



LibreOffice
Community



Writer Guide 7.2

Chapter 9

Working with Styles

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Note

Everything you send to a mailing list, including your email address and any other personal information that is written in the message, is publicly archived and cannot be deleted.

Publication date and software version

Published August 2021. Based on LibreOffice 7.2 Community.
Other versions of LibreOffice may differ in appearance and functionality.

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>F11</i>	⌘+T	Open the Styles deck in the Sidebar

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Introduction

Chapter 8, Introduction to Styles, describes the basics of how to use, apply, and manage styles. This chapter gives a more detailed description of how to create or modify some styles, using the many options available on the various tabs of the Style dialog. It explains how these options affect the appearance of the style and how to use them efficiently.

The Style dialogs share many of the same tabs as the manual formatting dialogs, so this chapter can also help you apply manual formatting (though you do not need that if you use styles).

Creating custom (new) styles

In addition to using the predefined styles provided by LibreOffice, you can add new custom (user-defined) styles. In Chapter 8, three methods are given for creating a new style: drag-and-drop, the *New Style from Selection* icon on the Styles deck, and the Style dialog.

The first two of these methods are convenient because you can check the visual effects that the style produces before creating it. However, for full control over the style (and its relationship to other styles), you need to use the Style dialog, as described in this chapter.

Note

Table styles are created in a different way; see Chapter 13, Tables of Data.

Style dialog

Open the Styles deck on the Sidebar. Select the category of style you want to create by clicking on the appropriate icon on the top part of the Styles deck.

Right-click in the window and select **New** in the context menu. The dialog that is displayed depends on the type of style you selected.

Tip

The dialogs used to create a new style and to modify an existing style are mostly the same, but with one exception: conditional styles have a different dialog. See “Using conditional paragraph styles” on page 16.

Organizer tab

The *Organizer* tab, shown in Figure 1, is common to all style categories (except Table styles), with only small differences between them. Therefore, it is described only once.

Depending on the style you are creating, you will find the following fields on this tab:

- **Name:** present on all the categories. Use this field to name the style you are creating.
- **AutoUpdate:** only present for paragraph and frame styles. If this option is selected, then Writer will apply any manual modification to a paragraph or frame formatted with that style to the style itself.

Caution

If you are in the habit of manually overriding styles in your document, be sure that AutoUpdate is not enabled, or you may suddenly find whole sections of your document reformatted unexpectedly.

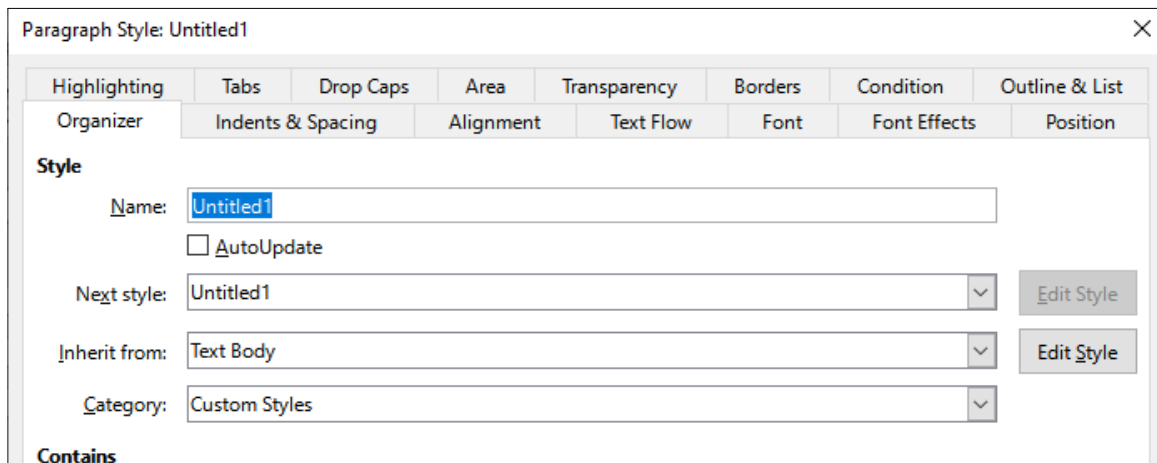


Figure 1: The Organizer tab displayed when a new Paragraph style is created

- **Next Style:** only available for paragraph and page styles. Use it to specify which style will be applied to the next element of the same type. For example, a left page style is usually followed by a right page style, a first page style followed by a left page style, a heading followed by a text body, and so on.
- **Inherit from:** available for paragraph, character, and frame styles; it determines the position of the style in the hierarchy. All the starting properties of the new style are inherited (copied) from the style specified here; see below for more information.
- **Category:** available for all styles; use it to associate the new style with one of the categories. You cannot change the category of the predefined styles. Setting this field is useful when filtering the contents of the Styles deck.
- **Contains:** shows a summary of the properties of the style.

Style inheritance

When creating a new paragraph style or a new character style, you can use an existing style as a starting point for its settings. In this sense, LibreOffice links the styles together.

When style settings are inherited, a change in the parent style affects every style inherited from it. To see the connections between styles, switch to the **Hierarchical** view on the Styles deck filter. For example, every Heading style (such as Heading 1, Heading 2) is inherited from a style called Heading. This relationship is illustrated in Figure 2.

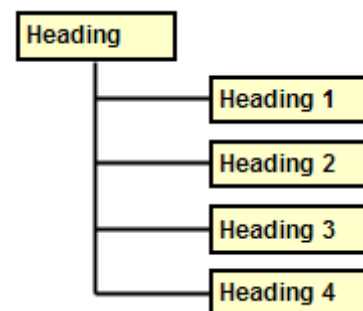


Figure 2: Hierarchical view of inheritance in styles

Inheritance is a method to create “families” of styles in which you can change their properties simultaneously. For example, if you decide that all the headings should be green (such as in this guide), you only need to change the font color of the parent style to achieve the desired result. However, changes made to a parameter of the parent style do not override changes previously made to the same parameter in the child styles. For example, if you change the Heading 2 font color to green, a change of the font color of the Heading style (the parent style) to red will not affect the Heading 2 font color.

You can easily check which properties are specific to a style by looking at the *Contains* section of the Organizer tab. If you want to reset the properties of a child style to that of the parent style, click the **Standard** button located at the bottom of each Paragraph and Character style dialog.

Example: Changing a property of a parent style

Suppose that you want to change the font of not only Heading 1 or Heading 2, but all headings.

Open the Styles deck, select the *Paragraph Styles* category, right-click Heading, then select **Modify** to open the Paragraph Style dialog for the Heading style.

Select the *Font* tab, then select a font and click **OK**. Now the fonts of all the heading styles (Heading 1 through Heading 10) are changed in a single operation.

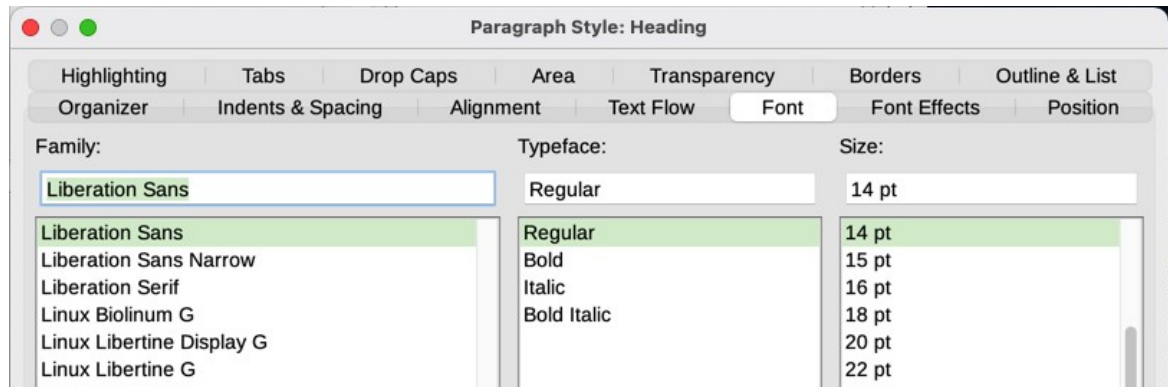


Figure 3: Select the Heading font

Working with paragraph styles

Although this section describes most of the parameters scattered over the tabbed pages shown in Figure 3, you do not need to configure them all. In most cases, you need to modify only a few attributes, particularly if you link styles or base the new style on a similar one.

Indents & Spacing tab

On the *Indents & Spacing* tab (Figure 4), you can set up the indentation of the paragraph and the spacing between lines and between one paragraph and the paragraphs above and below.

