



Writer Guide

Chapter 8
Working with Graphics

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Graphics in Writer

When you create a text document using OpenOffice.org (OOo) Writer, you may need to include some graphic illustrations. Graphics are added to textual documents for a wide variety of reasons: from supporting the description provided in the text—such as that used in this Guide—to providing an immediate visual impact of the contents, such as what is often found in a newspaper.

Graphics in Writer are of three basic types:

- Image files, including photos, drawings, scanned images, and others
- Diagrams created using OOo's drawing tools
- Charts created using OOo's Chart facility

This chapter covers the first two types of graphic illustrations.

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*.

Adding images to a document

Images (also called 'pictures' in this guide) can be taken from a variety of sources. They may be downloaded from the Internet, scanned, or created with a graphics program; or they may be photos taken with a digital camera.

Inserting an image from a file

In the case where the image is already available in a file stored on the computer, it can be immediately inserted in the Writer document. OOo can import various vector (line drawing) and raster (bitmap) file formats. The most common are GIF, JPEG or JPG, PNG, and BMP. See "Graphic file types supported" on page 37 for a full list of supported graphic file types.

To insert an image from a file, proceed as follows:

- 1) Determine the destination for the image. Place the cursor at or near the appropriate location in the document.

Note

Do not worry too much about the exact placement of the image at this stage as this can be easily changed later as described in section "Positioning graphics within the text" on page 20.

- 2) On the main menu, select **Insert > Picture > From File**. This displays the dialog box shown in Figure 1.
- 3) Navigate to the file to be inserted, select it, and click **Open**.

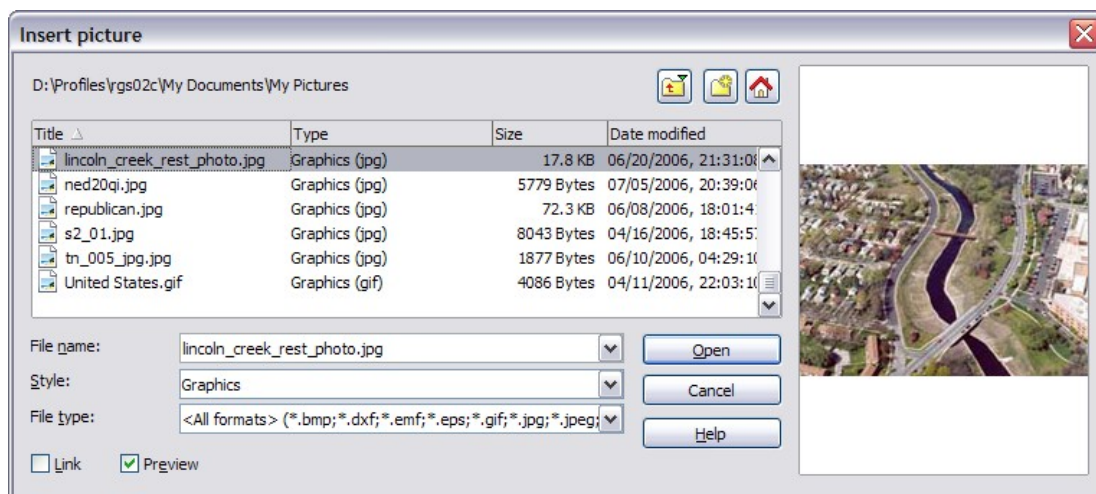


Figure 1: Insert picture dialog box

Note

At the bottom of the Insert picture dialog box are two check boxes. If **Preview** is checked, the selected graphic file is previewed in a pane, as shown in Figure 1, so you can verify that you have the correct file. The **Link** option is discussed below.

Linking an image file

If the **Link** option in the Insert picture dialog box is selected, Writer 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 will contain 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 – Linking can reduce the size of the document when it is saved, because the image file itself is not included. The file size is usually not a problem on a modern computer with a reasonable amount of memory, unless the document includes many large graphics files. Writer can handle quite large files.
- 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.

- 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 the Writer document can find them. For example, you might keep images in a subfolder named Images (under the folder containing the Writer document); the recipient of the Writer file needs to put the images in a subfolder with the same name (under the folder containing the Writer document).

Note

When inserting the same image several times in the document, it might appear beneficial to create links; however, this is not necessary as OOo embeds in the document 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. To do so:

- 1) Open the Writer document in OOo.
- 2) Choose **Edit > Links** from the menu bar.

