



LibreOffice



Getting Started Guide

Chapter 11

Images and Graphics

Pictures, Drawing Tools, Gallery, Fontwork

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Note

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Using LibreOffice on macOS

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

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

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Introduction

You can add graphic and image files, including photos, drawings, and scanned images, to LibreOffice documents. LibreOffice can import various vector (line drawing) and raster (bitmap) file formats. The most commonly used graphic formats are GIF, JPG, PNG, and BMP. See Appendix B for a full list of the graphic formats LibreOffice can import.

Images in LibreOffice are of these basic types:

- Image files, such as photos, drawings, PDF documents, and scanned images
- Diagrams created using LibreOffice's drawing tools
- Artwork created using clip art or Fontwork
- Charts created using LibreOffice's Calc component

This chapter covers images, diagrams, and Fontwork.

More detailed descriptions on working with drawing tools can be found in the *Draw Guide* and *Impress Guide*. Instructions on how to create charts are given in the *Calc Guide*.

Creating and editing images

You might create images using a graphics program, scan them, or download them from the Internet (make sure you have permission to use them), or use photos taken with a digital camera. LibreOffice can import various vector (line drawing) images, and can rotate and flip such images. LibreOffice also supports raster (bitmap) file formats, the most common of which are GIF, JPG, PNG, and BMP. It can also import SmartArt images from Microsoft Office files.

To edit photos and other bitmap images, use a bitmap editor. To edit line drawings, use a vector drawing program. You do not need to buy expensive programs. For many graphics, LibreOffice Draw is sufficient. Open-source (and usually no-cost) tools such as GIMP (bitmap editor) and Inkscape (vector drawing program) are excellent. These and many other programs work on Windows, macOS, and Linux.

Adding images to a document

Images can be added to a document in several ways: by inserting an image file, directly from a graphics program or a scanner, by dragging them from the clip art internal gallery, or by copying and pasting from a source being viewed on your computer.

Inserting an image file

When the image is in a file stored on the computer, you can insert it into a LibreOffice document using one of the following methods:

Drag and drop

This method embeds (saves a copy of) the image file in the document. To link the file instead of embedding it, hold down the *Ctrl+Shift* keys while dragging the image.

- 1) Open a file browser window and locate the image you want to insert.
- 2) Drag the image into the LibreOffice document and drop it where you want it to appear. A faint vertical line marks where the image will be dropped.

Insert Image dialog

- 1) Click in the LibreOffice document where you want the image to appear.
- 2) Choose **Insert > Image** on the Menu bar or click the **Insert Image** icon on the Standard toolbar.

- 3) On the Insert Image dialog, navigate to the file to be inserted, and select it.
- 4) At the bottom of the dialog (Figure 1) is a **Link** option. See page 7 for the use of **Link**.
- 5) Click **Open**.

✓ Note

If you choose the **Link** option, a message box appears when you click **Open**. It asks if you want to embed the graphic instead. Choose **Keep Link** if you want the link, or **Embed Graphic** if you do not. To prevent this message from appearing again, deselect the option **Ask when linking a graphic** at the bottom of the message.

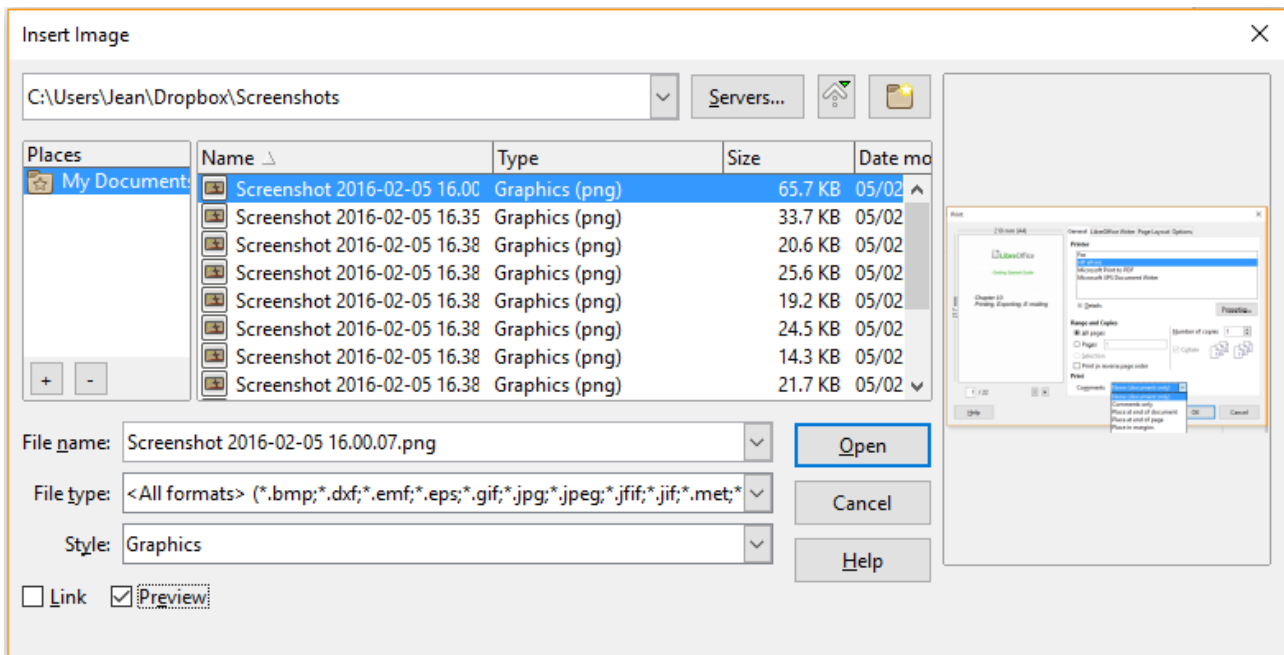


Figure 1: Insert Image dialog

Copy and paste

Using the clipboard, you can copy images into a LibreOffice document from another LibreOffice document and from other programs. To do this:

- 1) Open both the source document and the target document.
- 2) In the source document, select the image to be copied.
- 3) Depending on the program used to open the source document, perform the interactions necessary to copy the image to the clipboard.
- 4) Switch to the target document.
- 5) Click to place the cursor where the image is to be inserted.
- 6) Press **Ctrl+V**, or right-click and select **Paste** in the context menu, or click the **Paste** icon on the Standard toolbar, to insert the image.

