Chapter 6
Formatting Graphic Objects
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Acknowledgments

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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.

<table>
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<tr>
<th>Windows or Linux</th>
<th>Mac equivalent</th>
<th>Effect</th>
</tr>
</thead>
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<tr>
<td>Tools &gt; Options</td>
<td>LibreOffice &gt; Preferences</td>
<td>Access setup options</td>
</tr>
<tr>
<td>menu selection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right-click</td>
<td>Control+click and/or right-click depending on computer setup</td>
<td>Open a context menu</td>
</tr>
<tr>
<td>Ctrl (Control)</td>
<td>⌘ (Command)</td>
<td>Used with other keys</td>
</tr>
<tr>
<td>F5</td>
<td>Shift+⌘+F5</td>
<td>Open the Navigator</td>
</tr>
<tr>
<td>F11</td>
<td>⌘+T</td>
<td>Open the Styles and Formatting window</td>
</tr>
</tbody>
</table>

Documentation for LibreOffice is available at http://www.libreoffice.org/get-help/documentation
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**Formatting objects**

This chapter describes how to format the graphic objects created with the available drawing tools. The format of each graphic object, in addition to its size, rotation and position on the slide, is determined by a number of attributes that define the line, text and area fill of each object. These attributes (among others) also contribute to a graphics style. Although this chapter discusses mainly the manual formatting of objects, it concludes by showing how to create, apply, modify and delete graphics styles.

**Formatting lines**

In LibreOffice the term *line* indicates both a freestanding segment and the outer edge of a shape. In most cases the properties of the line you can modify are its style (solid, dashed, invisible, and so on), its width and its color. Select the line you need to format and then use the controls on the Line and Filling toolbar to select your desired options (highlighted in Figure 1).

![Figure 1: Common line options on the Line and Filling toolbar](image)

To modify the appearance of a line, go to **Format > Line** on the main menu bar, or right-click on the line and select **Line** from the context menu, or select the **Line** icon on the Line and Filling toolbar to open the Line dialog (Figure 2) where you can set line properties. This dialog consists of four pages: **Line**, **Shadow**, **Line Styles**, and **Arrow Styles**.

**Line page**

The Line page is where you can set the basic parameters of the line. The page is divided into four sections: **Line properties**, **Arrow styles**, **Width**, and **Corner and cap styles**. At the bottom of the page is a preview of the applied styles for a line and two different corners, so you can evaluate the corner and cap style selections.

![Figure 2: Line dialog – Line page](image)
**Line properties**

The Line Properties section on the left side allows you to set the following parameters:

- **Line style** – several line styles are available from the drop-down list, but more line styles can be defined if necessary.

- **Color** – choose from the predefined colors in the drop down list or refer to “Custom colors” on page 13 to create a new color.

- **Width** – specifies the thickness of the line.

- **Transparency** – sets the transparency of a line. Figure 3 illustrates the effects of different percentages of transparency to lines when placed over an object.

![Figure 3: Line transparency effect](image)

**Arrow styles**

The Arrow styles section is only applicable to individual lines and is not used for lines that form the borders of an object. To create a new arrow style, see “Arrow styles page” on page 8.

- **Style** – sets the style of the two ends of a line. The left drop down menu is for where you start the line and the right drop down menu is for where you end the line.

- **Width** – specifies the thickness of the arrow endings

- **Center** – moves the center of the arrow endings to the end point of the line. Figure 4 shows the effects of selecting this option.

- **Synchronize ends** – makes the two line ends identical.

![Figure 4: Line arrow endings](image)

**Arrowheads**

A quick way to set the arrowheads for a selected line is to click on the Arrow Style icon in the Line and Filling toolbar (Figure 1) to open the Arrowheads toolbar (Figure 5). Use this toolbar to select one of the many predefined arrowhead styles for the start and ending of a selected line.

![Arrowheads toolbar](image)
Corner and cap styles

Corner and cap styles determine how the connection between two segments of a line looks. There are four available options for corner styles (none, Rounded, Mitered, Beveled) and three cap styles (Flat, Round, Square). To appreciate the difference between corner and cap styles, choose a thick line style and observe how the preview changes as you select each option.

Shadow page

Use the Shadow page of the Line dialog to add and format the line shadow. The settings on this page are the same as those for shadows applied to other objects and are described in Formatting shadows on page 20.