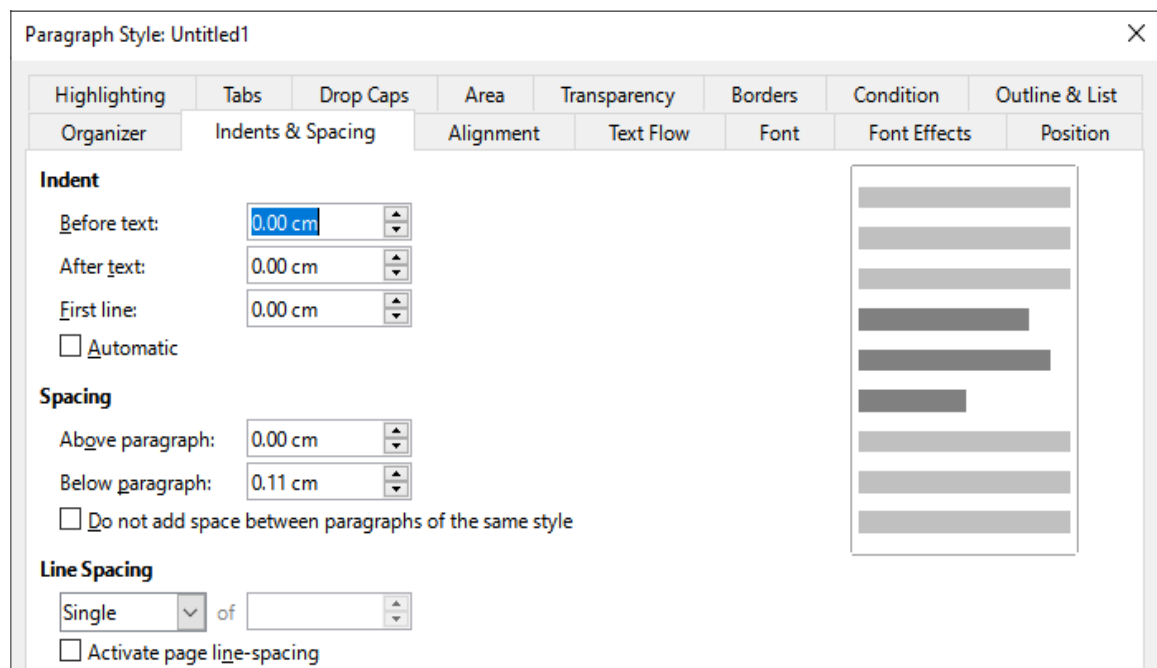


Figure 4: Settings on the Indents and Spacing tab of a paragraph style dialog

Use the *Indent* section of the tab to set up the indentation, using these parameters:

- **Before text:** controls the space in the selected unit of measurement between the left margin of the page and the leftmost part of the paragraph area. Entering a negative value results in the text starting on the left of the margin. This may be useful in situations where your left margin is quite wide, but you want the headings to be centered in the page.
- **After text:** controls the space in the selected unit of measurement between the right margin of the page and the rightmost part of the paragraph area. Entering a negative value results in the text extending into the right margin of the page.
- **First line:** enter the offset in this box (either positive or negative) of the first line of the paragraph relative to the paragraph area. A positive value increases the indentation of the first line, while a negative value makes the first line start to the left of the paragraph area.
- **Automatic:** select this box to allow Writer to automatically control the indentation of the first line. The value is calculated by Writer on the basis of the font size and other parameters.

Use the *Spacing* section of the page to determine the amount of vertical space above and below the paragraph. It is customary to include some “space above” in heading styles so that they are separated from the text body of the previous section without the need to insert empty paragraphs. Spacing between paragraphs is also normal in certain types of documents. The body text style of this guide is configured to leave some space between consecutive paragraphs. You can select the option to remove space between paragraphs of the same style.

Note

An option in **Tools > Options > LibreOffice Writer > Compatibility** controls whether space above and space below are added together (the default) or if the larger space is the only one that applies. See Chapter 20, Customizing Writer, for more information.

The spacing between paragraphs does not affect the spacing between lines within a paragraph, which is controlled in the *Line spacing* section. You can select one of the following values:

- **Single:** the default setting—applies a single line spacing to the paragraph. This is calculated automatically based on the font size.
- **1.15 lines:** sets the line spacing to 1.15 lines. This small increase often improves the appearance of text without using a lot of vertical space.
- **1.5 lines:** sets the line spacing to 1.5 lines.
- **Double:** sets the line spacing to 2 lines.
- **Proportional:** activates the edit box next to the drop-down list where you can enter a percentage value. 100% means a single line spacing, 200% double line spacing, and so on.
- **At least:** this choice activates the edit box next to the drop-down list, where you can enter the minimum value (in your selected unit of measurement) to be used for the line spacing.
- **Leading:** if this is selected, you can control the height of the vertical space between the base lines of two successive lines of text, by entering a value, which is summed with the value of single line spacing, into the edit box.
- **Fixed:** this choice activates the edit box next to the drop-down list, where you can enter the exact value of the line spacing.

Tip

When using different font sizes in the same paragraph, the line spacing may be uneven. To obtain evenly spaced lines, select **Fixed** or **At least** in the drop-down list and a value that is large enough to create a spacing between the lines sufficient to account for the largest font size used.

The last parameter on this tab is **Activate page line-spacing**. When *Use page line-spacing* is activated for a page style (see “General settings for the page style” on page 20), selecting this parameter enables page line-spacing for this paragraph style. To exempt the paragraph style from this feature, deselect this box.

When you enable a paragraph, paragraph style, or page style for page line-spacing, the base lines of the affected characters are aligned to an invisible vertical page grid, regardless of font size or of the presence of graphics. This aligns the baseline of each line of text to a vertical document grid, so that each line is the same height.

Alignment tab

Use the *Alignment* tab to modify the horizontal alignment of the text, choosing between Left, Right, Center, and Justified. The results of the selection are shown in a preview window on the right-hand side of the page.

When selecting Justified alignment, you can also decide how Writer should treat the last line of the paragraph. By default, Writer aligns the last line to the left (Start), but you can choose to align it to the center or to justify it (meaning that the words on the last line will be spaced in order to occupy it fully). If you have selected to justify the last line and select the **Expand single word** option, then when the last line of a justified paragraph consists of a single word, this word is stretched by inserting spaces between characters so that it occupies the full length of the line.

The alignment page is also used to control the Text to Text vertical alignment, useful when you have mixed font sizes on the same row. Choose the element of the fonts on the line that will be aligned between Automatic, Base line, Top, Middle, Bottom. Refer to Figure 5 for a visual representation of these reference points.

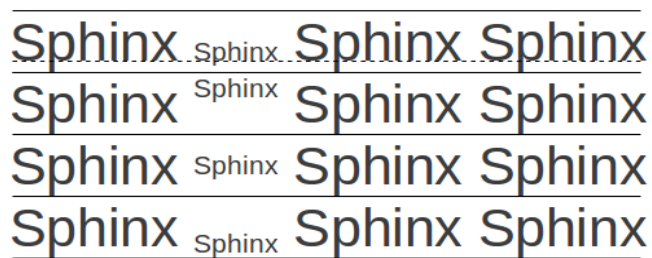


Figure 5: Text to text vertical alignment: Base line, Top, Middle, Bottom

Text flow options for paragraph styles

The *Text Flow* tab (Figure 6) has three parts: Hyphenation, Breaks, and Options.

With **Automatically** selected under *Hyphenation*, three parameters are available:

- **Characters at line end:** controls the minimum number of characters to be left on a line before inserting a hyphen.
- **Characters at line begin:** controls the minimum number of characters that can be placed at the beginning of a new line following a hyphen.
- **Maximum number of consecutive hyphens:** controls the number of consecutive lines that terminate with a hyphen. The typographical standard is 2.

