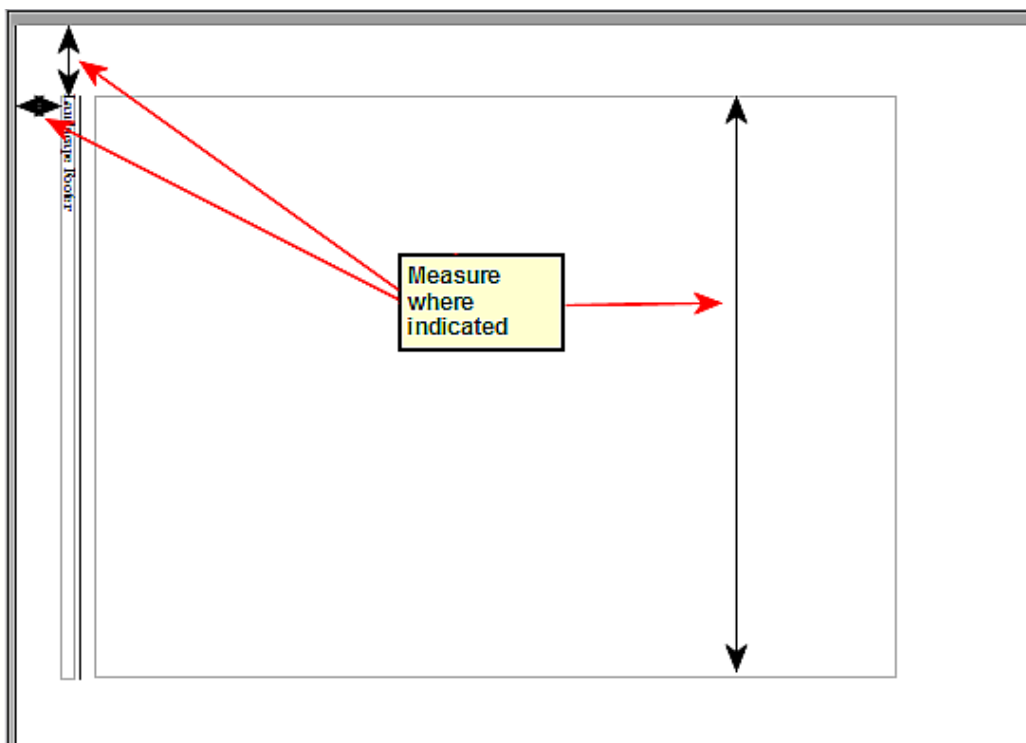


Figure 37: Measuring the location and size of the footer frame

- 4) In a blank paragraph in the text, type the footer text or insert fields such as the page number or the chapter number and name—to match the footer text and fields on the portrait pages. Assign the *Footer* style to this paragraph so the typeface, font size, and tab settings match those of the footers on the portrait pages.
- 5) Select the text (including the fields) you just entered. Choose **Format > Character**. On the Character dialog box, choose the *Position* tab and set *Rotation / scaling* to **270 degrees** (counterclockwise). Click **OK**.

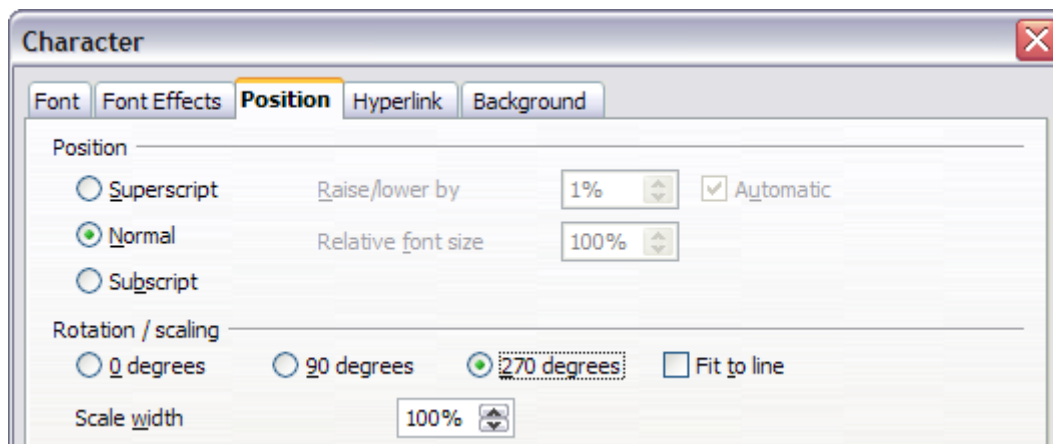


Figure 38: Rotating the footer text 270 degrees

- 6) With the text still selected, choose **Insert > Frame**. In the Frame dialog box, choose the *Type* tab and enter the width, height, and horizontal and vertical position for the footer.