A quicker way to apply a shadow to a line is using the Shadow icon on the Line and Filling toolbar (Figure 1). The main disadvantage of using the Shadow icon is that the shadow appearance will be constrained by the shadow settings of the default graphics style.

Line styles page

Use the Line Styles page (Figure 6) of the Line dialog to create new line styles as well as loading previously saved line styles. It is recommended to create new styles when necessary than to modify the predefined styles.

To create a new line style:

1) Choose Format > Line from the menu bar, or right-click on the line and select Line from the context menu, or select the Line icon from the Line and Filling toolbar.

2) Click on the Line Styles tab.

3) Select from the Line style drop-down menu a style similar to the style you want to create.

4) Click Add. On the pop-up dialog, type a name for the new line style and click OK.

Figure 5: Arrowheads menu
Figure 6: Line dialog – Line Styles page

5) Now define the new style. Start by selecting the line type for the new style. To alternate two line types (for example, dashes and dots) within a single line, select different types in the two Type boxes.

6) Specify the Number and Length (not available for dot style) of each of the types of line selected.

7) Set the Spacing between the various elements

8) If necessary, select Fit to line width so that the new style fits the width of the selected line.

9) The new line style created is available only in the current document. If you want to use the line style in other presentations, click the Save Line Styles icon ☑️ and type a unique filename in the Save as dialog that opens. Saved styles have the file extension of .sod.

10) To use previously saved line styles, click the Load Line Styles icon 🗽 and select a style from the list of saved styles. Click Open to load the style into your presentation.

11) If necessary, click on the Modify button to change the name of the style.

Arrow styles page

Use the Arrow Styles page (Figure 7) of the Line dialog to create new arrow styles, or modify existing arrow styles, or load previously saved arrow styles.

1) First draw a curve in the shape you want to use for the arrowhead or create a shape and convert to a curve. The top of the shape must face upward, as shown in Figure 8, because this becomes the point of the arrow.

| Note | The arrowhead created must be convertible to a curve. A curve is something you can draw without lifting a pencil. For example, 🌟 can be converted to a curve, but 😞 cannot. |

Formatting Graphic Objects
2) Select the shape and, if necessary, right click and choose Convert > To Curve from the context menu to convert the shape to a curve. If the shape is already a curve, To Curve will not be available.

3) With the selection handles showing, select Format > Line from the menu bar, or right-click and choose Line from the context menu.

4) Go to the Arrow Styles page (Figure 7), click the Add button, type a name for the new arrow style and click OK. The new arrowhead style will be shown in the preview.

5) Now you can access the new style from the Arrow style list. When you select the name of the new style, it is shown at the bottom of the dialog.

6) The new arrowhead style created is available only in the current document. If you want to use this arrowhead style in other presentations, click the Save Line Styles icon and type a unique filename in the Save as dialog that opens. Saved styles have the file extension of .sod.

7) To use previously saved arrowhead styles, click the Load Line Styles icon and select the style from the saved list of styles. Click Open to load the style into your presentation.

8) If necessary, click on the Modify button to change the name of the style.

Figure 7: Line dialog – Arrow Styles page

Figure 8: Using a pentagon shape for arrow styles
Formatting area fills

The term **area fill** refers to the inside of an object that has an unbroken border, for example a rectangle, circle, star, pentagon and so on. An area fill can be a uniform color, gradient, hatching pattern, or bitmap (Figure 9). An area fill can also be made partly or wholly transparent and can throw a shadow.

The Line and Filling toolbar has several tools normally used to quickly format graphic objects. If this toolbar is not visible, go to **View > Toolbars > Line and Filling** on the menu bar. You can also use the Area dialog to quickly format objects, see “Using Area dialog” on page 10 for more information.

Once you have decided on a predefined or custom fill, you can further refine it by adding a shadow or transparency. See "Formatting shadows" on page 20 and “Formatting transparencies” on page 21 for more information.

![Different types of area fill](image)

**Figure 9: Different types of area fill**

Using Line and Filling toolbar

To quickly format an area fill of an object using the Line and Filling toolbar (Figure 10):

1. Select the object you wish to edit.
2. On the Line and Filling toolbar, click the left **Area Style/Filling** button and select the type of area fill (**Invisible**, **Color**, **Gradient**, **Hatching** or **Bitmap**) you want to use from the options listed in the drop-down list.
3. On the Line and Filling toolbar, click the right **Area Style/Filling** button and select the color or type of area fill you want to use from the options listed in the drop-down list. The available options change depending on the type of area fill selected. This button is not available when **Invisible** is selected for the area fill.