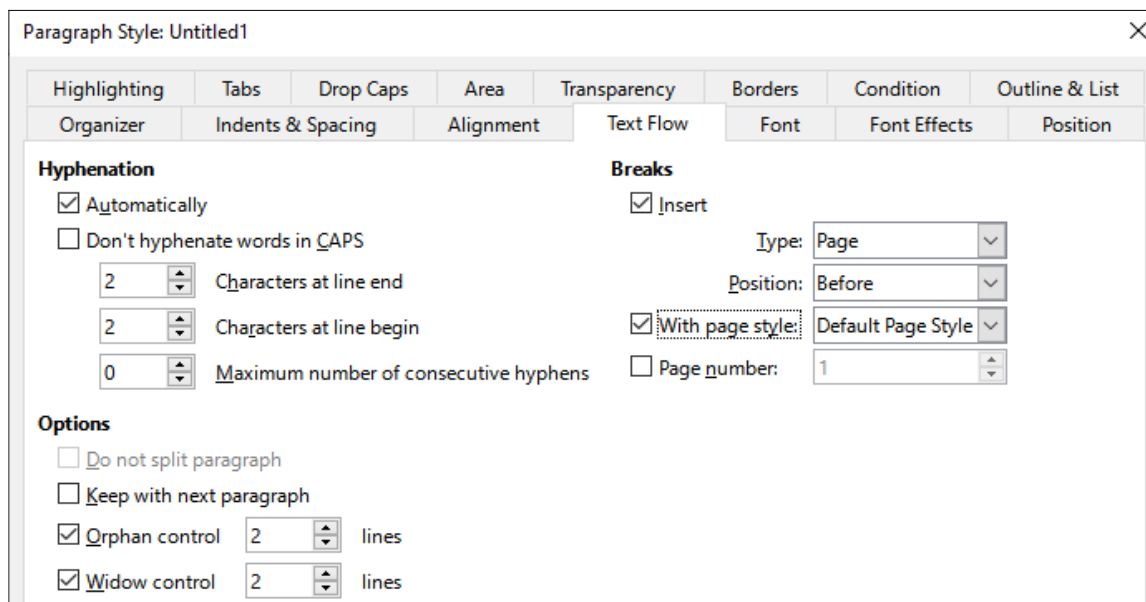


Figure 6: The options on the Text Flow tab of the Paragraph Style dialog

In the *Breaks* section, you can require a paragraph to start on a new page or column and specify the position of the break, the style of the new page, and the page number. A typical use for this option is to start the first page of a new chapter on a new (usually right-hand) page.

To always start a new page with a particular style, choose the following settings:

- In the *Breaks* section, select **Insert**. Make sure that *Type* is set to **Page** and *Position* is set to **Before**.
- Select **With Page Style** and choose the page style from the list.
- To continue page numbering from the previous chapter, do not select the **Page number** option. To restart each chapter's page numbering at 1 (a style used in some technical documents), select **Page number** and set it to 1.

✓ Note

If you want the first page of a new chapter to always start on a right-hand page, make sure that the page style for the first chapter page is set for the right page only by making this selection in the Layout settings field on the *Page* tab of the Page Style dialog (see Figure 17 on page 21).

The *Options* section of the *Text Flow* tab provides settings to control what happens when a paragraph does not fit on the bottom of a page:

- **Do not split paragraph:** If a paragraph does not fit on the bottom of one page, the entire paragraph moves to the top of the next page. This could cause a large blank space at the bottom on the page.
- **Keep with next paragraph:** Use for headings or the lead-in sentence to a list, to ensure that it is not the last paragraph on a page.
- **Orphan control** and **Widow control:** Widows and orphans are typographic terms. An orphan is the first line of a paragraph alone at the bottom of a page or column. A widow is the last line of a paragraph that appears alone at the top of the next page or column. Use these options to allow paragraphs to split across pages or columns but require at least two or more lines to remain together at the bottom or top of a page or column. You can specify how many lines must remain together.

Font options for the paragraph style

Three tabs of the Paragraph Style dialog are dedicated to settings controlling the appearance of the typeface: the *Font*, *Font Effects*, and *Position* pages. The first two tabs are straightforward. Many of the options are the same as those used when creating a character style, as discussed on page 18. Options that can be used when creating a paragraph style are described here.

Specifying a relative font size

You can specify a fixed font size (in points or other measurement units). In addition, if you are creating a style based on another style (linked style), you can specify a font size relative to that other style either as a percentage or as a plus or minus point value (–2pt or +5pt). Relative font sizes are commonly used for Web pages.

For example, the Heading 1 paragraph style is based on the Heading style. If the font size of the Heading style is 14pt, and the font size of the Heading 1 style is specified as 130%, the resultant font size of text in a paragraph formatted with the Heading 1 style is 14pt times 130% = 18.2pt.

To specify a percentage font size: in the Paragraph Style dialog, select the *Font* tab. In the Size box, enter the percentage amount followed by the symbol % (Figure 7). Similarly, you can enter a plus or minus sign followed by the number of points to be added to or subtracted from the base font size.

To change from a relative font size back to an absolute font size, enter the desired font size in a specific measurement, such as points (denoted by the letters *pt*).

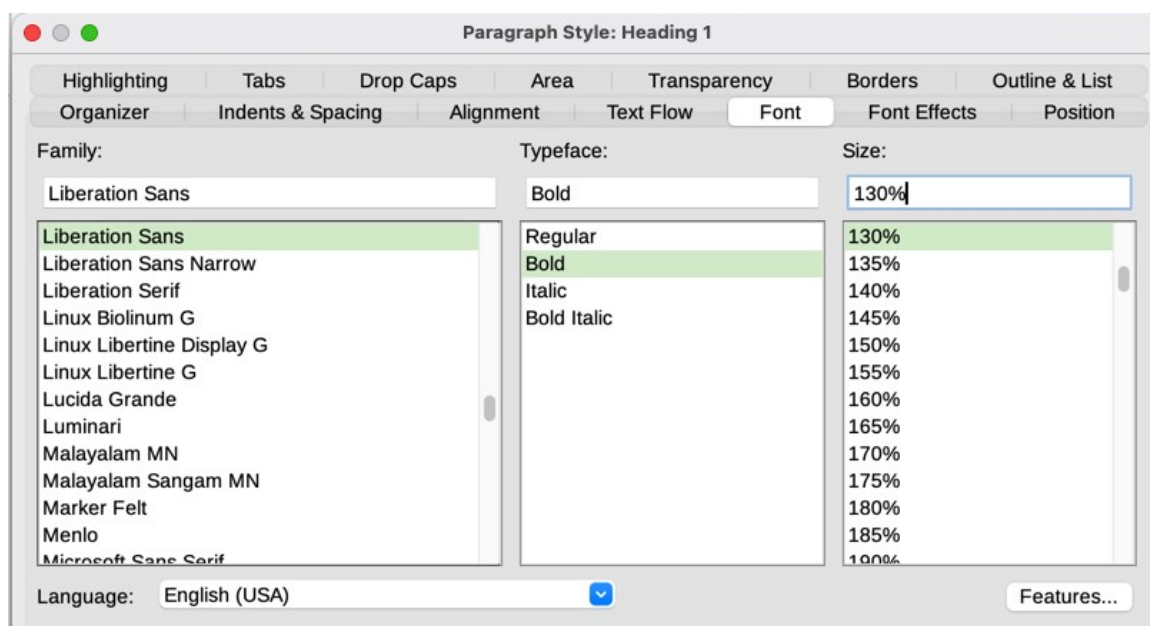


Figure 7: Selecting a type size based on a percentage

Selecting a language for a paragraph style

The language selected for a document (on **Tools > Options > Language Settings > Languages**) determines the dictionary used for spelling, thesaurus, hyphenation, the decimal and thousands delimiter used, and the default currency format. You can only use a language whose dictionary is installed.

Within the document, you can apply a separate language to any paragraph style. This setting has priority over the language of the whole document.

On the *Font* page of the Paragraph Style dialog, languages with installed dictionaries are marked in the Language list by a small icon (Figure 8). When checking spelling, Writer will use the correct dictionary for paragraphs with this style.

If you write documents in multiple languages, you can use the linked styles to create two paragraph styles that differ only in the language option. If you then want to change some of the other properties of the paragraph style, all you need do is to change the parent style.

To insert occasional words in a different language and avoid their being picked by mistake with the spelling checker, it is more convenient to use a character style, as discussed in “Creating a new character style” on page 18.

Tip

The selection [None] after *Language* is useful when a paragraph includes text you don't want checked, like URLs and programming code.

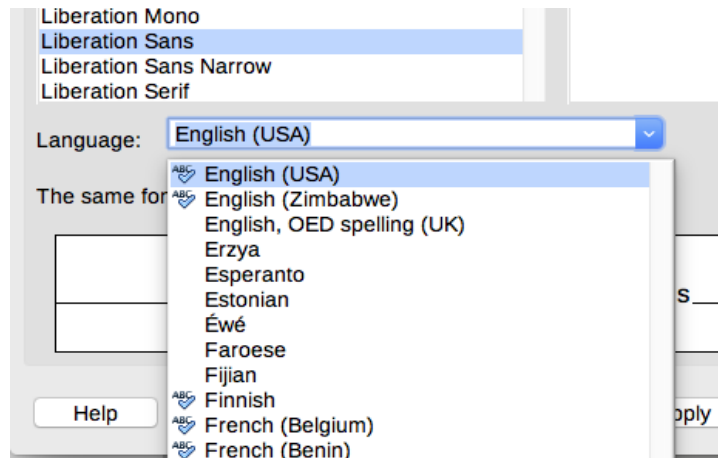


Figure 8: Selecting a language for a paragraph style

Options for positioning text

The *Position* tab of the Paragraph Style dialog collects all the options that affect the position of the text on the screen or printed page.