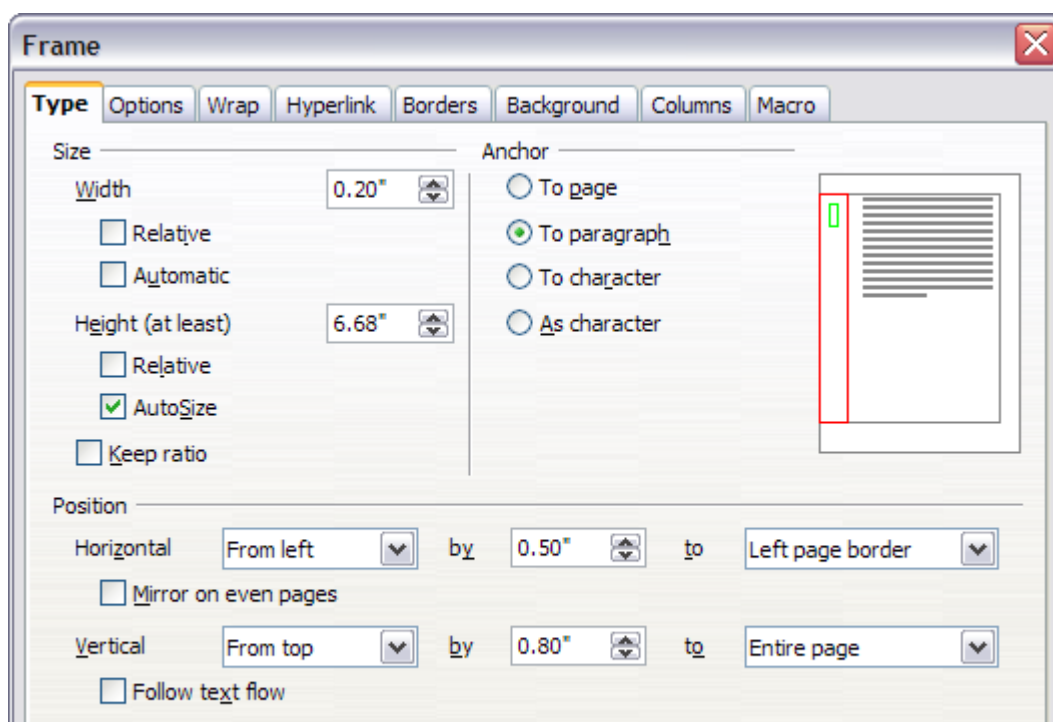


Figure 39: Defining the size and position of the footer frame

- 7) If your footer has a line above the text, as in this book, on the *Borders* page, select a right border and specify the line width and spacing to the frame's contents.
- 8) Click **OK** to save these settings. The footer should now appear in the required position and orientation.

Repeat these steps (using appropriate measurements) to set up a portrait header on the landscape page.

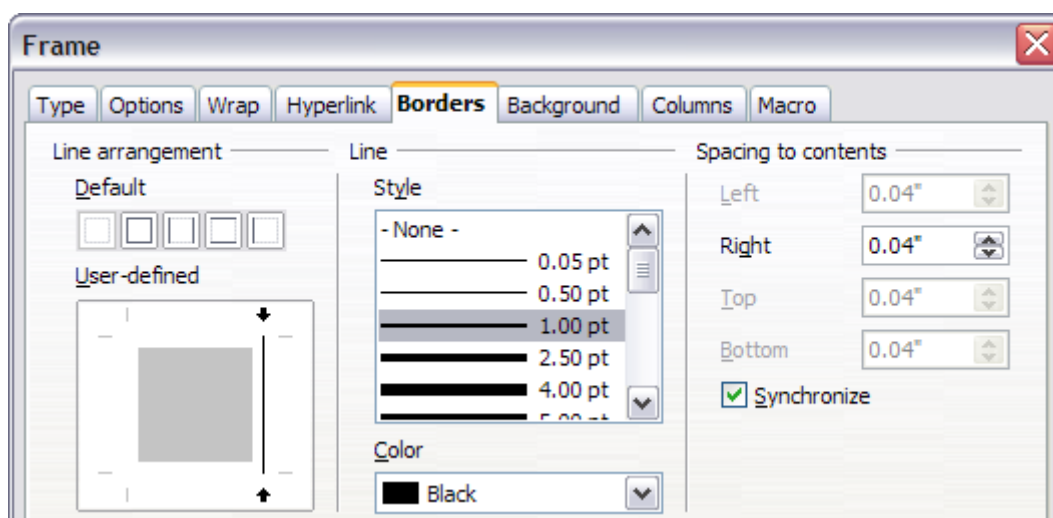


Figure 40: Specifying the border position, line width, and spacing to contents

Numbering pages

This section describes techniques to insert page numbers and related information in a document. Some basic knowledge of page styles, which are fully described in chapters 6 and 7, may be needed to follow some of the examples given.

Preliminaries: fields

LibreOffice uses *fields* to manage page numbers. To insert a page number field, position the cursor where you want to insert the number and choose **Insert > Fields > Page Number**. The page number appears with a gray background. The gray background denotes a field; although it is visible on screen, it is not printed.

Tip

If you wish to turn off the gray background, choose **View > Field Shadings** (or press *Ctrl+F8*).

The page number field always displays the page number for the page where it is placed. If you see the words “Page number” instead of a number, press *Ctrl+F9*. This shortcut key toggles LibreOffice between displaying the field’s *contents* (what the field is for) and the field’s *results* (what the field creates).

Note

For a full introduction to fields, see Chapter 14, Working with Fields.

Preliminaries: insert and format a header

For the purpose of this example, we will insert a header in the Default page style pages using manual formatting. See “Creating headers and footers” on page 31.

Simple page numbering

The simplest case is to have the page number at the top of every page and nothing more. To do this, put the cursor on the header and select **Insert > Fields > Page Number**.

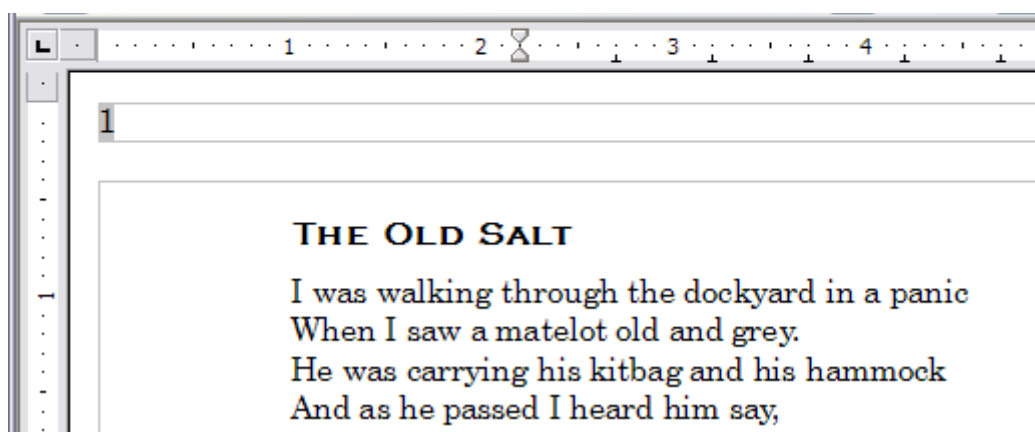


Figure 41: Page number inserted in the header

Now the correct page number appears on every page.