! Caution

If the application from which the image was copied is closed before the image is pasted into the target, the image stored in the clipboard could be lost.

Linking an image file

If the **Link** option in the Insert Image dialog is selected, LibreOffice creates a link to the file containing the image instead of saving a copy of the image in the document. The result is that the image is displayed in the document, but when the document is saved, it contains only a reference to the image file, not the image itself. The document and the image remain as two separate files, and they are merged together only when you open the document again.

Linking an image has two advantages and one disadvantage:

- Advantage – You can modify the image file separately without changing the document because the link to the file remains valid, and the modified image will appear when you next open the document. This can be a big advantage if you (or someone else, perhaps a graphic artist) is updating images.
- Advantage – Linking can reduce the size of the document when it is saved, because the image file itself is not included. File size is usually not a problem on a modern computer with a reasonable amount of memory, unless the document includes many large image files; LibreOffice can handle quite large files.
- Disadvantage – If you send the document to someone else, or move it to a different computer, you must also send the image files, or the receiver will not be able to see the linked images. You need to keep track of the location of the images and make sure the recipient knows where to put them on another machine, so that the document can find them. For example, you might keep images in a subfolder named Images (under the folder containing the document); the recipient of the file needs to put the images in a subfolder with the same name and in the same place relative to the document.

Note

When inserting the same image several times in the document, LibreOffice embeds only one copy of the image file.

Embedding linked images

If you originally linked the images, you can easily embed one or more of them later if you wish.

- 1) Open the document in LibreOffice and choose **Edit > Links to External Files**.
- 2) In the Edit Links dialog (Figure 2), select the files you want to change from linked to embedded.
- 3) Click the **Break Link** button and click **Yes** to confirm embedding the image.

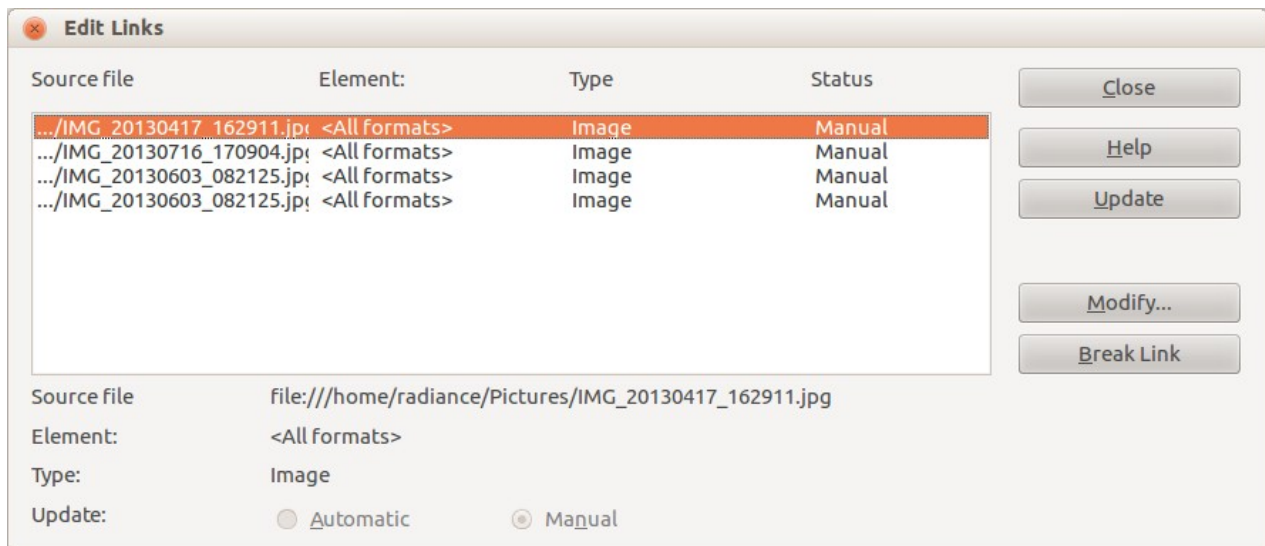


Figure 2: The Edit Links dialog

Inserting an image using a scanner

If a scanner is connected to your computer, LibreOffice can call the scanning application and insert the scanned item into the LibreOffice document as an image. To start this procedure, choose **Insert > Media > Scan > Select Source** on the Menu bar. Then place the cursor where you want the graphic to be inserted, and choose **Insert > Media > Scan > Request**.

Although this practice is quick and easy, it is unlikely to result in a high-quality image of the correct size. You may get better results by scanning material into a graphics program and cleaning it up there before inserting the resulting image into LibreOffice.

Inserting an image from the Gallery

The Gallery (Figure 3) provides a convenient way to group reusable objects such as graphics and sounds that you can insert into your documents. The Gallery is available in the Writer, Calc, Impress, and Draw components of LibreOffice. See “Managing the LibreOffice Gallery” on page 12. You can copy or link an object from the Gallery into a document.