<table>
<thead>
<tr>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>If you do not require an area fill for an object, select <strong>Invisible</strong> from the options available when you click the left <strong>Area Style/Filling</strong> button on the Line and Filling toolbar.</td>
</tr>
</tbody>
</table>

Using Area dialog

To quickly format an area fill of an object using the Area dialog, use the following procedure. You can also use the Area dialog to create your own area fill.
1) Select the object you wish to edit.

2) Go to **Format > Area** on the menu bar, or click the **Area** icon on the Line and Filling toolbar, or right-click on the object and select **Area** from the context menu to open the Area dialog.

3) For color area fills, select **Color** from the drop down list and then select your required color from the list of available colors (Figure 11).

4) Click **OK** and the color will appear as an area fill in the selected object.

5) For gradient area fills, select **Gradient** from the drop down list and then select your required gradient from the list of available gradients (Figure 12).

6) To override the number of steps (increments) that are applied to the gradient transition in a gradient fill, deselect **Automatic** in **Increments** and then enter the number of steps required in the text box on the right.

7) Click **OK** and the gradient will appear as an area fill in the selected object.

8) For hatching area fills, select **Hatching** from the drop down list and then select your required hatching from the list of available hatchings (Figure 13).

9) Select **Background color** and select a background color for the hatching from the drop down list.

10) Click **OK** and the hatching will appear as an area fill in the selected object.

11) For bitmap area fills, select **Bitmaps** from the drop down list and then select your required bitmap from the list of available bitmaps (Figure 14).

12) Set the **Size**, **Position** and **Offset** options as necessary. See Table 1 for more information on bitmap options.

13) Click **OK** and the bitmap will appear as an area fill in the selected object.
Table 1: Bitmap options

<table>
<thead>
<tr>
<th>Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size – Original</td>
<td>Retains the original size of the bitmap when filling the selected object. To resize the bitmap, clear this checkbox</td>
</tr>
<tr>
<td>Size – Relative</td>
<td>When selected, <em>Relative</em> rescales the bitmap relative to the size of the bitmap by percentage values entered in the <em>Width</em> and <em>Height</em> boxes. Clear this checkbox to resize the bitmap using the linear measurements entered in the <em>Width</em> and <em>Height</em> boxes.</td>
</tr>
<tr>
<td>Size – Width</td>
<td>Enter a width for the bitmap. When <em>Relative</em> is selected 100% means that the original bitmap width will be resized to occupy the whole fill area width; 50% means that the width of the bitmap will be half that of the fill area.</td>
</tr>
<tr>
<td>Size – Height</td>
<td>Enter a height for the bitmap. When <em>Relative</em> is selected 100% means that the original bitmap height will be resized to occupy the whole fill area height; 50% means that the height of the bitmap will be half that of the fill area.</td>
</tr>
<tr>
<td>Position – Anchor Point</td>
<td>Click in the position grid to specify an anchor point for the offset for tiling the bitmap.</td>
</tr>
<tr>
<td>Position – X offset</td>
<td>When <em>Tile</em> is selected, enter a horizontal offset from the anchor point for the bitmap in percentage values.</td>
</tr>
<tr>
<td>Option</td>
<td>Meaning</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Position – Y offset</td>
<td>When Tile is selected, enter a vertical offset from the anchor point for the bitmap in percentage values.</td>
</tr>
<tr>
<td>Position – Tile</td>
<td>Tiles the bitmap to fill the selected object. The size of the bitmap used for the tiling is determined by the Size options.</td>
</tr>
<tr>
<td>Position – Autofit</td>
<td>Stretches the bitmap to fill the selected object. To use Autofit, uncheck the Tile option. Selecting Autofit disables all size settings.</td>
</tr>
<tr>
<td>Offset – Row</td>
<td>When Tile is selected, offsets the rows of tiled bitmaps by the entered percentage value so that each row is offset from the previous row.</td>
</tr>
<tr>
<td>Offset – Column</td>
<td>When Tile is selected, offsets the columns of tiled bitmaps by the entered percentage value so that each column is offset from the previous column.</td>
</tr>
</tbody>
</table>

**Creating new area fills**

The following sections describe how to create new fills and how to apply them.

Although you can change the characteristics of an existing fill and then click the Modify button, it is recommended that you create new fills or modify custom fills rather than the predefined area fills, as these predefined area fills may be reset when updating LibreOffice.