Combining header text and page number

There are a lot of interesting variations that you can apply without further knowledge of page styles. Here are some suggestions:

- Right-align the header to make the page number appear on the top-right.
- Type the word **page** before the page number field so the header reads **page 1, page 2,** and so on. This also requires using the *Page Number* field, discussed earlier (page 35).
- Add the document title so the header reads, for example: **Peter's Favourite Poems**, left justified, and **page x** with right justification, where x is the value of the *Page Number* field. Consider using a (right-aligned) tab to separate the title from the page number.
- LibreOffice also has a *Page Count* field (**Insert > Fields > Page Count**). Using it, you could, for example, have a header that reads **page 2 of 12**.

These variations are all illustrated in Figure 42.

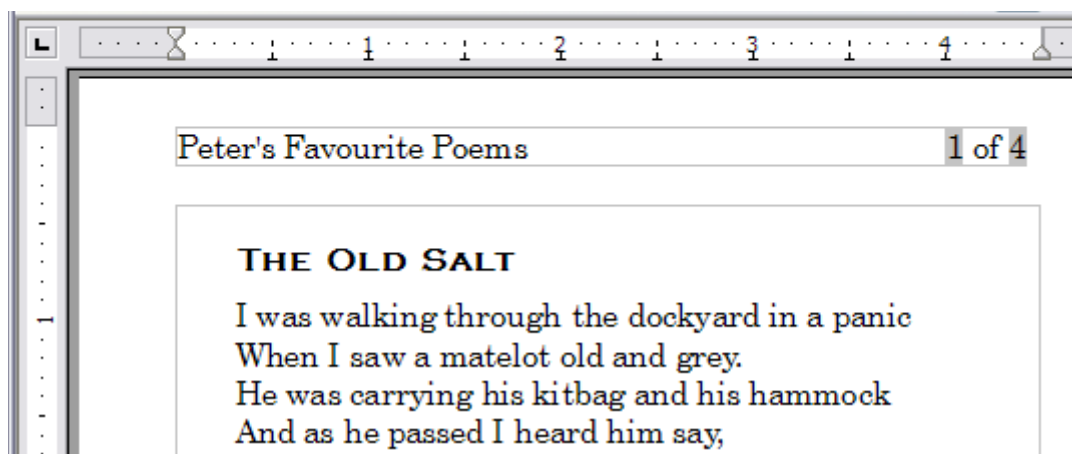


Figure 42: Variations on the simple page numbering method

Changing the number format

Many more variations are possible. For example, you can set the page number to display in Roman numerals. To do that, you could double-click on the page number and select the desired format; however, a better choice is to specify the format of numbers in the page style as explained here.

In the Styles and Formatting window (press *F11* if not already displayed) select the **Page Styles** icon and right-click on the highlighted entry for the current style. Select **Modify**, which opens the Page Style dialog box.

On the Page page of the Page Style dialog box, in the *Layout settings* section, select **i, ii, iii, ...** from the *Format* drop-down list.

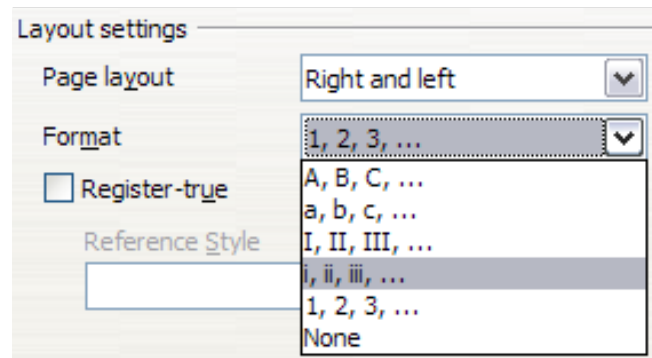


Figure 43: Changing format of page numbers

Numbering the first page something other than 1

Sometimes you may want to start a document with a page number greater than 1. For example, you may be writing a book, with each chapter in a separate file. Chapter 1 may start with page 1, but Chapter 2 could begin with page 25 and Chapter 3 with page 51.

Follow these instructions to start the page numbering in a document at a number greater than 1. (These instructions are for a page number in a footer, but you could use a header instead.)

Tip

Do not set a starting page number that is an even number because you will end up with a blank page before the first page when you print the file or export it as a PDF.

- 1) Choose **Insert > Footer > [page style]** to activate the footer. (If the page style is already selected in the Footer menu, point to it and click **OK** in the dialog box that appears. Then point to that page style again to select it.)
- 2) The cursor is now in the footer. To insert the page number, choose **Insert > Fields > Page Number**. The page number will be **1**.
- 3) Click in the first paragraph in the text area or type a paragraph of text.
- 4) Choose **Format > Paragraph** (or right-click and choose **Paragraph** from the pop-up menu) to display the Paragraph dialog box.
- 5) On the *Text Flow* page, in the *Breaks* section, select **Insert** and select **Page** in the *Type* drop-down list. Select **With Page Style** and the page style you are using for the first page of the document.
- 6) The *Page number* field is now active. Type the page number you want to start with. Click **OK** to close the Paragraph dialog box.

Numbering pages by chapter

Technical documents often include the chapter number with the page number in the header or footer. For example, 1-1, 1-2, 1-3, ...; 2-1, 2-2, 2-3, ...

To set up this type of page numbering in LibreOffice, you need to do three things:

- 1) Ensure that your chapter titles are all identified by the same paragraph style, for example, the Heading1 style.

- 2) Use **Tools > Outline Numbering** to tell LibreOffice what paragraph style you are using for Level 1 in your outline, and specify “1,2,3” in the Number box.