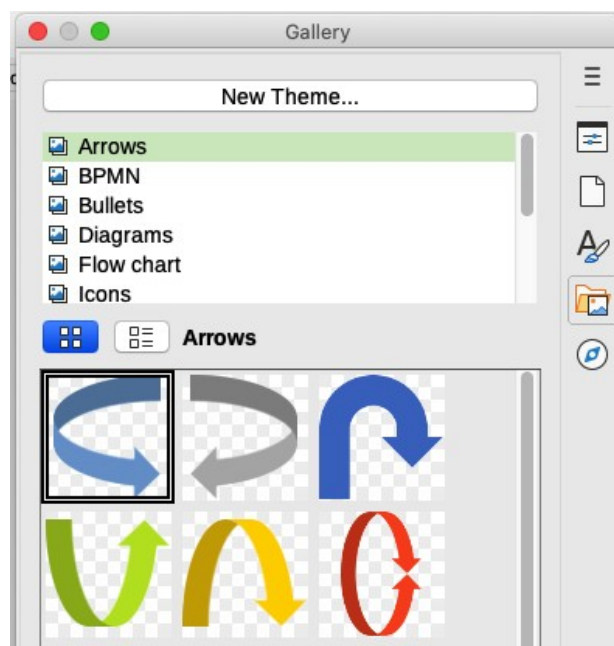


Figure 3: The Gallery in Icon View

To insert an object from the Gallery into a document:

- 1) Click the **Gallery** icon on the Sidebar.
- 2) Select a theme from the list provided.
- 3) Select an object with a single click.
- 4) Drag and drop the image into the document, or right-click on the object and choose **Insert**.

To insert an object as a link, hold down the *Shift* and *Ctrl* keys and drag and drop the object into the document.

Modifying, handling, and positioning images

LibreOffice provides many tools for cropping, resizing, modifying, filtering, and positioning images; wrapping text around images; and using images as backgrounds and watermarks. These tools are described in relevant chapters of the other guides. Some sophisticated adjustments are best done in an image manipulation program and the results brought into LibreOffice, rather than using LibreOffice's built-in tools.

Using the Image toolbar

When you insert an image or select one already present in the document, the Image toolbar appears. Two other toolbars can be opened from this one: the Image Filter toolbar, which can be torn off and placed elsewhere on the window, and the Color toolbar, which opens as a separate floating toolbar. From these three toolbars, you can apply small corrections to the image or obtain special effects: transparency, color adjustment, flipping and rotating, and applying special-effects filters. For more information, see the *Writer Guide*.

Cropping images

When you are only interested in a section of the image for the purpose of your document, you may wish to crop (cut off) parts of it. LibreOffice provides two ways to crop an image: the Crop Image tool and the *Crop* tab of the Image dialog (accessed by right-clicking on the image in Writer and selecting the Properties option in the context menu). The Crop Image tool provides a quick and easy way to crop an image; but for more control, use the Image dialog.

Note

If you crop an image in LibreOffice, the image itself is not changed. LibreOffice hides, not cuts off, part of the image. If you export the document to HTML, the original image is exported, not the cropped image. For export, crop images in an external editor.

Resizing an image

To fit the image into your document, you may need to resize it. A quick and easy way to resize is by dragging the image's sizing handles:

- 1) Click the image, if necessary, to show the sizing handles.
- 2) Position the pointer over one of the sizing handles. The pointer changes shape, giving a graphical representation of the direction of the resizing.
- 3) Click and drag to resize the image.

Tip

The corner handles resize both the width and the height of the image simultaneously, while the other four handles resize only one dimension at a time. To retain the original proportions of the image, hold down the *Shift* key while dragging one of these handles.

For more accurate resizing of images, use the *Type* tab of the Image dialog.

Rotating or flipping an image

To quickly flip an image vertically or horizontally, or rotate it, right-click the image and select **Rotate or Flip** in the context menu, then choose the desired option from the submenu.

Writer provides more rotation options than the other LibreOffice components – see the *Writer Guide* for more information.

Other settings

The Image dialog has the following tabs:

- **Type:** define the size and anchor of the image and its position on the page.
- **Options:** give the image a descriptive name, define the alternative text to be displayed when the mouse hovers over the image, and protect some of the image settings from changes.
- **Wrap:** choose how text wraps around the image, and the spacing between the image and the text.
- **Hyperlink:** associate a hyperlink to the image, or create an image map.
- **Image:** flip or rotate the image, and display the original location of the file in case the image is linked rather than embedded.
- **Crop:** cut off portions of the image, scale it and set its size.
- **Borders:** create borders around the image and add a shadow.
- **Area:** change the background (color, bitmap, gradient, pattern, or hatching) of the image. This setting produces the desired results only for images with a transparent color.
- **Transparency:** set the transparency and gradient options for the image.
- **Macro:** associate a macro to the image. You can choose among the predefined macros or write your own.

Saving modified images

In previous versions of LibreOffice, if you saved an embedded image (by right-clicking and choosing **Save** in the context menu), the saved image was the original one; modifications like rotations, cropping, and color effects were not included in the saved image.

Starting from LibreOffice 6, you can choose whether to save the original image or the modified image through a confirmation dialog that pops up when you choose **Save**.

Exporting images

If you need to make complex adjustments to the image, or want to save the image for use in another document, you can export the image directly from your document. Right-click on the image to open the context menu. Then choose **Save** to open the Image Export dialog. Depending on the original format of the image, LibreOffice will let you save the picture in many different formats. Give a name to the image, select the desired image format in the file type filter

list, and click **Save**. Before the image is finally saved another dialog (not shown) opens, where you can choose various image size and format options. The content of this dialog depends on the output file type selected.

Compressing images

If you insert a large image in your document and resize it to fit into the layout of the page, the complete full-size original image is stored in the document file to preserve its content, resulting in a large document file to store or send by mail.