**Custom colors**

On the Colors page of the Area dialog (Figure 15), you can modify existing colors or create your own. You can specify a new color either as a combination of the three primary colors Red (R), Green (G), and Blue (B), (RGB notation) or by percentages of Cyan (C), Magenta (M), Yellow (Y) and Black (K) (CMYK notation).

![Figure 15: Area dialog – Colors page](image-url)
Creating new colors

1) Enter a name for the color you want to create in the Name box.
2) Select whether to define the color in RGB or CMYK. For RGB, specify the RGB components on a 0 to 255 scale. For CMYK, specify the CMYK components from 0% to 100%.
3) Click the Add button. The color is now added to the Color drop down list.

Modifying colors

1) Select the color you want to modify from the Color drop down list.
2) Select either RGB or CMYK and enter the new values to define the color.
3) If necessary, type a new name in the Name box.
4) Click Modify and the modified color is saved.

Editing colors

1) Click Edit to open the Color Picker dialog (Figure 16).
2) Modify the color components as required using either RGB, CMYK or HSB (Hue, Saturation, Brightness) values.
3) Click OK to close the Color Picker dialog.
4) Click the Modify button on the Color dialog.
5) Click OK to save the changes and close the Area dialog.

Figure 16: Color Picker dialog

Saving and using custom colors
Any new color created or modified is available only in the current document. If you want to use this color in other presentations, click the Save Color List icon and type a unique filename in the Save as dialog that opens. The file created for a list of saved colors has the file extension of .soc.
To use a previously saved color list, click the Load Color List icon and select the file used for a custom color list from the file open dialog. Click Open to load the saved color list into Impress.

**Tip**
You can also add custom colors using Tools > Options > LibreOffice > Colors. This method makes the color available to all components of LibreOffice. Colors created using the above procedures are only available for Impress.

### Custom gradients

On the Gradients page of the Area dialog (Figure 17), you can modify existing gradients or create your own gradient. Several types of gradients are predefined in LibreOffice and changing the From and To colors could be sufficient to obtain a satisfactory result.

**Creating or modifying gradients**

1. Select a gradient type from the Type drop down list: Linear, Axial, Radial, Ellipsoid, Square or Rectangular.
2. Alternatively, select one of the predefined gradient types shown in the preview box.
3. Adjust the option settings as necessary. The options used to create a gradient are summarized in Table 2. Depending on the gradient type selected, some options will not be available.
4. Click Add to add the newly created gradient to the list.
5. It is recommended to type a memorable name for the new gradient instead of using the default name of Gradient 1, Gradient 2 and so on.
6. Click OK to save the new gradient.
7. Click OK to close the Area dialog.

![Figure 17: Area dialog – Gradients page](image)
Table 2: Gradient options

<table>
<thead>
<tr>
<th>Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center X</td>
<td>For Radial, Ellipsoid, Square and Rectangular gradients, modify these values to set the horizontal offset of the gradient center.</td>
</tr>
<tr>
<td>Center Y</td>
<td>For Radial, Ellipsoid, Square and Rectangular gradients, modify these values to set the vertical offset of the gradient center.</td>
</tr>
<tr>
<td>Angle</td>
<td>For all the gradient types, specifies the angle of the gradient axis.</td>
</tr>
<tr>
<td>Border</td>
<td>Increase this value to make the gradient start further away from the border of the object.</td>
</tr>
<tr>
<td>From</td>
<td>The start color for the gradient. In the edit box below enter the intensity of the color: 0% corresponds to black, 100% to the full color.</td>
</tr>
<tr>
<td>To</td>
<td>The end color for the gradient. In the edit box below enter the intensity of the color: 0% corresponds to black, 100% to the full color.</td>
</tr>
</tbody>
</table>

**Saving and using custom gradients**

Any new gradient created or modified is available only in the current document. If you want to use this gradient in other presentations, click the Save Gradients List icon and type a unique filename in the Save as dialog that opens. The file created for a list of saved gradients has the file extension of .sog.

To use a previously saved gradients list, click the Load Gradients List icon and select the file used a custom gradient list from the file open dialog. Click Open to load the saved gradients list into Impress.

**Advanced gradient controls**

Gradient properties can be configured using the options given in Figure 17 and Table 2. Impress provides a graphical interface for modifying these gradient options using only the mouse as follows.

1) Select an object that has a gradient and open the Mode toolbar by going to View > Toolbars > Mode (Figure 18).