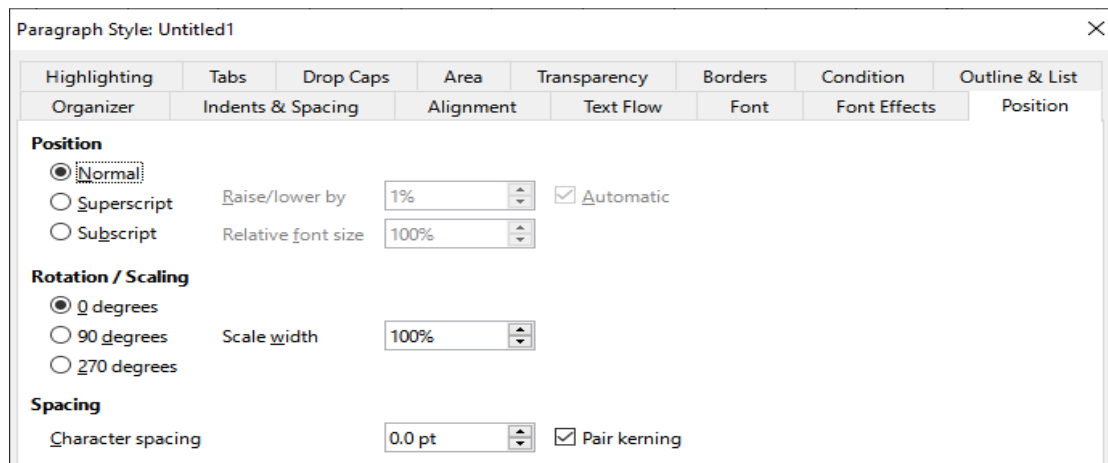


Figure 9: The *Position* tab of the Paragraph Style dialog

Use the *Position* section to control the appearance of superscripts and subscripts (characters above or below the normal line of type, as in H₂O or M₂). However, you will normally apply superscript and subscripts to groups of characters rather than to entire paragraphs. Therefore, it is strongly recommended to change these parameters only when defining a character style and, instead, leave the default settings for the paragraph styles.

The second section of the *Position* tab controls the rotation of the paragraph area. Two common uses for rotated paragraphs are to put portrait headers and footers on a landscape page and to fit headings above narrow table columns (as shown in Figure 10).

i Tip

Rotated table headings are usually more readable if they are angled, not vertical. To produce angled text, you need to create a text object from the Drawing toolbar and rotate it to any angle you wish. See Chapter 11, Images and Graphics.

<i>This is long</i>	<i>Another long heading</i>	<i>A rotated heading</i>	<i>Another heading</i>	<i>Another heading</i>	<i>Another heading</i>	<i>Another heading</i>

Figure 10: A table with rotated headings

The *Scale width* box controls the percentage of the font width by which to compress or stretch the rotated text horizontally; that is, from the first character to the last.

Chapter 6, Formatting Pages: Advanced, describes how to create portrait headers and footers on landscape pages by rotating characters. You can achieve the same effect by defining a separate header or footer paragraph style specifically for landscape pages.

Example: Rotating the text in a paragraph style

As an example, we will apply rotated table headings to a pre-existing table.

- 1) Create a new paragraph style. Name it *Table Heading Rotated*.
- 2) On the *Position* tab of the Paragraph Style dialog, in the Rotation / scaling section, select 90 degrees. Click **OK** to save the new style.
- 3) Select the heading row of the table and apply the new style. Any text in the cells of the heading row is now rotated.
- 4) If the headings are aligned to the top of the cells, you may want to change the alignment to the bottom of the cells, as shown in Figure 10. To do this, click the **Bottom** icon on the Table toolbar or select **Format > Alignment > Bottom** on the Menu bar.

Spacing options

Use the *Spacing* section of the *Position* tab to control the spacing between individual characters in the paragraph. When selecting an option other than default in the drop-down menu, use the edit box to enter the value in points by which you want to expand or condense the text.

The **Pair kerning** option (selected by default) increases or decreases the amount of space between certain pairs of letters to improve the overall appearance of the text (Figure 11). Kerning automatically adjusts the character spacing for specific letter combinations. Kerning is only available for certain font types and, for printed documents, only works if your printer supports it.



Figure 11: Kerning disabled (left) and enabled (right)

Controlling tab stops

Although borderless tables are generally considered a much better solution to space out material across a page, in some situations tabs are sufficient to do what you need, with the added advantages of being simpler to manage and quicker to apply.

Caution

If you need to use tabs, and you will be sending a document to other people, do not use the default tab stops. If the recipients of the document have defined default tab stops that are not the same as the ones you are using, the paragraph may look very different on their machines. Instead, define the tab stops explicitly in the paragraph or the paragraph style; then you can be sure that everyone will see the same layout.

To define tab stops in your paragraph style, use the *Tabs* page, shown in Figure 12. Here you can choose the type of tab: Left, Right, Centered, or Decimal; the character to be used as a decimal point; and the Fill Character—the characters that appear between the end of the text before the tab and the beginning of the text after the tab. You can also create a custom fill character by entering it in the corresponding box. Common use of a fill character is adding dots between a heading and a page number in a table of contents or underscore character when creating a form to fill in.

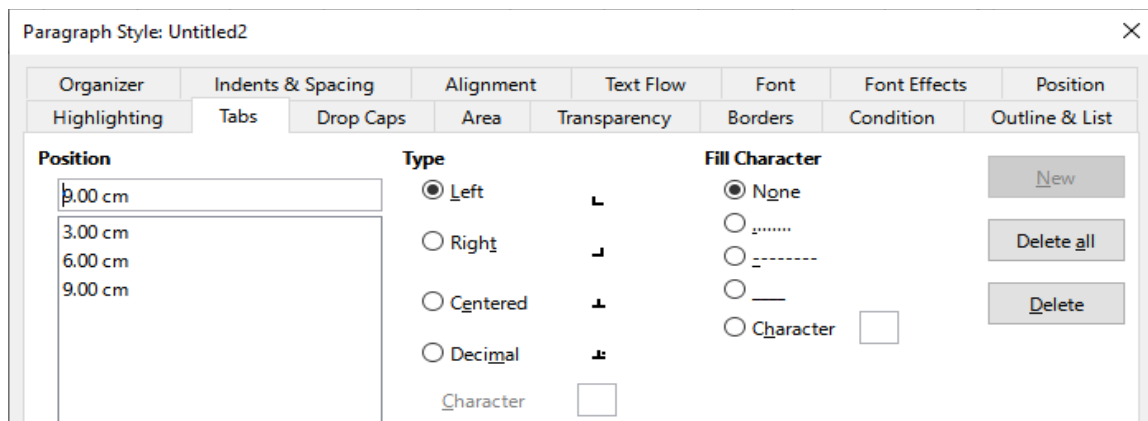


Figure 12: Specifying tab stops for a paragraph style

To create a new tab stop, specify its position relative to the left margin, the type of tab, and the fill character and click the **New** button. The new tab stop is then listed in the *Position* box on the left. To modify the position of a tab stop, create a new one in the desired position and delete the old one using the buttons on the right-hand side of the page.

It is not possible to define tabs that exceed the page margin. In the rare cases where that may be needed, use a borderless table instead.

Outline & List tab

Use the *Outline & List* tab to assign an outline level to any paragraph style, as described in “Assigning outline levels to other styles” in Chapter 8, Introduction to Styles. This feature enables you to create a table of contents that includes those paragraphs along with the headings using styles listed in **Tools > Chapter Numbering**.

You can also use this tab to associate a paragraph style with a list style. Refer to Chapter 12, Lists: Tips and Tricks, for additional information and an example.

Setting up a drop cap

Drop caps (one or more characters in a larger font at the beginning of a paragraph) are generally suitable only for a first paragraph style. You can predefine the properties in the *Drop Caps* tab of the Paragraph Style dialog. Select the **Display drop caps** option to enable the other choices: the number of lines occupied, the number of characters to enlarge (if you want the whole first word, check the corresponding box), and the space between the drop caps and the text.