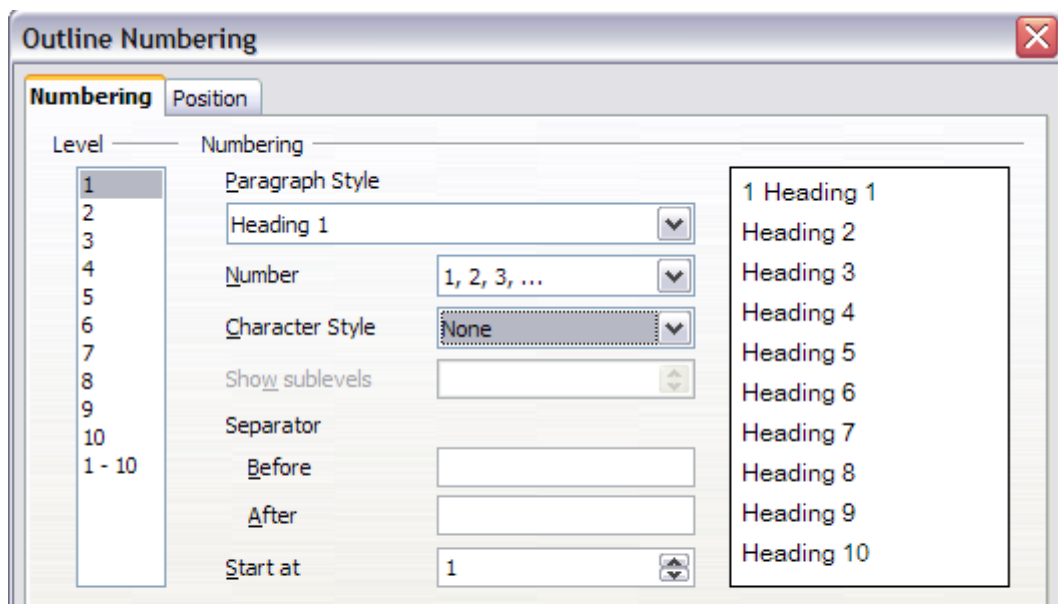


Figure 44: Specifying paragraph style and numbering for chapter titles

- 3) Insert the chapter number in your document. To do this:
 - a) Place the cursor in the header or footer just before the page number you inserted earlier, and choose **Insert > Fields > Other** from the menu bar.
 - b) On the Fields dialog (Figure 45), go to the *Document* page. Select **Chapter** in the *Type* list, **Chapter number** in the *Format* list, and **1** in the *Layer* box. Click **Insert**.

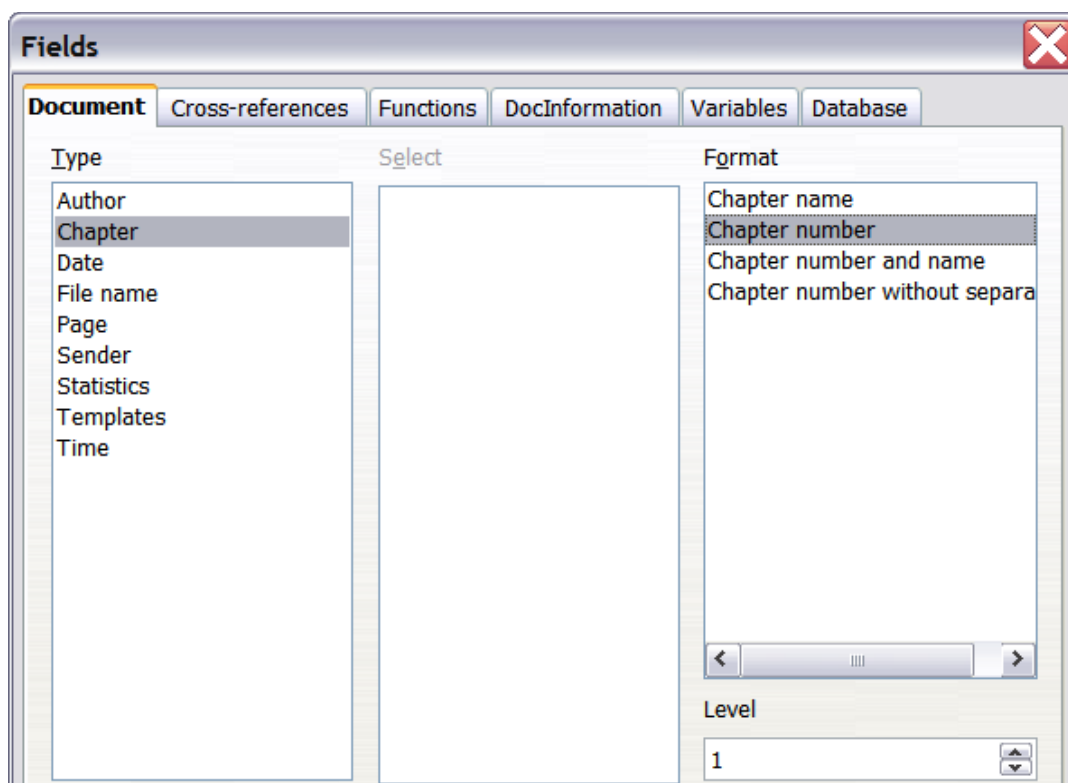


Figure 45: Inserting a chapter number field

- c) Type a hyphen or other punctuation between the chapter number and the page number.

For more information, see “Choosing paragraph styles for outline levels” and “Including chapter or section information in page headers” in Chapter 7, Working with Styles.

Restarting page numbering

Often you will want to restart the page numbering at 1, for example, on the page following a title page or a table of contents. In addition, many documents have the *front matter* (such as the table of contents) numbered with Roman numerals and the main body of the document numbered in Arabic numerals, starting with 1.

You can restart page numbering in two ways.

Method 1:

- 1) Place the cursor in the first paragraph of the new page.
- 2) Choose **Format > Paragraph**.
- 3) On the *Text Flow* page of the Paragraph dialog box (Figure 7 on page 11), select **Insert** in the *Breaks* area.
- 4) In the *Type* drop-down list, select **Page**.
- 5) In the *Position* drop-down list, select **Before** or **After** to position where you want to insert the page break.
- 6) Select **With Page Style** and specify the page style to use.
- 7) Specify the page number to start from and then click **OK**.

Method 2:

- 1) Place the cursor in the first paragraph of the new page.
- 2) Choose **Insert > Manual break**.
- 3) **Page break** is the default selected on the Insert Break dialog box.