2) Open the Gradient page of the Area dialog, see “Creating or modifying gradients” above.

3) Click on the Gradient icon in the Mode toolbar to display a dashed line connected to squares at each end of the dashed line. The colors displayed in the two squares show the From and To colors used for the selected gradient (Figure 19).

4) The gradient used for area fill in the object is adjusted as follows depending on the type of gradient:
   - **Linear gradients** – move the square corresponding to the From color to change where the gradient starts (border value). Move the square corresponding to the To color to change the orientation (angle value).
Axial gradients – only the To color can be moved to change both the angle and border properties of the gradient.

Figure 19: Using mouse to change gradient options

Radial gradients – move the From color to modify the border property to set the width of the gradient circle. Move the To color to change the point where the gradient ends (Center X and Center Y values).

Ellipsoid gradients – move the From color to modify the border property to set the size of the gradient ellipsoid. Move the To color to change the angle of the ellipsoid axis and the axis itself.

Square and rectangular gradients – move the From color to modify the border to set the size of the gradient square or rectangle and the angle of the gradient shape. Move the To color to change the center of the gradient.

5) When you are satisfied with the changes, click anywhere outside the selected object to deselect it.

Note: Moving the squares will have different effects depending on the type of gradient. For example, for a linear gradient, the start and end squares of the gradient will always be situated to either side of the center point of the object.

Custom hatching patterns

To create new hatching patterns or modify existing hatching patterns, select the Hatching tab of the Area dialog (Figure 20). The options that can be set for a hatching pattern are explained in Table 3.

Creating or modifying hatching patterns

1) Select one of the predefined gradient types shown in the preview box
2) Modify the options of the lines forming the pattern. A preview is displayed in the window below the available patterns.
3) Click Add to add the newly created hatching pattern to the list.
4) It is recommended to type a memorable name for the new gradient instead of using the default name of Hatching 1, Hatching 2 and so on.
5) Click OK to save the new hatching pattern.
6) Click OK to close the Area dialog.
Table 3: Hatching pattern options

<table>
<thead>
<tr>
<th>Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacing</td>
<td>Determines the spacing between two lines of the pattern. As the value is changed the preview window is updated.</td>
</tr>
<tr>
<td>Angle</td>
<td>Use the mini map below the numerical value to quickly set the angle formed by the line to multiples of 45 degrees. If the required angle is not a multiple of 45 degrees, just enter the desired value in the edit box.</td>
</tr>
<tr>
<td>Line type</td>
<td>Set single, double or triple line for the style of the pattern.</td>
</tr>
<tr>
<td>Line color</td>
<td>Use the list to select the color of the lines that will form the pattern.</td>
</tr>
</tbody>
</table>

**Saving and using custom hatching patterns**

Any new hatching pattern created or modified is available only in the current document. If you want to use this hatching pattern in other presentations, click the **Save Hatches List** icon and type a unique filename in the **Save as** dialog that opens. The file created for a list of saved hatching patterns has the file extension of .soh.

To use a previously saved hatching patterns list, click the **Load Hatches List** icon and select the file used for a custom hatching patterns list from the file open dialog. Click **Open** to load the saved hatching patterns list into Impress.

**Custom bitmap fills**

**Creating bitmap fills**

1) Select **Blank** as the bitmap type from the preview list on the **Bitmap** page of the Area dialog to activate the **Pattern Editor** (Figure 21).

2) Select the **Foreground** and **Background** colors you want to use for your bitmap from the drop down lists.
3) Start creating the pattern by clicking in the squares (pixels) that you want in the foreground color. The background color will automatically fill the grid used for the Pattern Editor when you select the color.

4) Check the preview window to see the effect being achieved as you click the mouse button in a square.

5) When satisfied with your bitmap, click Add to save the bitmap.

6) Enter a memorable name for your bitmap in the Name dialog that opens. It is recommended not to use the default names of Bitmap 1, Bitmap 2 and so on if you want to reuse the bitmap you have just created.

7) Click OK and your bitmap is added to the preview list and is used as an area fill for your selected object.

**Modifying bitmaps**

Modifying a bitmap that you created creates a copy of the bitmap so that you can edit the bitmap pattern.

1) Select a bitmap pattern that you created from the preview list on the Bitmap page of the Area dialog (Figure 21).

2) Click Modify and type a new name for the bitmap in the Name dialog that opens.

3) Click OK.

4) Select the newly named bitmap from the preview list and modify the pattern. See “Creating bitmap fills” above for more information.