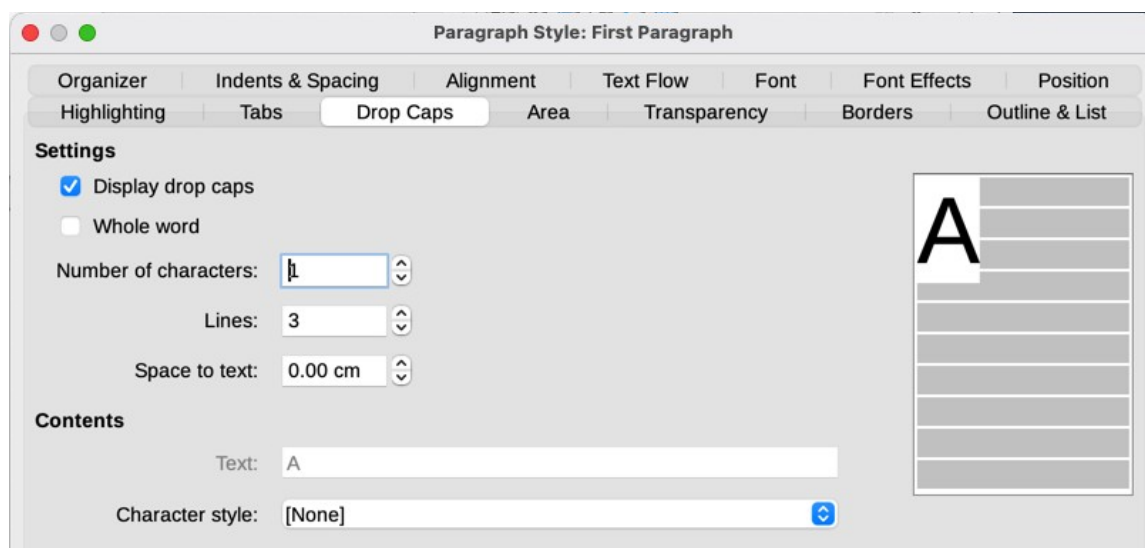


Figure 13: Options for adding a drop cap to the paragraph style

Drop caps use the same font and have the same properties as the rest of the paragraph; however, you can easily modify their appearance by creating a specific character style and using it. For example, you may want the drop caps to be of a different color or apply an outline effect. Select the character style you want to use in the corresponding drop-down menu.

Background (area), highlighting, and transparency

Adding a background color, gradient, pattern, hatching, or bitmap to a paragraph is an alternative to using a frame. You can customize the background using the *Area* tab of the Paragraph Style dialog. The choices are described in “Defining borders and backgrounds” in Chapter 6, Formatting Pages: Advanced.

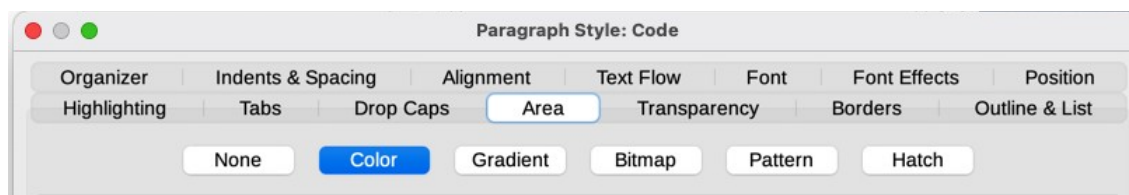


Figure 14: Types of fill for paragraph backgrounds

You may want to pay attention to the following points when working with the *Area* tab:

- If you do not find the desired color in the list of predefined ones, you can define your own as described in Chapter 20, Customizing Writer.
- You can select different backgrounds for the paragraph area and for the text in the paragraph. Use the *Highlighting* page for the text. Figure 15 shows the difference.
- The area treatment is applied only to the paragraph area. If you have defined an indented paragraph, the space between the paragraph and the margin does not have the paragraph's background color.

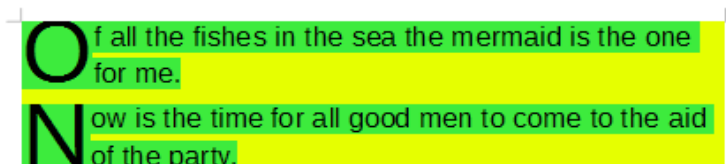


Figure 15: Different Area and Highlighting colors

On the *Transparency* tab, you can choose the transparency options for the selected background. Values range from 0% (fully opaque) to +100% (fully transparent).

Borders

Borders are often used to set off paragraphs from the text without using a frame, or to separate header and footer areas from the main text area (such as in this guide), and to provide decorative elements in some heading styles. Consider the following points:

- Watch out for the effects that the spacing between borders and paragraph area produces on indentations and tabulations.
- If you want the border to be drawn around multiple paragraphs, leave the **Merge with next paragraph** option at the bottom of the page selected.
- Often, white space can have the same effect.

See Chapter 4, Formatting Text, for more about the *Borders* tab.

Using conditional paragraph styles

Making a paragraph style conditional means it changes its formatting depending on where it is used. For example, you may want the style *MyTextBody* to be black by default but turn white when inside a frame with a blue background.

Probably the most common use for conditional formatting is with single-style outlining. Single-style outlining is a type of outline numbering designed with a Numbering List Style. Instead of using different styles for the various outline levels, it changes the number formatting when you press the *Tab* key to create a subordinate heading.

The only trouble with single-style outlining is that all levels look the same. This is where a conditional paragraph style comes in handy. Assign the paragraph style to an outline style in the *Outline & List* tab and then open the *Condition* tab. There, you can assign the levels of the outline style to other paragraph styles. Then, when you press the *Tab* key while using the paragraph style, each level of the outline takes on different formatting, making single-style outlining even more convenient than it is on its own.

When you create a conditional style, you are saying “in this condition make this style look like that other style”. For example, “When typing into a footer, make this style look like the *my_footer* paragraph style; when typing into a table, make this style look like the *table_text* paragraph style”.

In addition to setting the normal (unconditional) properties of the style, you need to define which other style it will look like in different situations. To do this, use the *Condition* tab.

✓ Note

Predefined styles (other than Text body) such as Default, Heading 1, and Heading 2 cannot be set to be conditional.

! Caution

If you want to create a new style and make it conditional, you have to do it while the Paragraph Style dialog is still open for the first time. After the dialog closes, the *Condition* tab no longer appears in the dialog when it is reopened.

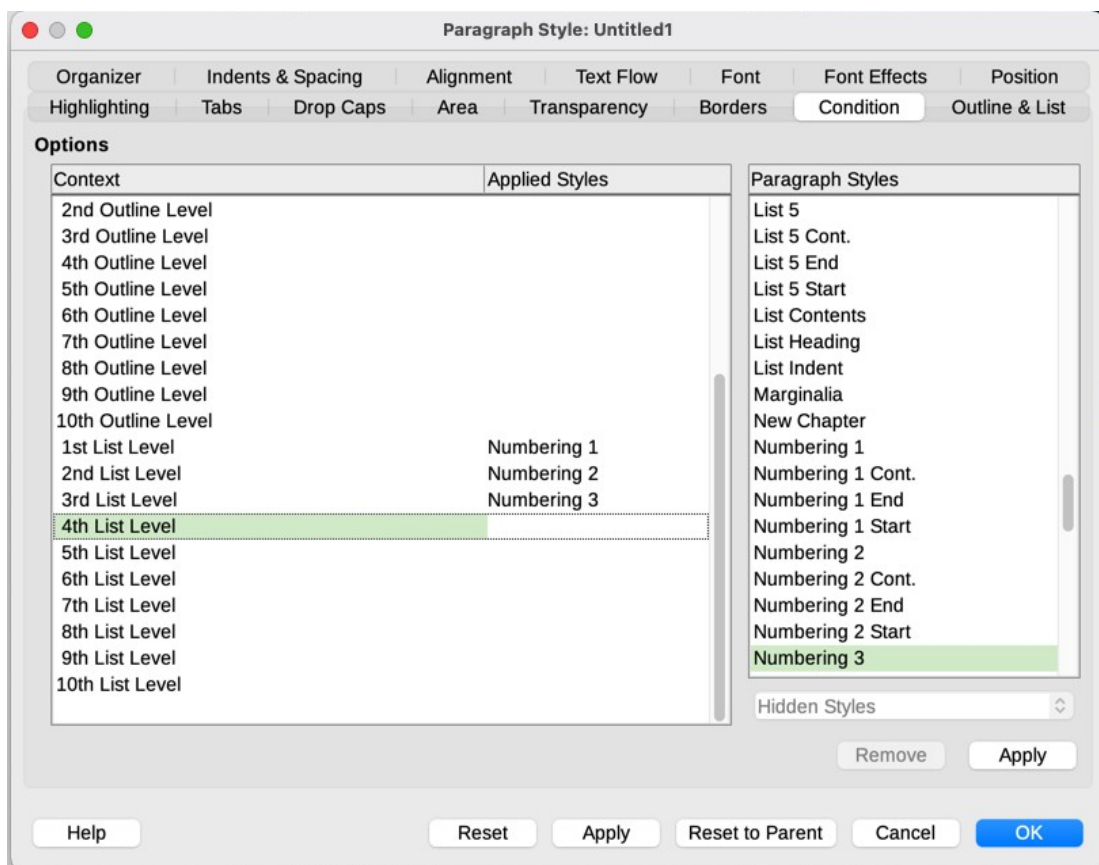


Figure 16: Condition tab for paragraph styles

To set up a conditional paragraph style:

- 1) Define a new paragraph style.
- 2) Select all the paragraph properties for the style. **Do not click OK!**
- 3) Click the *Condition* tab.
- 4) Select the first condition in the *Context* list (left side of the dialog) and select the style you want for this condition in the *Paragraph Styles* list on the right-hand side.
- 5) Click **Apply**. The name of the paragraph style appears in the middle list.
- 6) Repeat steps 5 and 6 for each condition you want to have linked to a different style.
- 7) Click **OK**.