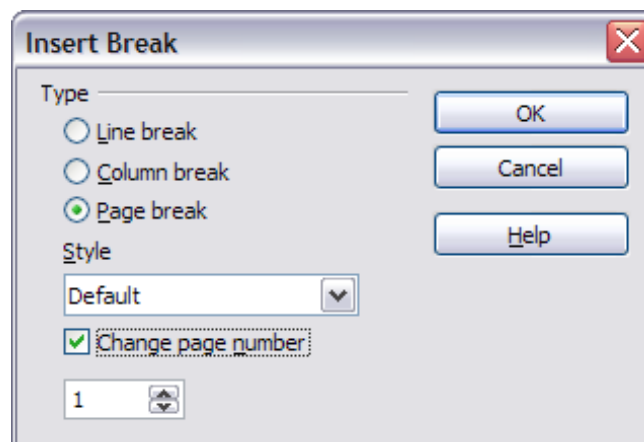


Figure 46: Restarting page numbering after a manual page break

- 4) Choose the required page in the *Style* drop-down list.
- 5) Select **Change page number**.
- 6) Specify the page number to start from and then click **OK**.

Example: Restart page numbering: a preface

A standard preface has the following properties:

- Page numbers are displayed in Roman numerals (i, ii, iii, iv, ...).
- After the preface, the document starts on a *Default* page.
- The page number resets to 1, and the number format becomes Arabic (1, 2, 3, 4, ...).

Resetting the page number requires page breaks.

First, let's get the preliminary work done for the *Preface* style:

- 1) Create a new page style and name it **Preface**.
- 2) Set its *Next Style* to **Preface** because a preface could span multiple pages.
- 3) Add a header to *Preface* and insert the *Page Number* field. Make the page numbers display as Roman numerals (i, ii, iii, iv, ...):
 - a) Open the page style window for *Preface* (if not already open) and click the **Header** tab. Select **Header on** under *Header*.
 - b) Click the **Page** tab. Under *Layout settings*, in the *Format* drop-down list, set the format to **i, ii, iii, ...**. Click **OK** to close the dialog box.

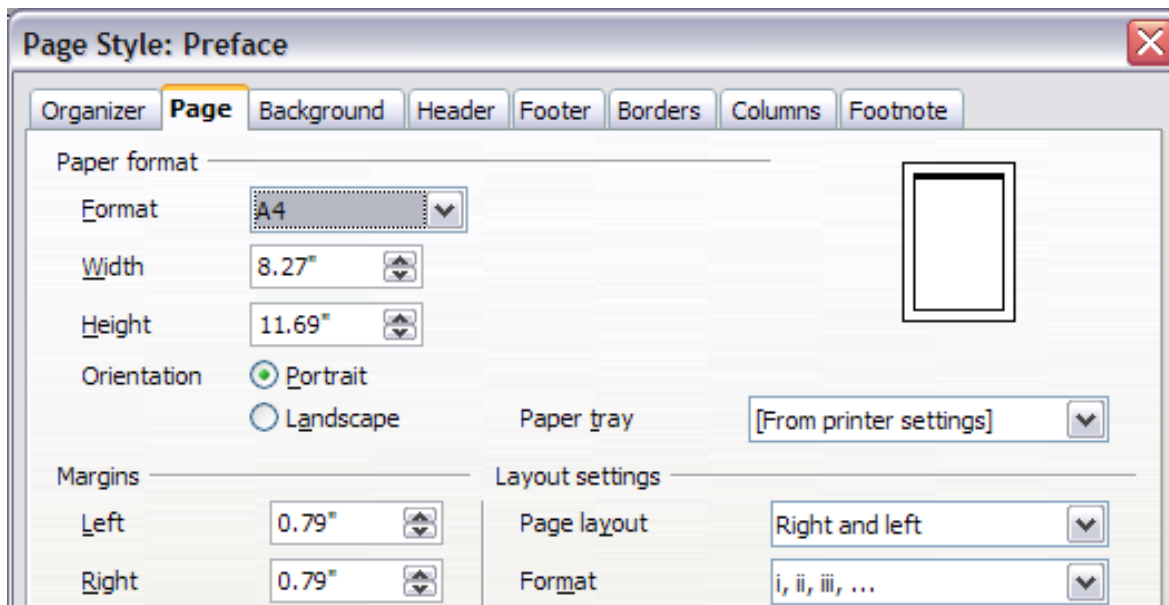


Figure 47. Set page number format to Roman numerals.

After the preface is written, we are ready to restart the page numbering in the main body of the document to Arabic numerals. Follow these steps:

- 1) Make an empty paragraph at the very end of the preface.
- 2) Put the cursor on the blank line.
- 3) Choose **Insert > Manual Break**.
- 4) Select **Page break** and choose the *Default* style.
- 5) Select the **Change page number** option and set the new value to **1**. Click **OK** to close the dialog box.

These settings are shown in Figure 48.

Note

You cannot assign an odd page number to a left page or an even page number to a right page. LibreOffice strongly adheres to the convention that odd page numbers go on right-hand pages and even page numbers on left-hand pages.

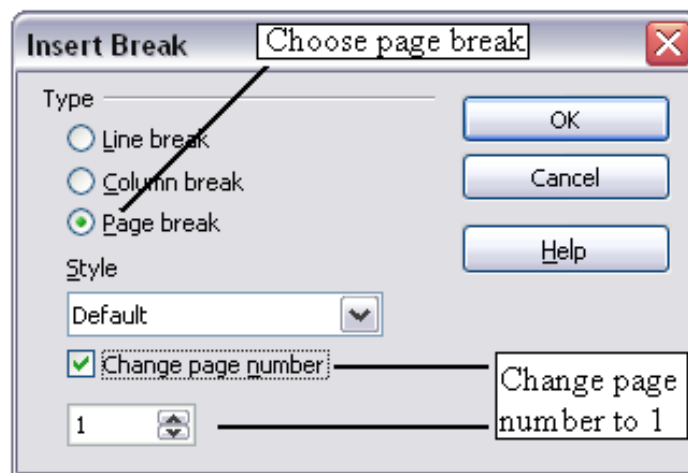


Figure 48: Set the new page number to 1 and the page style to Default.

This change is also reflected on the status bar. The *Page* section of the status bar now includes both the total page count and the entry of the page number field.



Figure 49: Page number in the status bar

Problems with restarting page numbering

Restarting page numbering may lead to two problems.