The Edit Links dialog box (Figure 2) shows all the linked files. In the *Source file* list, select the files you want to change from linked to embedded.

- 3) Click the **Break Link** button.
- 4) Save the Writer document.

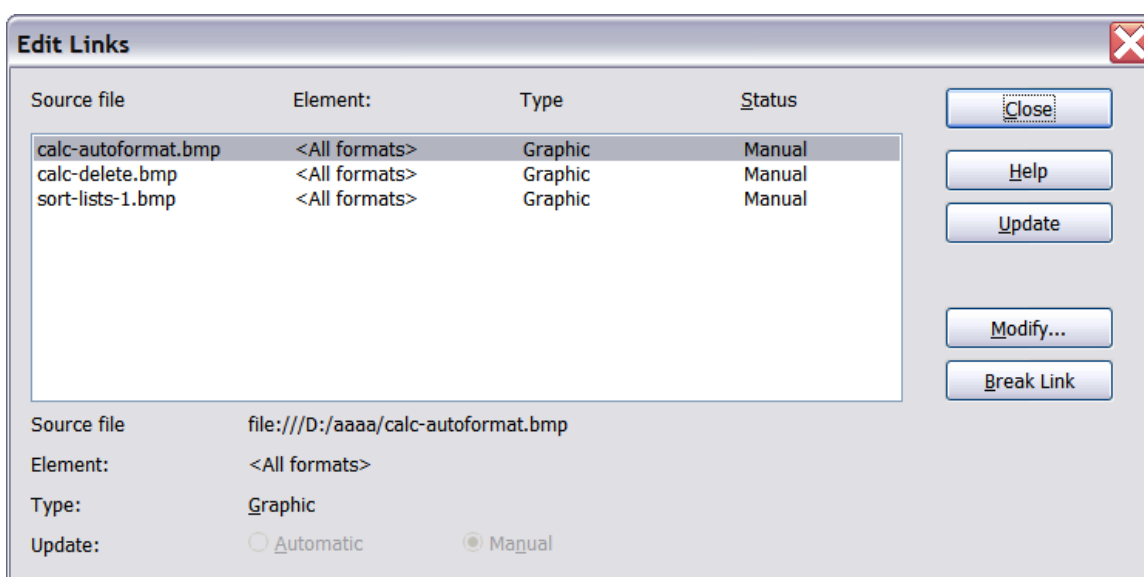


Figure 2: The Edit Links dialog box

Note

Going the other way, from embedded to linked, is not so easy—you must delete and reinsert each image, one at a time, selecting the **Link** option when you do so.

Inserting images from other sources

You can insert images from sources other than a file:

- Graphics program
- Scanner
- OOO Gallery

Graphics program

You can use many different graphics programs to edit a graphic file. From these programs, you can select, copy, and paste an image or part of a graphic into an OOO document. Figure 3 shows an example of this procedure, which can be recreated with these steps:

- 1) In the graphic program window, select an area of the image to be copied.
- 2) Move the cursor over the selected area and press *Control+C* to copy.