If you can accept some loss of quality of the image rendering or want to resize it, you can compress or resize the image object to reduce its data volume while preserving its display in the page layout.

Right-click to select the image and open the context menu. Then choose **Compress** to open the Compress Image dialog (Figure 4). Note that the **Calculate New Size** button updates the image information on the dialog on each parameter set you change. Click **OK** to apply the compression settings. If the resulting image is not acceptable, press *Ctrl+Z* to undo and choose another compression setting. For more information, see the Help.

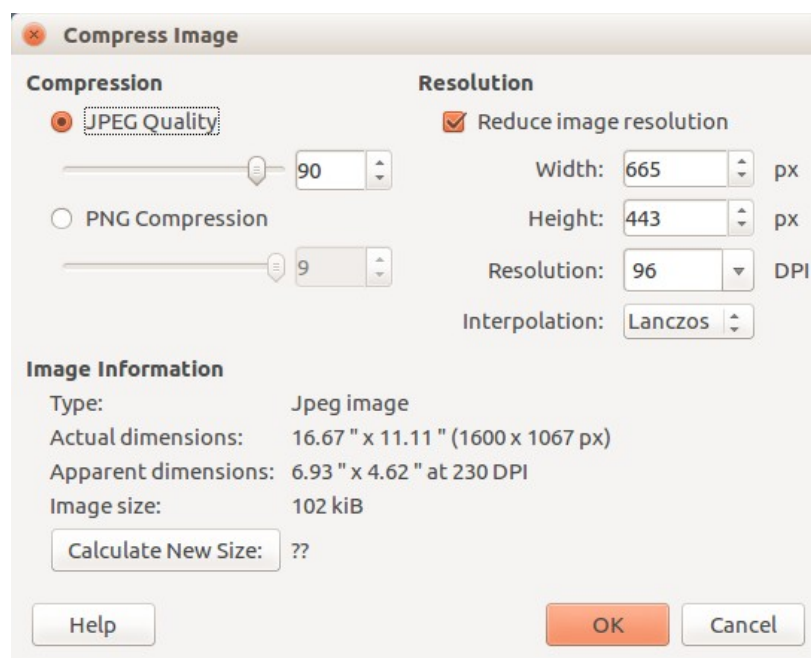


Figure 4: The Compress Image dialog

Positioning images

When you add an image to a text document, you need to choose how to position it with respect to the text and other images. Positioning is controlled by four settings:

- **Arrangement** refers to the placement of an image on an imaginary vertical axis. Arrangement controls how images are stacked upon each other or relative to the text.
- **Alignment** refers to the vertical or horizontal placement of an image in relation to the chosen anchor point.
- **Anchoring** refers to the reference point for the images. This point could be the page, or frame where the object is, a paragraph, or even a character. An image always has an anchor point.
- **Text wrapping** refers to the relation of images to the surrounding text, which may wrap around the graphic on one or both sides, be overprinted behind or in front of the graphic, or treat the graphic as a separate paragraph or character.

The settings can be accessed in a number of ways, depending on the nature of the images:

- In the **Format** menu: **Anchor**, **Wrap**, and **Arrange** (both for images and drawing objects).
- In the context menu displayed when you right-click the graphic; this menu also includes an **Align** option.
- For images, on the *Type* and *Wrap* tabs of the Image dialog. Note that you cannot control the arrangement using the dialog.
- For drawing objects, on the *Position and Size* tab of the Position and Size dialog.
- For an embedded object (such as a Calc spreadsheet or Draw document), on the OLE-Object toolbar.

For details on all of these settings, see Chapter 11, Images and Graphics, in the *Writer Guide*, or Chapter 5, Using Graphics, in the *Calc Guide*.

Adding captions to images

You can add captions to Writer images in three ways: automatically, by using the Caption dialog, or manually. See the *Writer Guide* for details.

Managing the LibreOffice Gallery

Graphics in the Gallery are grouped by themes, such as Arrows, Diagrams, and Icons. You can create other groups or themes and add your own pictures or find extensions containing more graphics. Click on a theme to see its contents displayed in the Gallery window.

You can display the Gallery in Icon View (Figure 3) or Detailed View (Figure 5), and you can hide or show the Gallery by clicking on the Sidebar's **Hide** button.

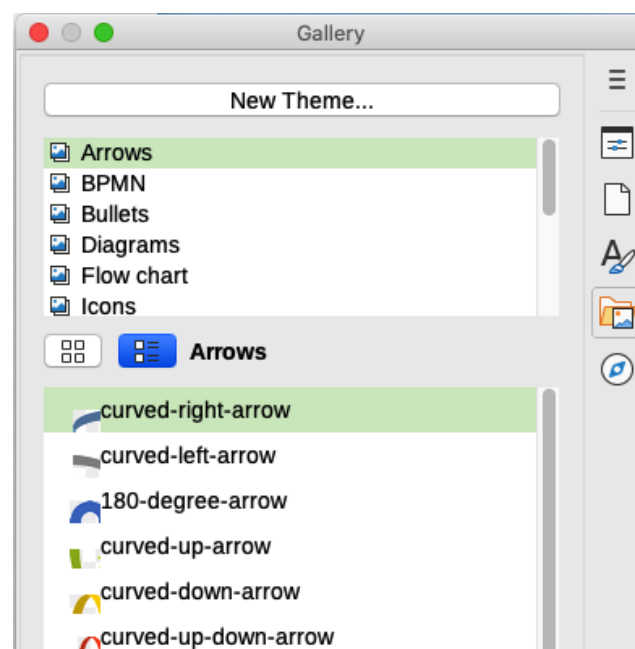


Figure 5: Gallery in Detailed View

✓ Note

The default themes supplied with LibreOffice can not be customized, although new themes can be added; see “Adding a new theme to the Gallery” below. The locked themes are easily recognizable by right-clicking on them; the only functional option in the context menu is **Properties**.