When the style is selected, you will see that the formatting of your text depends on the context.

Working with character styles

Character styles over-ride the formatting in a paragraph style. They are applied to groups of characters, such as words or phrases, rather than whole paragraphs. They are mainly used when you want to change the appearance or attributes of parts of a paragraph without affecting other parts. Examples of effects that can be obtained by means of character styles are **bold** or *italic* typeface or colored words.

Other ways of using character styles are described elsewhere in this book. These uses include making chapter numbers, page numbers, or list numbers larger than the surrounding text and formatting hyperlinks. When you do not want some words (for example, names, or words in a different language) to be detected as spelling mistakes, you can define the language (if any) to be applied in the character style's properties.

Creating a new character style

The tabs of the Character Styles dialog are similar to those for paragraph styles:

- Use the *Organizer* tab to name the new character style and set up its hierarchical level (if needed).
- Use the *Font* tab to choose the font, style, and size for the new character style. You can specify the font size as a percentage or a point increase or decrease in the size of the font in the paragraph where the character style is applied. You can also specify the language of the text to which the character style is applied, so you can insert words in a different language and have their spelling checked using the correct dictionary.
- Use the *Font Effects* tab to set up attributes such as font color, underlining, relief, or other effects. If you frequently use hidden text, for example, it may be convenient to define a character style where the **Hidden** option is marked. Relief effects may be appropriate for a drop cap or to give more emphasis to the chapter number or other parts of the title.
- Use the *Highlighting* tab to apply a colored background to the text. This yields the same effect as using the **Highlight Color** tool on the Standard toolbar.
- Use the *Borders* tab to apply a border and a shadow to the text, if so desired.
- Use the *Position* tab to create a subscript or superscript in case you are not satisfied with the default ones or even a sub-subscript which may be useful for certain scientific publications. In the same tab, you can create rotated, condensed, or expanded text.

Note

When rotating a group of characters, you also need to specify whether the rotated text should fit in the line or if, instead, it is allowed to expand above and below the line. This property is active only for character styles.

Working with frame styles

Frames are often used as containers for text or graphics. To provide consistency in the appearance of frames used for similar purposes, it is a good idea to define styles for frames. For example, you might want photographs to be enclosed in a frame with a drop-shadowed border, line drawings in a frame with a plain border, marginal notes in a frame without a border but with a shaded background, and so on.

Writer provides several predefined frame styles (see Table 1), which you can modify as needed, and you can define new frame styles. The technique for defining and applying frame styles is similar to that for other styles.

Tip

There is considerable overlap between the uses of frames and sections for some page layout purposes. You may find Chapter 6, *Formatting Pages: Advanced*, useful for information about the use of frames and sections.

Table 1: Predefined frame styles and their uses

Style	Comments and Use
Formula	The frame style used for formulas. The default includes AutoSize , which adjusts the size of the frame to the formula.
Frame	The default frame style.
Graphics	The default frame style for graphics. The defaults include AutoSize to fit the graphic, no text wrap, and a thin border around the frame.
Labels	The default frame style for use with File > New > Labels . It seems to be used by LibreOffice automatically and is not intended for users.
Marginalia	A frame style for placing a frame beside the left margin. This style is intended for comments added in the margin of text. The style also is useful for creating sideheads—headings against the left margin, which often are used in technical documentation. An example is given in Chapter 8, <i>Introduction to Styles</i> .
OLE	The default frame style for OLE objects and floating frames. The default places the frame at the top and center of a body of text.
Watermark	The default frame style for a watermark, a graphic placed as the background to a body of text. The default is a Through wrap, with text passing over the frame and anything in it. The graphic should be faint enough that text still is readable over top of it.

How frame styles work

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.

Because frames and objects are used together, it is sometimes easy to forget they are separate elements. In some cases, such as charts, you can edit the frame and object separately.

Unlike other elements that use styles, frames can be defined only partly by their style because their use can vary so much. Several elements of frames, such as the anchor and protected elements, need to be defined manually for individual frames.

To format a frame manually, select **Insert > Frame** on the Menu bar. The dialog that opens contains all the settings available when frame styles are set up, as well as some that are only available when the frame is inserted.

Planning the styles

If you are using a mix of graphics, you may want to define two related styles, one with a border line for graphics with white backgrounds and one without a border for all other backgrounds. You also may want to design one or more frames for text only.

Otherwise, the default frame styles (listed in Table 1) cover most users' needs. The only significant addition that you might need is one or more styles for text frames.

Creating new frame styles

You can access frame settings by selecting **New** or **Modify** in the Styles deck for a frame style.

- *Type* tab: sets the size and position of the frame. One of the most useful options here is **AutoSize**, which automatically adjusts the frame to the object it contains. If the frame style is used automatically, then this option should be selected.
- *Options* tab: sets whether the contents of the frame are printed and able to be edited in a read-only document. This page also sets the text direction, which is useful if you are using the frame for contents in a language that uses right-to-left text direction.
- *Wrap* tab: sets how text is positioned in relation to the frame and how close text comes to a frame. If you want the frame contents to stand out from the paragraphs around it, set the wrap to **Wrap Off**. This probably is the single most important page for frames.
- *Area* tab: sets the background color, bitmap, hatching, gradient, or pattern. This page is useful mostly for text frames in complex page layouts, in which a text frame has an appearance different from the general background of the page.
- *Transparency* tab: sets the transparency options for the selected background. Values can range from 0% (fully opaque) to +100% (fully transparent).
- *Borders* page: sets the attribute for a line around the frame, if any.
- *Columns* tab: this page can be ignored unless the frame is being used for text. The page is the same as is used to set up a page style, as described in Chapter 6, Formatting Pages: Advanced.
- *Macro* tab: sets a macro to use with the frame in order to trigger an action when the user interacts with the frame. These options are useful for on-line Writer or HTML documents.

Working with page styles

Page styles control page properties (margins, page size, header and footer, among others). However, unlike paragraphs, characters, and frames, pages can not have directly applied properties. If you change the properties of a page, you are actually changing the underlying page style, so those changes are applied to all pages that use that page style. To change the properties of individual pages, you need to create a new page style.

Creating a new page style

To create a new page style, open the Styles deck and click the **Page Styles** icon. Right-click anywhere in the window and select **New**. The Page Style dialog contains nine tabs.

Organizer tab

The *Organizer* tab is described on page 5.

General settings for the page style

The *Page* tab of the Page Style dialog is where you can control the general settings of the page. The tab consists of three sections, plus a preview area in the top right.

In the *Paper Format* section, you can specify the size of the paper, choosing from one of the many predefined formats, or select **User** to define your own paper size using the *Width* and *Height* fields. Select the orientation of the paper: **Portrait** or **Landscape**. If your printer has more than one tray, you can specify the tray from which to print pages in the new page style.