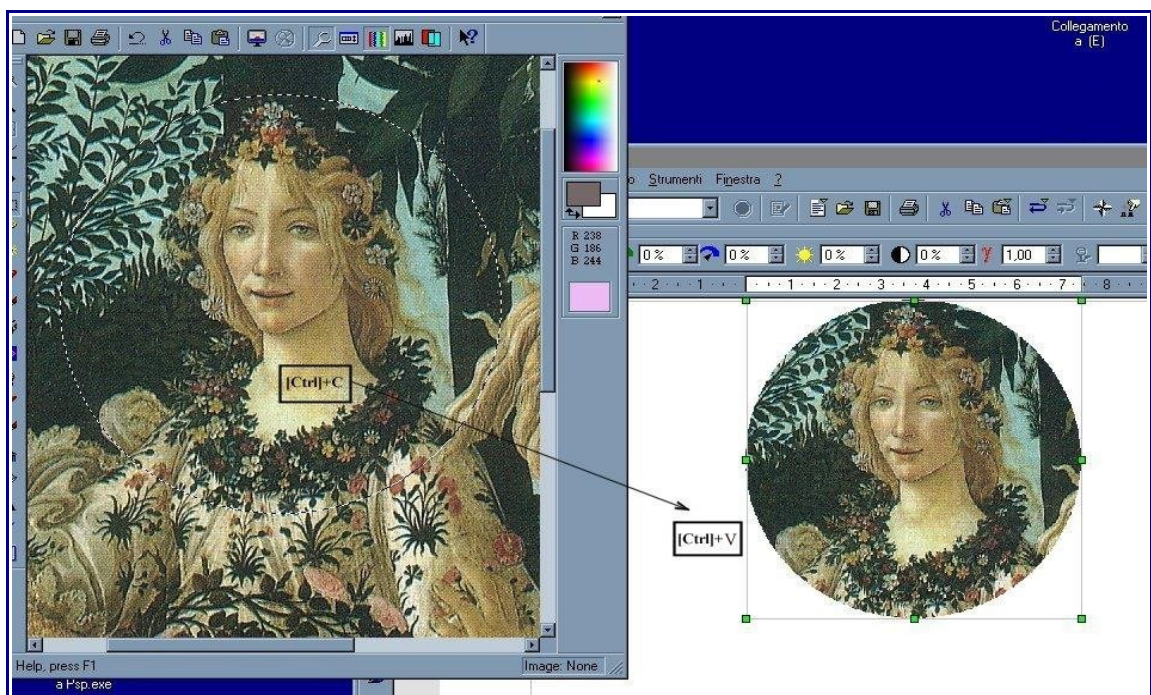


Figure 3. Using a graphics program

- 3) Switch to the OOO Writer window.
- 4) Click to place the cursor where the graphic is to be inserted.
- 5) Press *Control+V* to paste the image.

Scanner

If a scanner is connected to your computer, OOO can call the scanning application and insert the scanned item into the Writer document page as an image. To start this procedure, place the cursor where the graphic is to be inserted and select **Insert > Picture > Scan > Select Source**.

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 Writer.

OpenOffice.org Gallery

The **Gallery** contains objects (graphics and sounds) that you can insert into your documents. The Gallery is available in all components of OOO. For an introduction to the Gallery, see Chapter 11 (Graphics, the Gallery, and Fontwork) in the *Getting Started* guide.

To select a graphic from the Gallery and drag it into the document:


- 1) Click on the **Gallery** icon  (located in the right side of the Standard toolbar) or choose **Tools > Gallery**.
- 2) Select the theme containing the image you want to insert.
- 3) Click on the image with the left mouse button, then drag and drop the image into the document. You can also right-click on the object and select **Insert > Copy**.

Figure 4 shows an example of an image dragged from the Gallery.