**Importing bitmaps**

1) Click Import on the Bitmap page of the Area dialog (Figure 21).

2) Browse to the directory containing the bitmap file you want to import and select it.

3) Click Open and type a name for the imported bitmap.

4) Click OK and your imported bitmap is added to the preview list and is used as an area fill for your selected object.
Saving and using custom bitmaps
Any new bitmap created or modified is available only in the current document. If you want to use a custom bitmap in other presentations, click the Save Bitmap List icon and type a unique filename in the Save as dialog that opens. The file created for a list of saved bitmaps has the file extension of .sob.

To use a previously saved hatching patterns list, click the Load Bitmap List icon and select the file used for a bitmaps list from the file open dialog. Click Open to load the saved bitmap list into Impress.

Formatting shadows
Shadows can be applied to objects such as lines, shapes and text. In Impress you can quickly apply a default shadow or apply a customized shadow.

Default shadows
Default shadows use the Impress default settings and cannot be customized.

1) Select the object.
2) Click on the Shadow icon in the Line and Filling toolbar and a shadow is applied to the object.

Customizing shadows
To apply a customized shadow to an object, you have to use the Shadow on the Area dialog. An alternative method for using customized shadows is to apply a style that uses a shadow See “Working with graphics styles” on page 25 for additional information on using styles.

1) Select the object and then select Format > Area on the main menu bar, or right click on the object and select Area from the context menu to open the Area dialog.
2) Click on the Shadow tab to open the Shadow page (Figure 22).

Figure 22: Area dialog – Shadow page
3) Select *Use shadow* and set the shadow options as follows:
   - **Position** – selects the point determining the direction in which the shadow is cast.
   - **Distance** – determines the offset distance between the object and the shadow.
   - **Color** – sets the color used for the shadow.
   - **Transparency** – determines the amount of transparency for the shadow: 0% opaque shadow, 100% transparent shadow.

4) Click **OK** and the customized shadow is applied to the object.

### Formatting transparencies

Transparencies can be applied to objects and to any shadow that has been applied to an object. In Impress two types of transparencies can be applied to an object – uniform transparency and gradient transparency. For more information on gradient transparencies, including an example of combining a color gradient with a gradient transparency, see “Advanced gradient controls” on page 16.

To apply transparencies to lines, refer to “Formatting lines” on page 5 for more information. To apply transparencies to shadows, refer to “Formatting shadows” on page 20 for more information.

1) Select the object and then select **Format > Area** on the main menu bar, or right click on the object and select Area from the context menu to open the Area dialog.

2) Click on the **Transparency** tab to open the Transparency page (Figure 23).

3) To create a uniform transparency, select **Transparency** and then select the percentage of transparency required.

4) To create a gradient transparency so that the area becomes gradually transparent, select **Gradient** and then set the options for the gradient. Refer to Table 4 for a description of the options available for gradient transparencies.

5) Click **OK** and the transparency is applied to the object.

![Figure 23: Area dialog – Transparency page](image-url)
Table 4: Gradient transparency options

<table>
<thead>
<tr>
<th>Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Select the type of transparency gradient you want to apply.</td>
</tr>
<tr>
<td>Center X</td>
<td>Radial, Ellipsoid, Quadratic and Square gradients – modify this value to set the horizontal offset of the gradient center.</td>
</tr>
<tr>
<td>Center Y</td>
<td>Radial, Ellipsoid, Quadratic and Square gradients – modify this value to set the vertical offset of the gradient center.</td>
</tr>
<tr>
<td>Angle</td>
<td>Linear, Axial, Ellipsoid, Quadratic and Square gradient – specifies the angle of the gradient axis.</td>
</tr>
<tr>
<td>Border</td>
<td>Increase this value to make the gradient start further away from the border of the object.</td>
</tr>
<tr>
<td>Start value</td>
<td>Value for the starting transparency gradient. 0% is fully opaque, 100% is fully transparent.</td>
</tr>
<tr>
<td>End value</td>
<td>Value for the ending transparency gradient. 0% is fully opaque, 100% is fully transparent.</td>
</tr>
</tbody>
</table>

Formatting text in objects

Impress provides two dialogs related to text formatting on the main menu bar: Format > Character for individual characters and Format > Text for whole words, sentences or paragraphs.

This section only covers the formatting of text which has been added to an object. For more information on formatting text that is used separately on a slide, see Chapter 3 Adding and Formatting Text.