Adding a new theme to the Gallery

You may wish to add your own theme to the Gallery to hold any images or other objects that you use frequently, for example, a company logo. Or you may wish to add several themes, each holding images for a specific project.

To add a new theme to the Gallery:

- 1) Click the **New Theme** button above the list of themes (Figure 5).
- 2) In the Properties of New Theme dialog, click the *General* tab and type a name for the new theme.
- 3) Click the *Files* tab and add images to the theme, as described below.

i Tip

You can also get more gallery themes from the LibreOffice extensions website at <https://extensions.libreoffice.org/>, including themes from previous versions of LibreOffice, that are no longer installed by default with the program. See Chapter 14, Customizing LibreOffice for instructions on how to manage extensions.

Adding objects to the Gallery

To add objects to a theme that you have created:

- 1) Right-click on the name of the theme and select **Properties** in the context menu.
- 2) In the theme’s Properties dialog, click the *Files* tab (Figure 6).

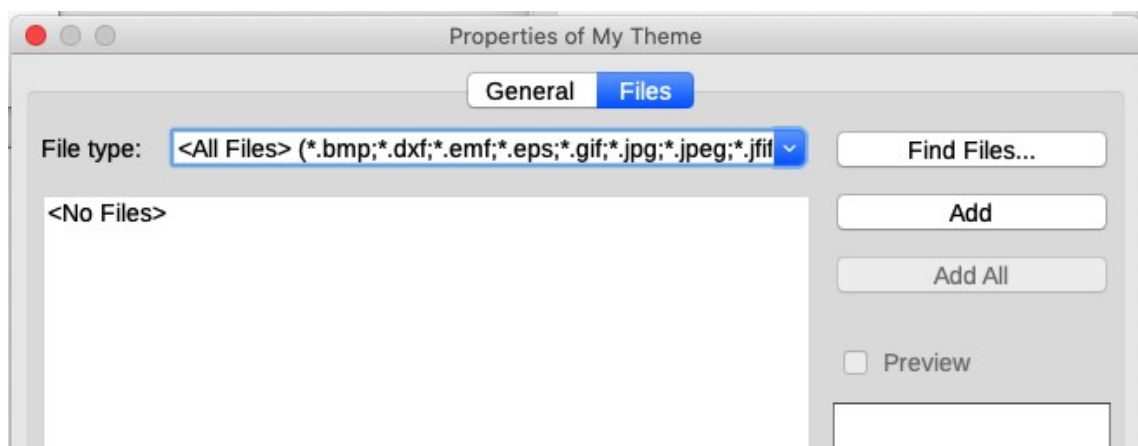


Figure 6: Gallery Properties dialog

To add several files at once:

- 1) In the Properties dialog, click the **Find Files** button.
- 2) The Select Path dialog (not shown) opens. You can enter the path for the file’s directory in the path text box, or you can navigate to locate the file’s directory.
- 3) Click the **Select** button to start the search. A list of files is then displayed in the Properties dialog. You can use the file type drop-down list to limit the files displayed.

- 4) To add all of the files shown in the list, click **Add All**. Otherwise, select the files to add and then click **Add** (hold down either the *Shift* key or the *Ctrl* key while clicking on the files).

To add a single file:

- 1) In the Properties dialog, click **Add** to open the Gallery dialog.
- 2) Use the navigation controls to locate the image to add to the theme. Select it and then click **Open** to add it to the theme.
- 3) Click **OK** on the Properties dialog to close it.

Deleting images and themes from the Gallery

To delete an image from a theme, right-click on the name of the image file or its thumbnail in the Gallery, then click **Delete** in the context menu. A message appears, asking if you want to delete this object. Click **Yes**.

To delete a theme from the Gallery, select it from the list of themes, right-click, then click **Delete** in the context menu. You cannot delete a theme supplied with LibreOffice.

Note

Deleting the name of a file from the list in the Gallery does not delete the file from the hard disk or other location.

Location of the Gallery and the objects in it

Graphics and other objects shown in the Gallery can be located anywhere on your computer's hard disk, on a network drive, or other removable media. When you add graphics to the Gallery, the files are not moved or copied; the location of each new object is simply added as a reference.

In a workgroup, you may have access to a shared Gallery (where you cannot change the contents unless authorized to do so) and a user Gallery, where you can add, change, or delete objects.

The location of the user Gallery is specified in **Tools > Options > LibreOffice > Paths**. You can change this location, and you can copy your gallery files (SDV) to other computers.

Gallery contents provided with LibreOffice are stored in a different location. You cannot change this location.

Note

The locations of Gallery themes distributed through LibreOffice extensions are determined by the extensions' settings.

Creating an image map

An image map defines areas of an image (called hotspots) with hyperlinks to web addresses, other files on the computer, or parts of the same document. Hotspots are the graphic equivalent of text hyperlinks (described in Chapter 12, Creating HTML Files). Clicking on a hotspot causes LibreOffice to open the linked page in the appropriate program (for example, the default browser for an HTML page; LibreOffice Calc for an ODS file; a PDF viewer for a PDF file). You can create hotspots of various shapes and include several hotspots in the same image.

To use the image map editor:

- 1) In the LibreOffice document, click on the picture in which you want to create the hotspots.

- 2) Choose **Tools > ImageMap** on the Menu bar. The ImageMap Editor dialog opens. The main part of the dialog shows the image on which the hotspots are defined.
- 3) Use the tools and fields in the dialog to define the hotspots and links necessary. A hotspot is identified by a line indicating its shape. The information needed for the hotspot includes the address pointed to by the hyperlink and the text you want to be displayed when the mouse pointer is moved over the hotspot.
- 4) Click the **Apply** icon to apply the settings.
- 5) When done, click the **Save** icon to save the image map to a file, then close the dialog.