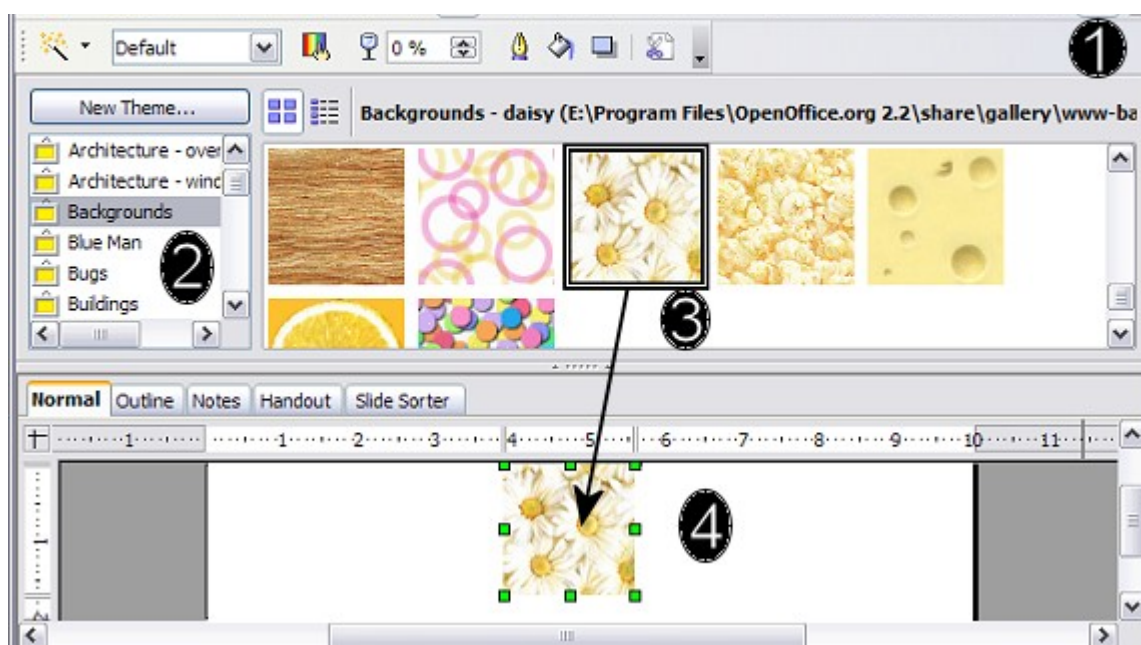


Figure 4. Inserting an image from the Gallery

Modifying an image

When you insert a new image, you may need to modify it to make it more suitable for fitting into the document. The placement of the picture relative to the text is discussed in “Positioning graphics within the text” on page 20. This section describes the use of the Picture toolbar, resizing, and cropping, as well as a workaround to rotate a picture.

Note

Although OOo provides many tools for working with images, for best results it is generally better to use an image manipulation program such as GIMP¹, to modify images (for example, to crop, resize, rotate, and change color values) and then insert the result into OOo.

Using the picture toolbar

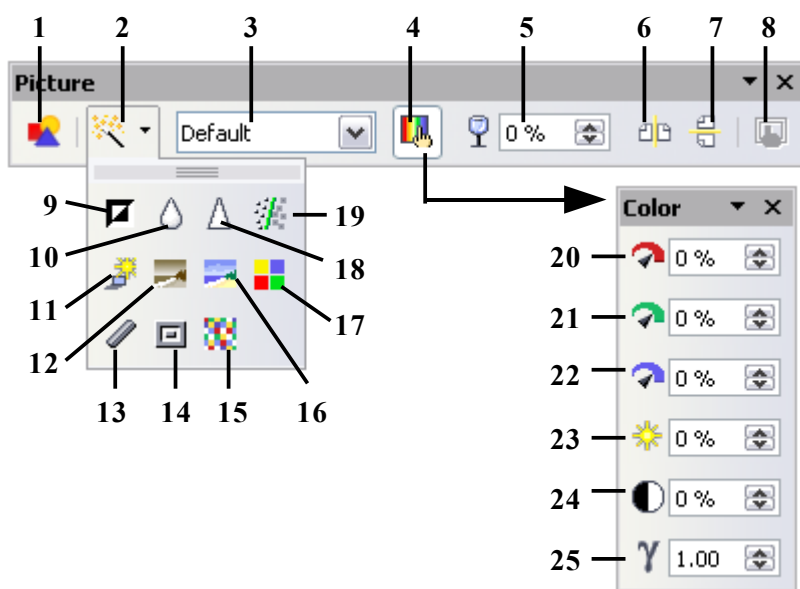
When you insert a suitable graphic image or select one already present in the document, the Picture toolbar appears. This toolbar can be either floating or docked. Figure 5 shows what the Picture toolbar looks like when it is floating. Two other toolbars can be opened from this one: the Graphic Filter 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 toolbars, you can apply small corrections to the graphic or obtain special effects.

Filters

Table 1 provides a short description of the available filters, however the best way to understand them is to see them in action. Feel free to experiment with the different filters and filters settings, remembering that you can undo all the changes by pressing *Ctrl+Z* or *Alt+Backspace* or by selecting **Edit > Undo**.

¹ GIMP is an open-source graphics program that can be downloaded from <http://www.gimp.org/downloads/>.



- 1** From File
- 2** Filter
- 3** Graphics mode
- 4** Color
- 5** Transparency
- 6** Flip Horizontally
- 7** Flip Vertically
- 8** Graphics Properties
- 9** Invert
- 10** Smooth
- 11** Solarization
- 12** Aging
- 13** Charcoal Sketch
- 14** Relief
- 15** Mosaic
- 16** Posterize
- 17** Pop Art
- 18** Sharpen
- 19** Remove Noise
- 20** Red
- 21** Green
- 22** Blue
- 23** Brightness
- 24** Contrast
- 25** Gamma

Note: Graphics mode (3) can be Default, Grayscale, Black/White, or Watermark.

Figure 5. Picture toolbar plus tear-off Graphic Filter toolbar and floating Color toolbar

Figure 6 shows examples of some of the changes available on the Picture toolbar.