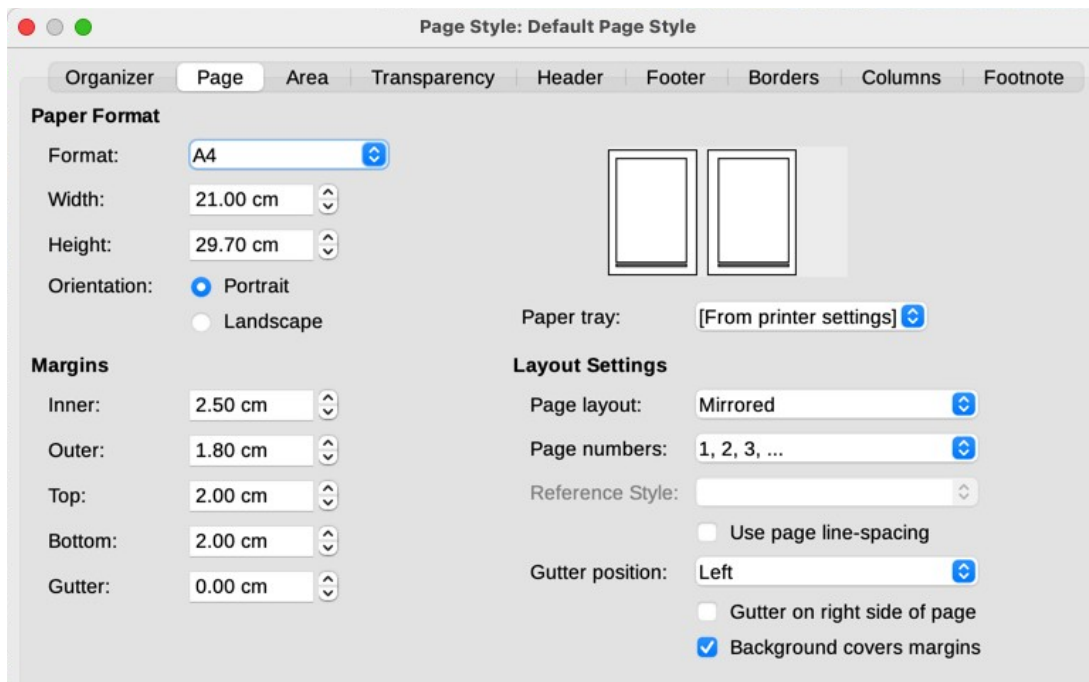


Figure 17: Page tab of Page Style dialog

In the *Margins* section, specify the size of the margins in your preferred unit of measurement. If you select *Mirrored* for Page layout in the *Layout settings* section, then the names of the margins change from *Left* and *Right* to *Inner* and *Outer*. The *Gutter* margin is the extra space to leave between the left (or inner) edge of the page and the left (or inner) margin. (Alternatively, you can leave the Gutter set to zero and add the gutter margin amount to the left or inner margin value.) See also the *Gutter position* setting, which can be *Left* (the default) or *Top*.

In the *Layout Settings* section, choose the desired *Page layout* in the drop-down list. Decide whether the page style being defined applies to both left and right pages (default), mirrored pages, or right or left pages only. Some considerations:

- If you plan to bind the printed pages using this style like a book, select a mirrored layout.
- A common practice in page layouts is to have asymmetrical page margins—both for left and right margins and for top and bottom margins. The most common scheme follows these two general rules for printed page layouts: (a) The outer margin (right margin on a right-hand page) would be wider than the inner margin (left margin on a right-hand page); (b) The bottom margin would be larger than the top margin.
- If you want the first page of a new chapter to always start on a right page, make sure that the page style for the first chapter page is set for the right page only in the *Layout settings* field. The typical procedure for the rest of a chapter is to define a single “mirrored” page style (perhaps, Default Page Style) for both left and right pages. A mirrored page can have different headers and footers. If done this way, every chapter will use two page styles.
- You can choose to define separate page styles for left and right pages, if you want the pages to be very different in appearance (for example, different margins or columns; imagine a book with a full-page photograph on the left pages and two columns of text on the right pages). In that case, make sure that the *Next Style* field for the first page style is set for a left-only page, which, in turn, is set to be followed by a right-only page style. If done this way, every chapter will use three page styles. A hypothetical case might have these page style names: First Page, Left Page, and Right Page.

Use the *Page numbers* drop-down list to specify the page numbering style to apply to this page style.

If you mark the **Use page line-spacing** box, Writer will align the base lines of text printed on adjacent columns, opposite pages, and both sides of a sheet of paper to an invisible vertical grid on the page with a spacing between grid points that depends on the selected Reference Style.

By default, page backgrounds (colors, images, and so on) fill the entire page, including the area in the margins. If you want the background to fill only the text area, but not the margin area, then deselect the *Background covers margins* option in the lower right of the dialog.

Area and Border tabs

The *Area* and *Border* tabs are described in detail in Chapter 6, *Formatting Pages: Advanced*. Use the *Area* tab to apply a background (covers the entire page, including the margins) or the *Border* tab to draw a border around the text area of the page (inside the margins). You can also add a shadow to the text area.

Header and Footer tabs

You can associate a different header or footer with each page style. This property makes it easy to have different headers on left and right pages, to avoid headers on pages at the start of a new chapter, and so on. You can also have a different header or footer on the same page style where it is used for the first page of a document.

If you choose a *Mirrored* or *Right and Left* page layout on the Page tab, you can specify a different header for left or right pages even if you use a single style for both. This option is not available on the predefined *Left Page* and *Right Page* page styles or on any other page style defined to be a left or right page only.

The *Header* and *Footer* tabs are described in detail in Chapter 5, *Formatting Pages: Basics*.

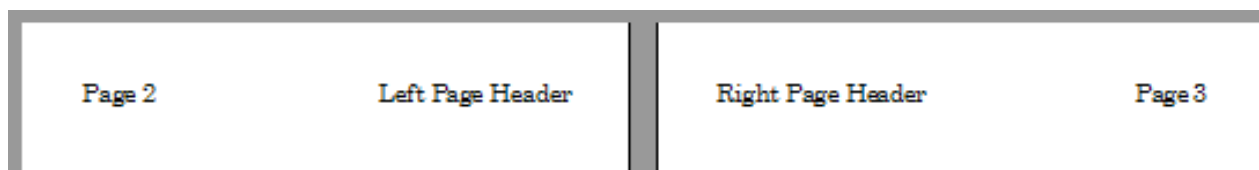


Figure 18: Different content on left and right pages

Columns tab

Use the *Columns* tab to create the column layout for the page style. It has three sections: *Settings*, *Width and Spacing*, and *Separator Line*. Choose the desired number of columns. If you select more than one column, the *Width and Spacing* section and the *Separator Line* section become active. You can use the predefined settings (equally spaced columns) or deselect the **AutoWidth** option and enter the parameters manually. When you work with multiple columns per page, you can also fine tune the position and size of a separator line between the columns.

Footnote tab

Use the *Footnote* tab to adjust the appearance of the footnotes. See Chapter 5, *Formatting Pages: Basics*, for details.

Working with list styles

List styles work together with paragraph styles. They define indentation, alignment, and the numbering or bullet characters used for list items. You can define many list styles, from simple bulleted lists to complex multi-level (nested) lists.

As with other styles, the main reasons for using list styles are consistency and speeding up your work. Although you can create simple lists quickly by clicking the **Toggle Ordered List** or **Toggle**

Unordered List icons on the Formatting toolbar, and create quite complex nested lists using the icons on the Bullets and Numbering toolbar, the appearance of the resulting lists may not be what you want, and you might want to have more than one style of list. You can use the Bullets and Numbering choice on the Format menu to manually format the appearance of some or all of the lists, but if you later need to change their appearance, you will have a lot of manual work to do.

See Chapter 12, Lists: Tips and Tricks, for details on how list styles and paragraph styles work together.

Creating a new list style

The dialog to create a new list style includes six tabs in addition to the usual *Organizer* tab discussed on page 5.

Unordered, Ordered, and Image tabs

The *Unordered*, *Ordered*, and *Image* tabs contain predefined formatting for list item symbols (bullets or numbers). To use one of them for your style, click the image. A thick border indicates the selection. The bullets on the *Bullets* tab are font characters; those on the *Image* tab are graphics.

Outline tab

Use the *Outline* tab to select from eight predefined nested lists. You can also select one and use it as a starting point for your own style, customizing the list using the *Position* tab and the *Customize* tab, as described below.

Position tab

Use the *Position* tab (Figure 19) to fine tune the indentation and spacing of the list item symbol and the text of the list item. This tab is particularly effective when used in combination with the *Customize* tab.

You can adjust the following settings for each individual level or all levels at once (to make them all the same).

- **Aligned at:** the position of the numbering symbol, measured from the left margin of the page.
- **Numbering alignment:** Select *Left* to align the numbering symbol to start directly at the *Aligned at* position. Select *Right* to align the symbol to end directly before the *Aligned at* position. Select *Centered* to center the symbol around the *Aligned at* position. This option does not set the alignment of the paragraph, only the numbering symbol.
- **Numbering followed by:** the character to follow the numbering symbol (plus any characters—for example a punctuation mark—chosen on the *Customize* tab to appear after the number). Choose between a tab stop, a space, or nothing.
- **Tab stop at:** If you selected the tab stop above, you can specify the position of the tab.
- **Indent at:** Specify the distance from the left page margin to the start of all lines in the numbered or bullet paragraph that follow the first line.

Tip

To fully appreciate how the *Numbering alignment* and other parameters work, try to create a numbered list with more than ten elements and make sure that enough room has been made for numbers with two or more digits. You may also wish to right-align numbers 10 or greater.