Adding text to objects

To add text to an object:
1) Select the object to which text will be added so that the selection handles are showing.
2) Double-click on the object and the cursor becomes an I-beam to indicate text mode.
3) Type your text.
4) When finished, click outside of the object or press Esc.

Formatting and editing text in objects

To format text that has been placed into an object:
1) Select the object which contains text.
2) Select the object and go to Format > Text on the main menu bar or right-click on the object and select Text from the context menu to open the Text dialog (Figure 24).
3) Format and edit the text using the available options. Some options will not be available depending on the type of object to which the text has been added.
   - **Fit width to text** – expands the width of the object if the text is too long.
   - **Word wrap text in shape** – starts a new line automatically when the edge of the object is reached.
   - **Fit height to text** – expands the object height whenever it is smaller than the text (set by default for lines).
Resize shape to fit text – expands an object when the text inserted in the object is too large.

Fit to frame – expands the text so that it fills all the available space.

Adjust to contour – makes the text follow a curved line.

Spacing to borders – specify the amount of space to be left between the borders of the object and the text. This is similar to setting indentation and spacing for paragraphs.

Text anchor – used to anchor the text to a particular point within the object.

Full width – when selected, anchors the text in the center of the object and uses the full width of the object before wrapping text.

4) Click OK to close the dialog and save the changes to the text.

Text animation

To animate text that has been placed into an object:

1) Select the object which contains text.

2) Select the object and go to Format > Text on the main menu bar or right-click on the object and select Text from the context menu to open the Text dialog (Figure 24).

3) Click the Text Animation tab to open the Text Animation dialog (Figure 25).

4) Select the type of animation required from the Effects drop down list as follows:

   No animation – default setting.
   Blink – the text will blink on the screen.
   Scroll through – the text will move into the object and then out following the selected direction.
   Scroll back and forth – the text will move first in the selected direction, but will bounce back at the object border.
   Scroll in – the text will scroll in towards the given direction starting from the edge of the object and stop in the center.
5) Set the properties for the animation effect as follows:
   - **Direction** – use one of the four arrows to set the scroll direction for the text.
   - **Start inside** – animation starts from inside the object.
   - **Text visible when editing** select to see the text while editing.
   - **Animation cycles** – select **Continuous** and the text animates continuously or set a specific number of cycles for the animation.
   - **Increment** – sets the amount the animation moves in either **Pixels** or a specific distance. Units of measurement depend on the settings in **Tools > Options > LibreOffice Impress > General**.
   - **Delay** – sets the delay time either **Automatically** or a specific length of time before the animation starts.

6) Click **OK** to close the dialog and save the animation effect.

### Formatting connectors

Connectors are lines that join two shapes and always start from or finish at a glue point on an object. Refer to *Chapter 5 Managing Graphic Objects* for a description and use of the connectors.

Connectors are formatted as follows:

1) Right-click on a connector and select **Connector** from the context menu to open the context dialog (Figure 26).
2) Set the type of connector from the **Type** drop down list.
3) Set the **Line skew** for the connector. Line skew is used where multiple connectors overlap to set the distance between the lines. You can customize the distance between three different lines.
4) Set the **Line spacing** for the connector. Line spacing is used to set the horizontal and vertical space between the connector and the object at each end of the connector.
5) Click **OK** to close the dialog and save the changes.
Working with graphics styles

To achieve consistency in styles in slides, or a presentation, or to apply the same formatting to a large number of objects, it is recommended to use a graphics style.

Graphics styles are similar to paragraph styles that are used for text. A graphics style groups all the formatting properties applicable to a graphic object and then associates this group of properties with a name allowing it to be used for other graphic objects. If a graphics style is modified (for example, changing an area transparency), the changes are automatically applied to all objects that use the same graphics style.

If you use Impress frequently, a library of well-defined graphics styles is an invaluable tool for speeding up the process of formatting your work according to any style guidelines you may need to follow (company colors, fonts and so on).

Linked graphics styles

Graphics styles support inheritance which allows a style to be linked to another (parent) style so that it inherits all the formatting settings of the parent. This inheritance creates families of styles.

For example, if you require multiple boxes that differ in color, but are otherwise identically formatted, the best way to proceed is to define a generic style for the box including borders, area fill, font, and so on and a number of hierarchically dependent styles which differ only in the fill color attribute. If you need to change the font size or the thickness of the border, you only have to change the parent style and all the other styles will change accordingly.