- The *Statistics* page in the document's **Properties (File > Properties)** always displays the total number of pages in the document, which may not be what you want to appear in the *Page Count* field.
- When page numbering is restarted, LibreOffice always makes odd-numbered pages to be on the right and even-numbered pages to be on the left. It does this by inserting a blank page, if necessary. Sometimes this blank page is not desired, particularly when creating PDFs or when printing single sided.

Solving the page count problem

Suppose you know exactly how many pages are not to be included in the page count. (You want one page to be excluded in the page count for the following example.)

Instead of inserting a *Page Count* field, you can do the following:

- 1) Position the cursor where you want the page count to appear.
- 2) Press *F2* to open the formula bar, just above the horizontal ruler in the main Writer window (see Figure 50).
- 3) After the equal sign, type **page -1**. If you want to exclude several pages, substitute the number of excluded pages for 1 in the formula.
- 4) Press *Enter* to close the formula bar and insert the resulting field into the document.

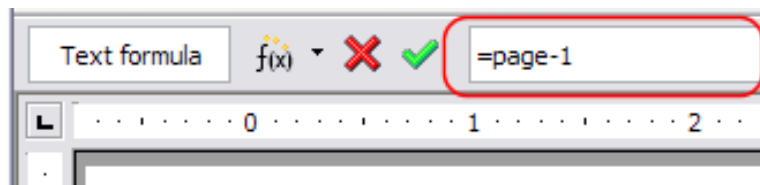


Figure 50: Formula bar

If you do not know the total number of pages in advance, then one approach is to create a bookmark on the last page and then insert a cross reference to it.

To create a bookmark on the last page:

- 1) Go to the last page (*Ctrl+End*).
- 2) Choose **Insert > Bookmark**.
- 3) In the Insert Bookmark dialog box, type a name for the bookmark, for example **LastPage**. Click **OK**.

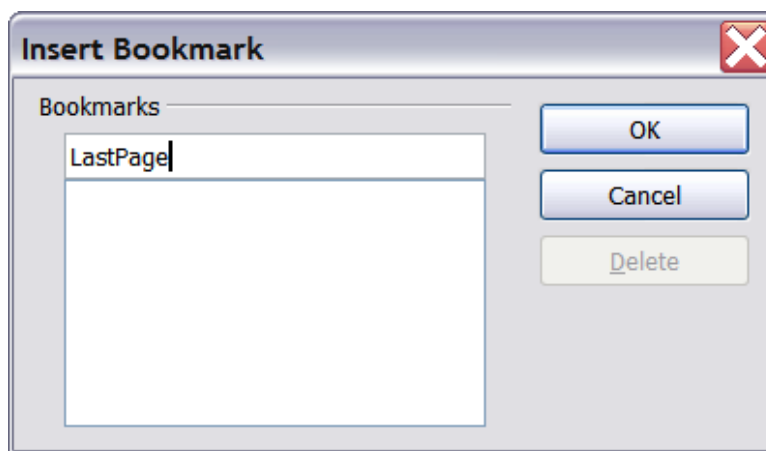


Figure 51: Inserting a bookmark

To insert a cross-reference to the last page in the header or footer where you want to refer to the total number of pages:

- 1) Position the cursor at the desired location—for example after the space added after **of** in the header or footer, as in **page xx of yy**.
- 2) Choose **Insert > Cross-reference**.
- 3) On the *Cross-references* page of the Fields dialog box, select **Bookmarks** in the *Type* column and **LastPage** in the *Selection* column. **LastPage** now appears in the *Name* box.
- 4) In the *Insert Reference to* box, select **As page style**. Click **Insert**.

Note

Do not delete the bookmark at the end of the document. If you do, the cross-reference will not work.

If a field, such as a cross-reference, does not automatically update, select the text containing the field and press *F9*.

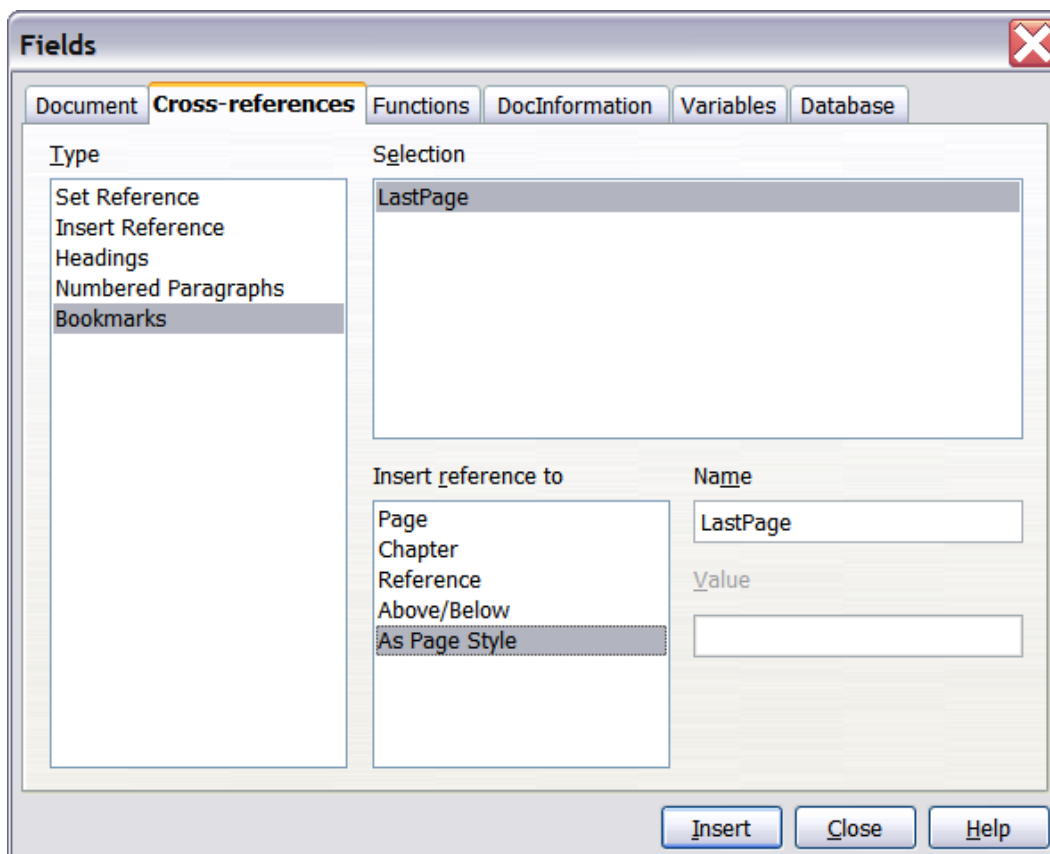


Figure 52: Inserting a cross-reference to a bookmark on the last page of a document