For details, see Chapter 11, Images and Graphics, in the *Writer Guide*.

Using LibreOffice's drawing tools

You can use LibreOffice's drawing tools to create graphics such as simple diagrams using rectangles, circles, lines, text, and other predefined shapes. You can also group several drawing objects to make sure they maintain their relative position and proportion.

You can place the drawing objects directly on a page in the document or insert them into a frame.

You can also use the drawing tools to annotate photographs, screen captures, or other illustrations produced by other programs, but this is not recommended because:

- You cannot include images in a group with drawing objects, so they may not remain aligned in your document.
- If you convert a document to another format, such as HTML, the drawing objects and the graphics will not remain associated; they are saved separately.

In general, if you need to create complex drawings, it is recommended to use LibreOffice Draw, which includes many more features such as layers, styles, and so on.

Creating drawing objects

To begin using the drawing tools, display the Drawing toolbar (Figure 7) by clicking **View > Toolbars > Drawing** or by clicking on the **Show Draw Functions** icon on the Standard toolbar.

Tip

If you are planning to use the drawing tools repeatedly, you can tear off (undock) this toolbar and move it to a convenient place as a floating toolbar in the window.

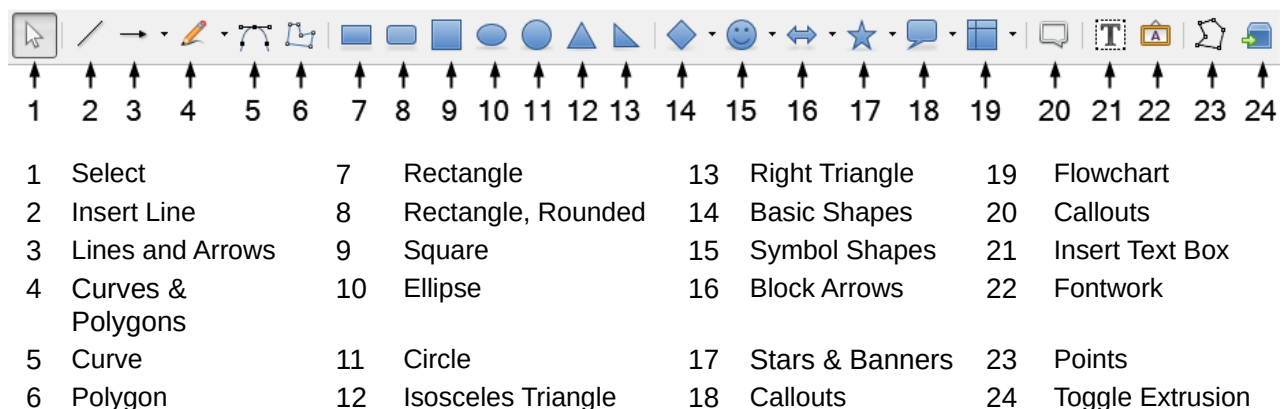


Figure 7: The Drawing toolbar (Writer version)

To use a drawing tool:

- 1) Click in the document where you want the drawing to be anchored. You can change the anchor later, if necessary.
- 2) Choose the tool on the Drawing toolbar (Figure 7). The mouse pointer changes to a drawing-functions pointer and the normal Formatting toolbar changes to Drawing Object Properties toolbar (Figure 8).
- 3) Move the cross-hair pointer to the place in the document where you want the graphic to appear and then click and drag to create the drawing object. Release the mouse button. The selected drawing function remains active, so that you can draw another object of the same type.
- 4) To cancel the selected drawing function, press the *Esc* key or click on the **Select** icon (the arrow at the left-hand end of the Drawing toolbar).
- 5) You can now change the properties (fill color, line type and weight, anchoring, and others) of the drawing object using either the Drawing Object Properties toolbar (Figure 8) or the choices and dialogs reached by right-clicking on the drawing object.

Setting or changing properties for drawing objects

To set the properties for a drawing object before you draw it:

- 1) On the Drawing toolbar (Figure 7), click the **Select** tool.
- 2) On the Drawing Object Properties toolbar (Figure 8), click on the icon for each property and select the value you want for that property.
- 3) For more control, or to define new attributes, you can click on the **Area** or **Line** icons on the toolbar to display detailed dialogs.

The default you set applies to the current document and session. It is not retained when you close the document or close LibreOffice, and it does not apply to any other document you open. The defaults apply to all the drawing objects except text objects.

To change the properties for an existing drawing object, select the object and continue as described above.

You can also specify the position and size, rotation, and slant and corner radius properties of the drawing object: right-click on the drawing object and then choose **Position and Size** in the context menu. Choose any properties, as required.