Creating graphics styles

You can create a new graphics style either by using the Style and Formatting dialog or from a selection.

Using the Styles and Formatting dialog

1) Select a graphic object.
2) Press the F11 key, or click on the Styles and Formatting icon on the Line and Filling toolbar, or select Format > Styles and Formatting on the main menu bar to open the Styles and Formatting dialog (Figure 27).

![Styles and Formatting](image)

*Figure 27: Graphics Styles and Formatting*

3) Click on the Graphics Styles icon on the to access graphic styles.

4) Select the style similar to the one you want to use in the Styles and Formatting dialog.

5) Right click and select New from the context menu to open the Graphics Styles dialog (Figure 28). By default, this will link the selected graphics style with the new graphics style.

6) To create a graphics style without linking, select None from the Linked with drop down menu on the Organizer page.

7) Give your new graphics style a memorable name.

8) Use the various tabs and text boxes in the Graphics Styles dialog to format and categorize your new style as follows:

   - **Organizer** – contains a summary of the style and its hierarchical position.
   - **Font, Font Effects, Indents & Spacing, Alignment, Tabs and Asian Typography** – set the properties of the text inserted in a graphic object.
   - **Dimensioning** – used to set the style of dimension lines.
   - **Text, Text Animation, Connector, Line, Area, Shadowing, and Transparency** – determine the formatting of a graphic object and are discussed elsewhere in this chapter.

9) Click OK when finished to save your new graphics style.

| Note | When styles are linked, changing the font for example will change the font in all linked styles. Sometimes this is exactly what you want; at other times you do not want the changes to apply to all linked styles. It pays to plan ahead. |
From a selected object
You can create a new style from an object that has already been formatted. This can be text or graphics:

1) Select the object you want to use to create your new style.

2) Open the Styles and Formatting dialog and click the **New Style from Selection** icon.

3) In the Create Style dialog (Figure 29) that opens type a name for the new style. The list shows existing custom styles of that are available.

4) Click **OK** to save the new style.

![Create Style Dialog](image)

**Figure 29: Naming a new style created from a selection**

Modifying a graphics style

1) Open the Styles and Formatting dialog.

2) Right-click on the style you want to modify and select **Modify** from the context menu to open the Graphics Style dialog (Figure 28).

3) Make the required changes to the style and then click **OK** to save the changes.

Updating a graphics style from a selection

To update a style from changes you have made to a selected object:

1) Select an object that uses the format you want to adopt as a style.

2) Open the Styles and Formatting dialog and select the style you want to update.

3) Click the **Update Style** icon and the style is updated with your changes.

**Tip**

Any changes you make to a style are effective only in the document on which you are working and do not go into change the associated template. If you want the changes to apply to more than one document, you need to change the template (see *Chapter 2 Using Slide Masters, Styles, and Templates* for more information).
Applying graphics styles

Use the following steps to apply a graphics style to an object.

1) Open the Styles and Formatting dialog (Figure 27) and click on the Graphics Styles icon on the to access graphic styles.
2) Select the object to which you want to apply a graphics style.
3) Double-click on the name of the style you want to apply.
4) Alternatively, click on the Fill Format Mode icon and the cursor changes to this icon.
5) Position the icon on the graphic object to be styled and click the mouse button. This mode remains active until you turn it off, so you can apply the same style to several objects.
6) To quit Fill Format mode, click the Fill Format mode icon again or press the Esc key.

Note
When Fill Format mode is active, a right-click anywhere in the document cancels the last Fill Format action. Take care not to accidentally right-click and undo any actions you want to keep.

Tip
At the bottom of the Styles and Formatting window is a drop-down list. You can choose to show all styles or groups of styles such as applied styles or (in the case of graphics styles) custom styles.

Deleting graphics styles

You cannot delete any of the predefined styles in Impress, even if you are not using them. You can only delete user-defined (custom) styles. However, before you delete a custom style, make sure the style is not in use. If an unwanted style is in use, replace it with a substitute style.

1) Open the Styles and Formatting dialog (Figure 27) and click on the Graphics Styles icon on the to access graphic styles.
2) Right-click on a custom graphic style and click Delete on the context menu. You can only delete one custom graphics style at a time.
3) Click Yes to confirm the deletion of the graphics style.

Assigning styles to shortcut keys

LibreOffice provides a set of predefined keyboard shortcuts which allow you to quickly apply styles while working with a document. You can redefine these shortcuts or define your own, as described in Appendix A Keyboard Shortcuts.