Numbering portrait and landscape pages

To create page numbers on portrait and landscape pages in the same place and orientation:

- 1) Refer to “Portrait headers on landscape pages” on page 32 to create a landscape page style and landscape header or footer styles. When creating the page style, select the **Use dynamic spacing** option in the *Spacing* area in the *Header* or *Footer* pages of the Page Style dialog box.
- 2) Insert the page break and choose the landscape page style; do not change the page numbering.
- 3) In the relevant header or footer, insert the page number field (**Insert > Fields > Page Number**).

Defining borders and backgrounds

You can apply borders and backgrounds to many elements in Writer. Paragraphs, pages, frames, sections, page styles, paragraph styles, and frame styles can include both borders and backgrounds; character styles, tables of contents, and indexes can include backgrounds only.

The dialog box pages for borders and backgrounds are similar in each case. To illustrate their use, we will define a border and background for a text frame.

Tip

Page backgrounds fill only the area within the margins, including the header or footer (if any). To extend the background color or graphic into the margins, you need to define a frame of appropriate size and position, anchor it to the page or a paragraph, and send it to the background. For more about anchoring frames, see Chapter 8, Working with Graphics.

Adding a border

To begin, select the frame, right-click, and choose Frame from the pop-up menu. Choose the *Borders* tab.

Borders have three components: where they go, what they look like, and how much space is left around them.

- *Line arrangement* specifies where the borders go. Writer provides five default arrangements but you can just as easily click on the line you want to customize in the *User-defined* area to get exactly what you want. Each line can be individually formatted.
- *Line* specifies what the border looks like: the style and color. There are a number of different styles and colors to choose from. The Line Style and Color will apply to those borders highlighted by a pair of black arrows in the User-defined map on the left hand side of the dialog box.
- *Spacing to contents* specifies how much space to leave between the border and the contents of the element. Spaces can be specified to the left, right, above, and below. Check **Synchronize** to have the same spacing for all four sides. This spacing is like a padding and it is not factored in when calculating the text measurements.
- *Shadow style* properties always apply to the whole element. A shadow has three components: where it is, how far from the element it is cast, and what color it is.

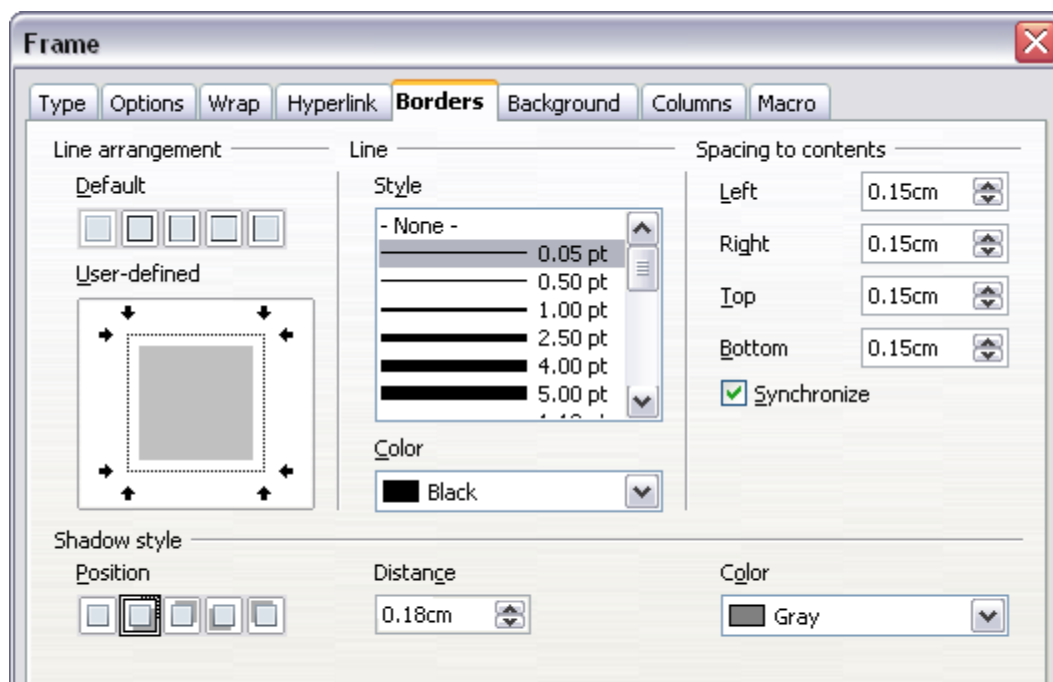


Figure 53: Frame dialog box: Borders page

Adding color to the background

In the Frame dialog box, choose the Background page. Here you can add color or a graphic.

To add color to the background, select from the color grid. You can adjust the transparency of the color to make any text easier to read.