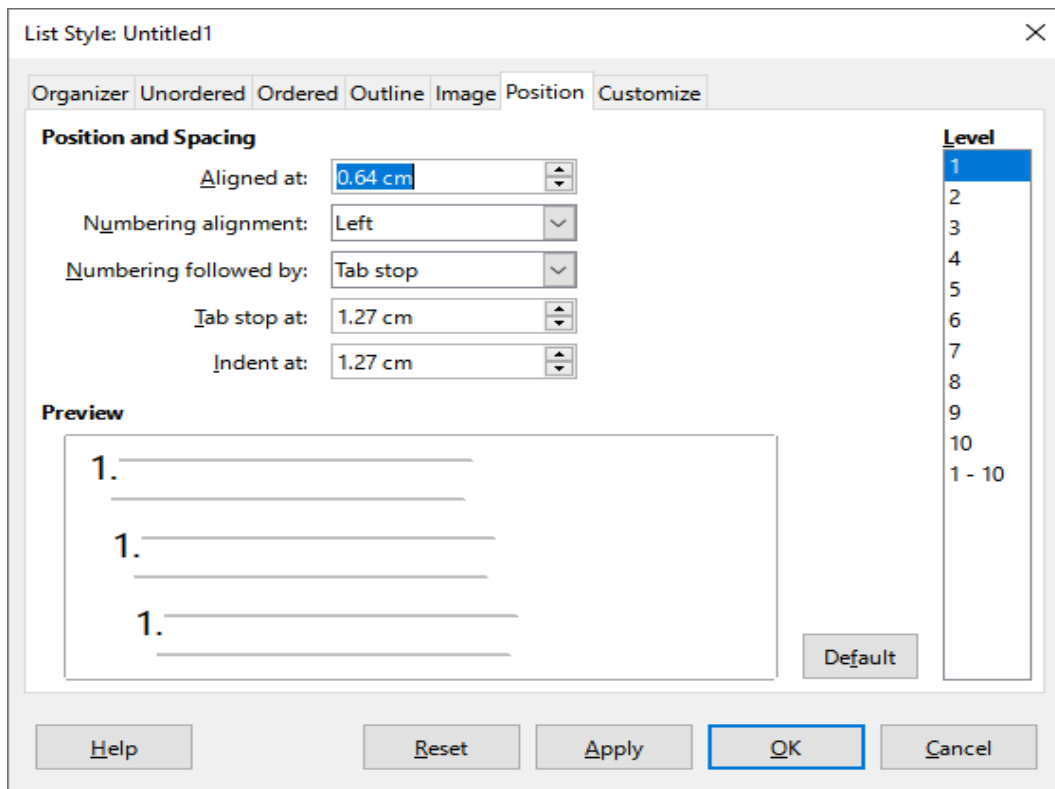


Figure 19: Position settings for a List style

Customize tab

Use the *Customize* tab (Figure 20) to define the style of the outline levels. The options available on this tab depend on the type of marker selected for the list. First, on the left side, select the level you want to modify. To modify all ten levels at once, select 1 – 10 as the level. If you started from a predefined outline, some of the levels will already have settings.

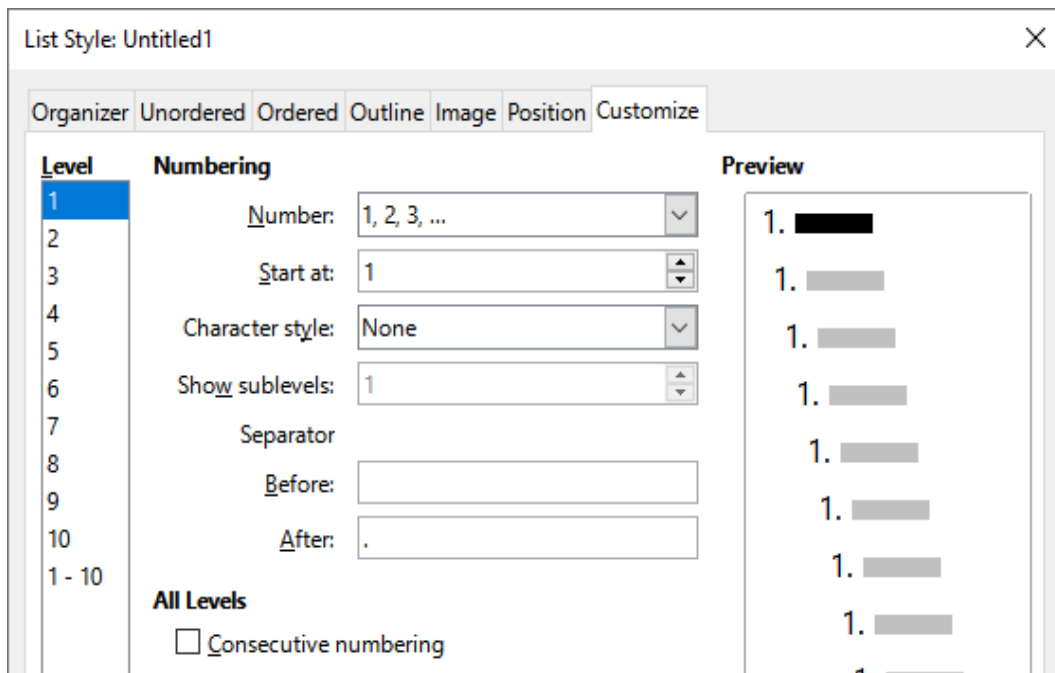


Figure 20: The *Customize* tab for a list style

Depending on the numbering style selected in the *Number* box (bullet, graphic, numbering), some of the following options become available on the tab (not all are shown in the illustration):

- **Start at:** the first value of the list (for example, to start the list at 4 instead of 1).
- **Character Style:** the style to be used for the number or bullet.
- **Show sublevels:** The number of previous levels to include in the numbering style. For example, if you enter "2" and the previous level uses the "A, B, C..." numbering style, the numbering scheme for the current level becomes: "A.1".
- **Separator – Before:** any text to appear before the number (for example, Step).
- **Separator – After:** any text to appear after the number (for example, a punctuation mark).
- Character **Select** button: click to select the character for the bullet.
- Graphics **Select** button: opens a list of available graphics (Gallery) or allows the selection of a file to be used as the list marker.
- **Width** and **Height:** the dimensions of the graphic marker.
- **Keep ratio** option: fixes the ratio between the width and the height of the graphic marker.
- **Alignment:** the alignment of the graphic object.

The right-hand side of the dialog shows a preview of the modifications made.

If you choose the **Linked graphics** option in the *Number* list, the graphic object is linked rather than embedded in the document. The bullet will not be displayed when the document is opened on a different computer (unless the same graphic file is located in the same location on both computers) or if the graphic file used is moved to a different location on the computer.

To revert to the default values, click the **Reset** button in the bottom right corner. Finally, if you wish to use consecutive numbers regardless of the outline level, select the Consecutive numbering box at the bottom of the tab.

Using the Style Inspector

The Style Inspector (Figure 21) is located on the Sidebar. It displays all the attributes of the styles (paragraph and character) and any direct formatting present in the paragraph or word where the cursor is located. These details can be useful when you are trying to figure out why some formatting in a document appears to be incorrect or inconsistent.

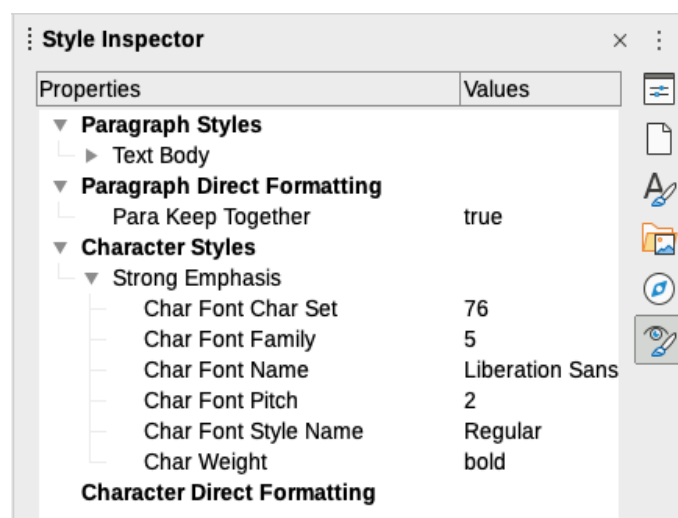


Figure 21: Style Inspector example

Some features of the Style Inspector are of interest mainly to advanced users:

- The Style Inspector can show any hidden RDF (Resource Description Framework, a W3C standard) metadata at the cursor position associated with text spans, paragraphs, and bookmarks. For annotated text spans, “Nested Text Content” item can show the boundary of the nested annotated text ranges and metadata fields.
- Custom color metadata field shadings can be set for an annotated text range or a metadata field, for visualization of metadata categories in the document editor. Use **View > Field Shadings** or *Ctrl+F8* to disable or enable these field shadings.

For more information, see the Release Notes for LibreOffice 7.1 and 7.2 Community:

https://wiki.documentfoundation.org/ReleaseNotes/7.1#Style_inspector

https://wiki.documentfoundation.org/ReleaseNotes/7.2#RDF_metadata_in_Style_Inspector

https://wiki.documentfoundation.org/ReleaseNotes/7.2#Custom_color_metadata_field_shadings