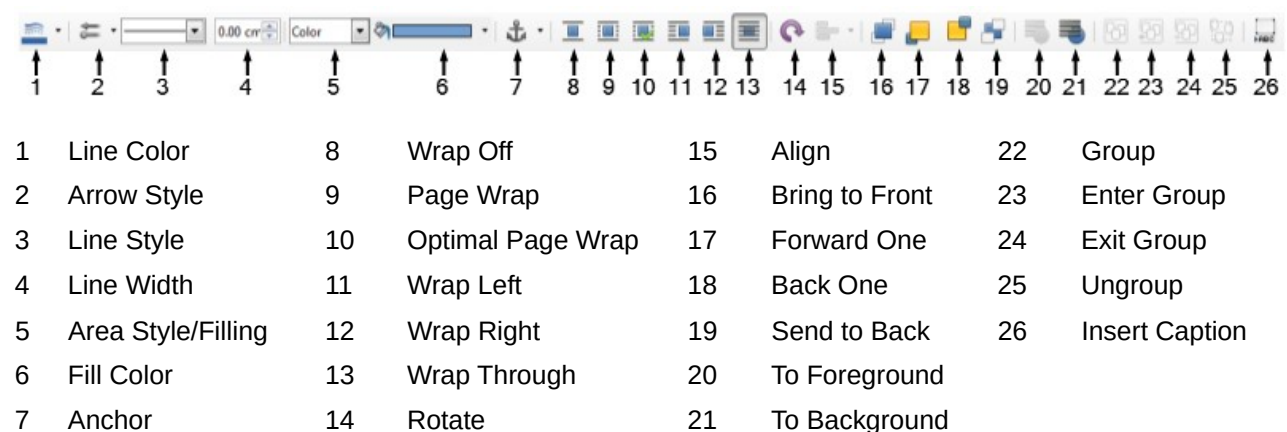


Figure 8: Drawing Object Properties toolbar

Resizing a drawing object

An object is resized in a similar way to an image. Select the object, click on one of the eight handles around it and drag it to its new size. The object will be scaled up or down. When you grab the handle of an object and drag it, LibreOffice will resize disproportionately; if you also press the *Shift* key, the resizing will keep object proportions.

For more sophisticated control of the size of the object, right-click on the object and choose **Position and Size** in the context menu. Use the *Position and Size* tab to set the position and size independently. If the **Keep ratio** option is selected, then the two dimensions change so that the proportion is maintained, resulting in a scaled resizing.

Grouping drawing objects

Grouping drawing objects makes it easier to handle several objects as a single entity, while preserving their relative sizes and positions. When objects are grouped, any editing operations carried out on that group are applied to all members of the group. If you click on one member of the group, the whole group is selected.

To group drawing objects:

- 1) Select one object, then hold down the *Shift* key and select the others you want to include in the group. The bounding box expands to include all the selected objects.
- 2) With the objects selected, hover the mouse pointer over one of the objects and choose **Format > Group > Group** on the Menu bar, or click the **Group** icon on the Drawing Object Properties toolbar, or right-click and choose **Group** in the context menu.

Note

You cannot include an embedded or linked graphic in a group with drawing objects.

You can edit an individual member of a group without ungrouping or breaking the group. Select the group and go to **Format > Group > Enter Group** on the Menu bar, or right-click and select **Enter Group** in the context menu, or click the **Enter Group** icon in the Drawing Object Properties toolbar. When you have finished editing an individual member of a group, go to **Format > Group > Exit Group** on the Menu bar, or right-click and select **Exit Group** from the context menu, or click the **Exit Group** icon in the Drawing Object Properties toolbar.

To ungroup or break apart a group of objects, select the group then go to **Format > Group > Ungroup** on the Menu bar, or right-click and select **Ungroup** in the context menu, or click the **Ungroup** icon on the Drawing Object Properties toolbar.

Using Fontwork

With Fontwork you can create graphical text art objects to make your work more attractive. There are many different settings for text art objects (line, area, position, size, and more), so you have a large choice.

Fontwork is available with the Writer, Calc, Impress, and Draw components of LibreOffice, but you will notice small differences in the way that each component displays it.

Creating a Fontwork object

- 1) On the Fontwork toolbar (**View > Toolbars > Fontwork**) or the Drawing toolbar (**View > Toolbars > Drawing**), click the Fontwork Gallery icon, or choose **Insert > Fontwork** in the Menu bar.
- 2) In the Fontwork Gallery dialog (Figure 9), select a Fontwork style (scroll down to see more choices), then click **OK**.



Figure 9: The Fontwork Gallery dialog

The Fontwork object will appear in your document. Notice the squares around the edge (indicating that the object is selected) and the differently colored dot; these are discussed in “Moving and resizing Fontwork objects” on page 20.

Resize the object using one of the corner handles (hold down the *Shift* key to keep the sides proportional), or right-click and choose **Position and Size** from the context menu for more precise sizing.

- 3) Double-click the object to edit the Fontwork text (see Figure 10). Type your own text in place of the black text that appears over the object.



Figure 10: Editing Fontwork text

- 4) Click anywhere in a free space or press *Esc* to apply your changes.

Editing a Fontwork object

Now that the Fontwork object is created, you can edit some of its attributes. To do this, you can use the Fontwork toolbar, the Formatting toolbar, or menu options as described in this section. If the selected Fontwork object is a 3-D object, you can also use the 3D-Settings toolbar.

Using the Fontwork toolbar

Make sure that the Fontwork toolbar, shown in Figure 11, is visible. If you do not see it, go to **View > Toolbars > Fontwork**. Click on the different icons to edit Fontwork objects.



Figure 11: The floating Fontwork toolbar

- 1 **Fontwork Gallery:** Opens the Fontwork Gallery (Figure 9).
- 2 **Fontwork Shape:** Edits the shape of the selected object. You can choose from a palette of shapes.

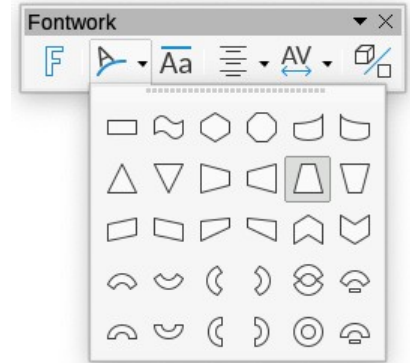


Figure 12: Fontwork toolbar showing palette of shapes

- 3 **Fontwork Same Letter Heights:** Changes the height of characters in the object. Toggles between normal height (some characters taller than others, for example capital letters, d, h, l and others) and all letters the same height.