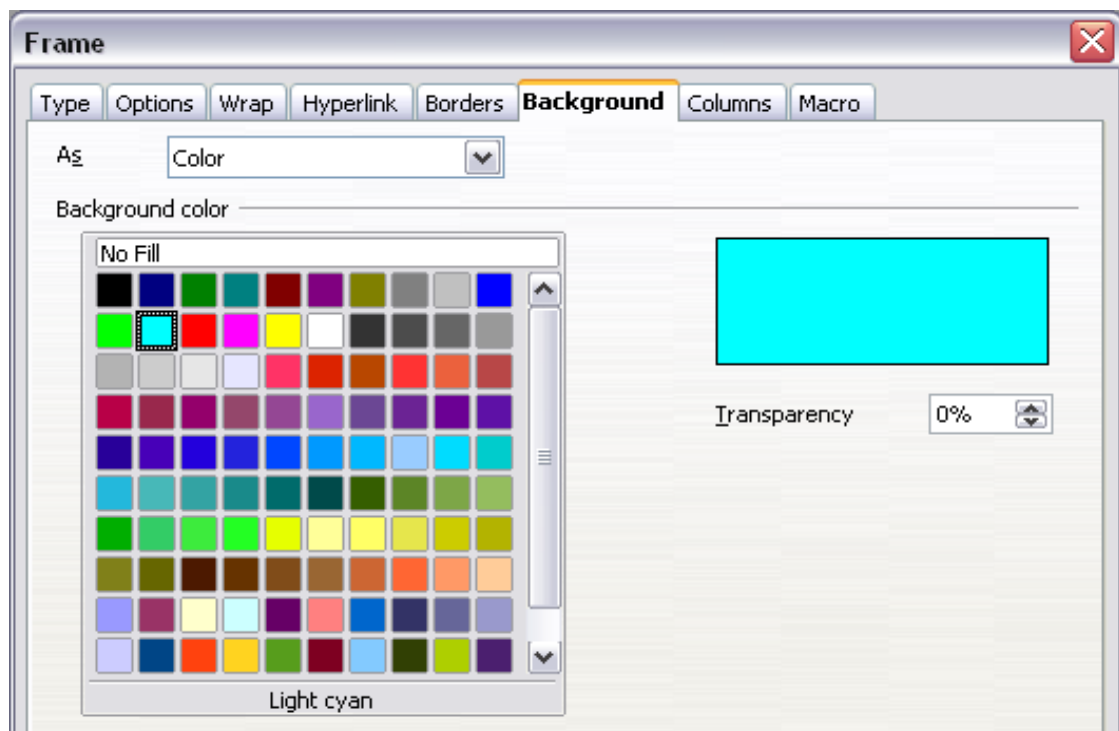


Figure 54: Frame dialog box: Background page showing color choices

Adding a graphic to the background

To add a graphic to the background:

- 1) From the **As** drop-down list on the **Background** page, select **Graphic**. The page now displays the graphics options, as shown in Figure 54.
- 2) Click the **Browse** button. The Find Graphics dialog box opens.
- 3) Find the file you want and then click the **Open** button. The Find Graphics dialog box closes and the selected graphic appears in the preview box on the right-hand side of the *Background* tab. (If you do not see the graphic, select the **Preview** option.)
- 4) To embed the graphic in your document, deselect **Link**. To link the graphic to the document but not embed it, select **Link**. For more about linking graphics, see Chapter 8, Working with Graphics.
- 5) In the *Type* area, choose how you want the background graphic to appear:
 - a) To position the graphic in a specific location, select **Position** and then click the desired location in the position grid.
 - b) To stretch the graphic to fill the entire background area, select **Area**.
 - c) To repeat the graphic across the entire background area, select **Tile**.
- 6) In the *Transparency* area, you can adjust the transparency of the graphic. This adjustment is often necessary to make any text easier to read.

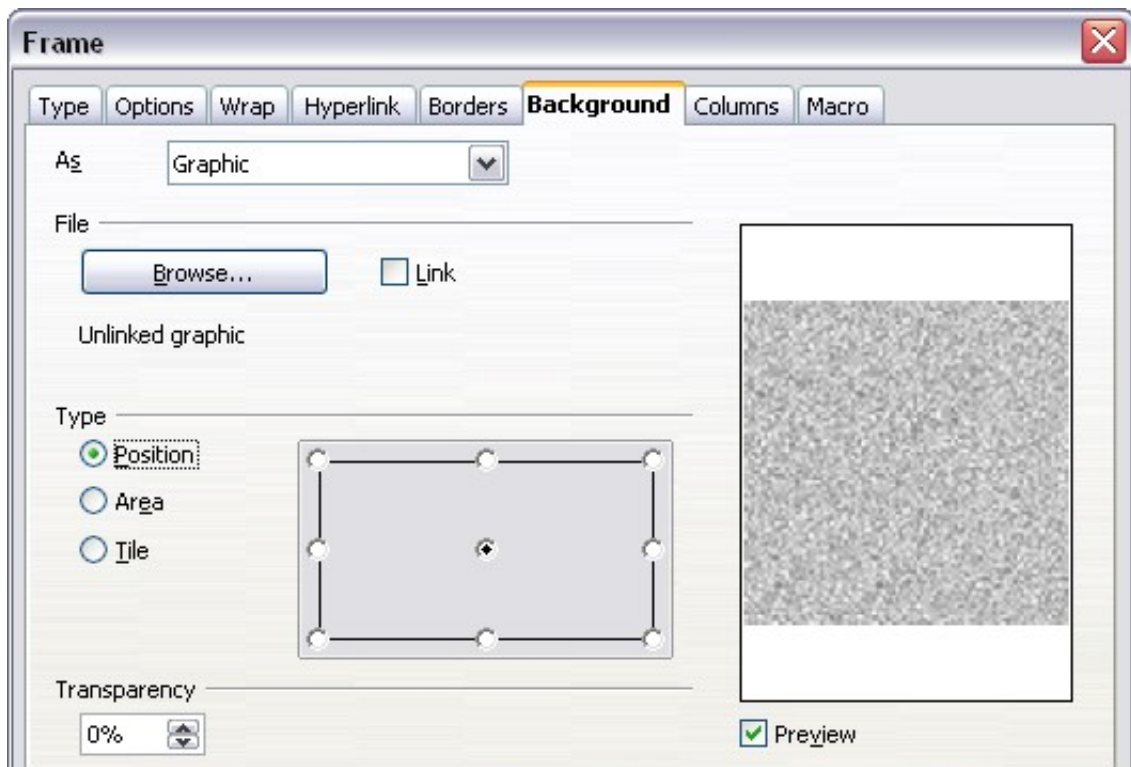


Figure 55: Graphic options on the Background page of the Frame dialog box

Deleting color or graphics from the background

To delete color or graphics from the background:

- 1) From the As drop-down list, select **Color**.
- 2) Click **No Fill** on the color grid.