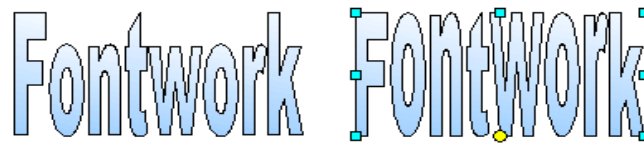
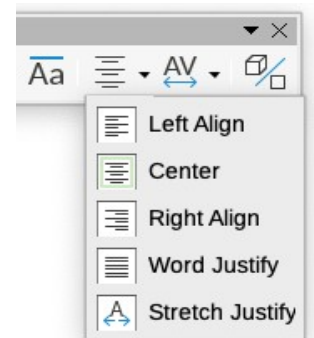
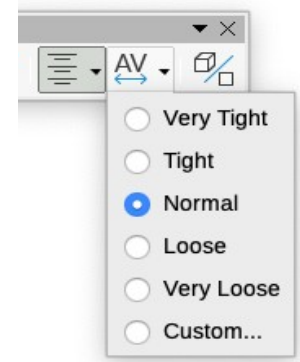


Figure 13: Left: normal letters; right: same letter heights

- 4 **Fontwork Alignment:** Changes the alignment of characters. Choices are left align, center, right align, word justify, and stretch justify. The effects of the text alignment can only be seen if the text spans over two or more lines. In the stretch justify mode, all the lines are filled completely.



- 5 **Fontwork Character Spacing:** Changes the character spacing and kerning in the object. Select from the choices in the drop-down list.



- 6 **Toggle Extrusion:** changes a 2D Fontwork object into a 3D object or a 3D object into a 2D object.

Using the Formatting toolbar

You can customize the Fontwork object with several more attributes. Click on the object; the Formatting toolbar changes to show the options for customizing the object. These choices are the same as the ones for other drawing objects, described earlier in this chapter. See also the *Draw Guide* for details.

Using menu options

You can use some of the choices on the Format menu to anchor, align, arrange, and group selected Fontwork objects, wrap text around them, and flip them horizontally and vertically.

You can also right-click on a Fontwork object and choose many of the same options from the pop-up menu. The pop-up menu also provides quick access to the Line, Area, and Position and Size dialogs. On the Position and Size dialog, you can enter precise values for size and position. For more information on all of these menu options, see the *Draw Guide*.

Using the 3D-Settings toolbar

If the selected Fontwork object is a 3-D object, you can also use the options on the 3D-Settings toolbar. You can also change a 2-D Fontwork object into a 3-D object (or change a 3-D object into a 2-D object) by clicking the **Toggle Extrusion** icon on the Fontwork toolbar. For more information, see the *Draw Guide*.

Moving and resizing Fontwork objects

When you select a Fontwork object, eight colored squares (known as handles) appear around the edge of the object, as shown below. You can drag these handles to resize the object.

A dark or colored dot also appears on the object. This dot may be in the same place as a handle, or it may be somewhere else. If you hover the cursor over this dot, the cursor changes shape. You can drag the dot in different directions to distort the object.

Hovering the cursor over other parts of the object turns the cursor into the usual symbol for dragging the object to another part of the page.

For precise control of the location and size of the object, and to rotate the object, use the Position and Size dialog.

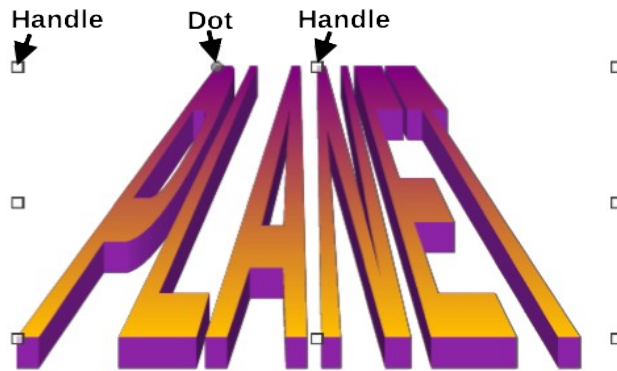


Figure 14: Handles and distortion dot on Fontwork object

Generating a QR code

A QR code (short for Quick Response code) is a type of barcode. QR codes often contain data that points to a website or application. Writer, Calc, Impress, and Draw can generate QR codes.

- 1) Choose **Insert > Object > QR Code** on the Menu bar to open the QR Code Generator dialog (Figure 15).
- 2) Fill in the *URL/Text* field, select a correction factor (the complexity of the graphic generated), and the width of the border around it, then click **OK**. Figure 16 shows the code generated by the input in Figure 15.

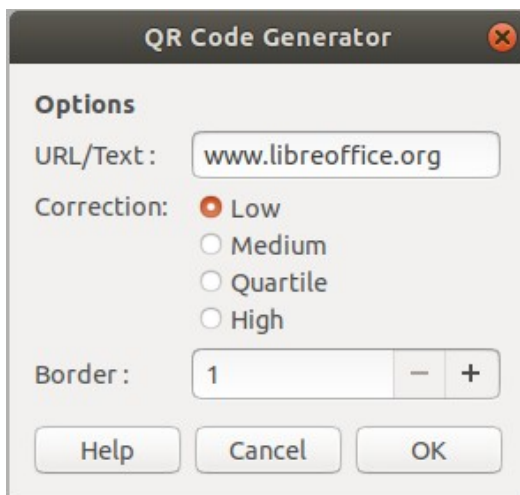


Figure 15: QR Code Generator dialog



Figure 16: QR code example

After the QR code has been generated, its possible to edit it by right-clicking in the code and selecting **Edit QR Code**.