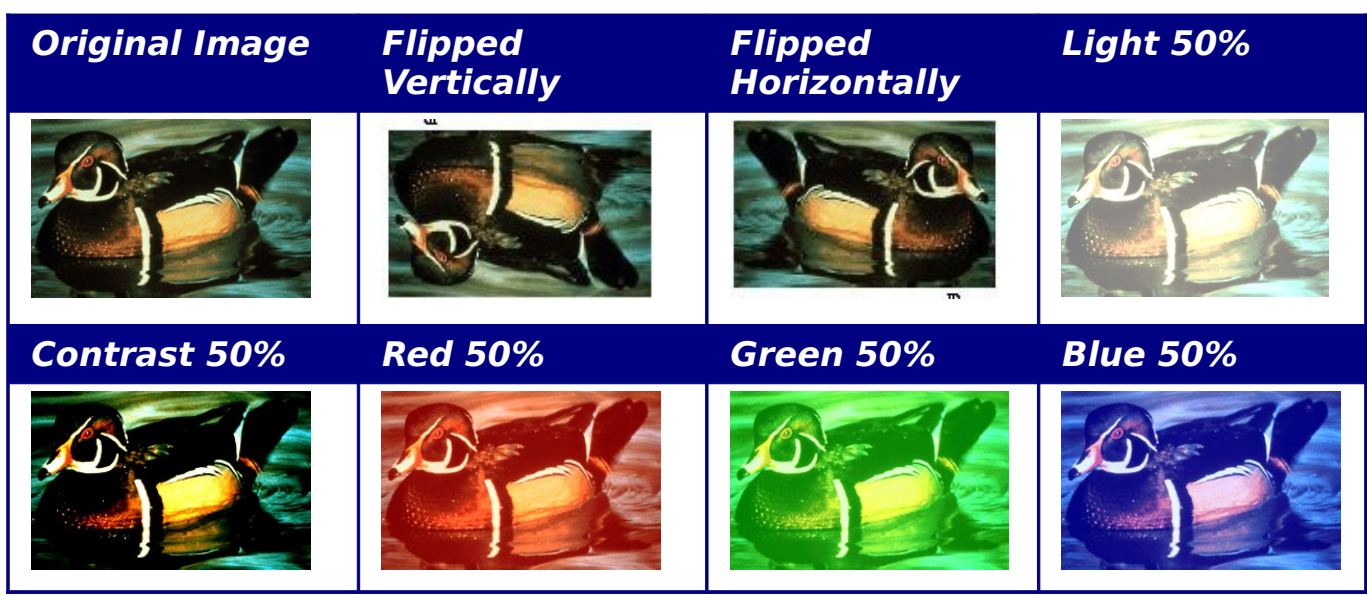


Figure 6. Some graphic effects available from the Picture toolbar

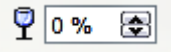
Table 1: Graphic filters and their effects

Icon	Name	Effect
	Invert	Inverts the color values of a color image or the brightness values of a grayscale image.
	Smooth	Softens the contrast of an image.
	Sharpen	Increases the contrast of an image.
	Remove noise	Removes single pixels from an image.
	Solarization	Mimics the effects of too much light in a picture. A further dialog box opens to adjust the parameters.
	Aging	Simulates the effects of time on a picture. Can be applied several times. A further dialog box opens to adjust the aging level.
	Posterize	Makes a picture appear like a painting by reducing the number of colors used.
	Pop Art	Modifies the picture dramatically.
	Charcoal	Displays the image as a charcoal sketch.
	Relief	A dialog box is displayed to adjust the light source that will create the shadow and, hence, the relief effect.
	Mosaic	Joins groups of pixels into a single area of one color.

Color

Use this dialog box to modify the individual RGB color components of the image (red, green, blue) as well as the brightness, contrast, and gamma of the image. If the result is not satisfactory, you can press *Control+Z* to restore the default values.

Setting the object transparency

Modify the percentage value in the *Transparency* box  on the Picture toolbar to make the image more transparent. This is particularly useful when creating a watermark or when wrapping the image in the background.

Using the formatting toolbar and picture dialog

When an image is selected, you can customize some aspects of its appearance using the tools available on the Formatting toolbar (shown in Figure 11) as well as in the dialog that is shown by right-clicking on the image and selecting **Picture** (see Figure 7). You can, for example, create a border around the image, selecting style and color; or you can (in the **Borders** page of the Picture dialog) add a shadow to the image.

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. To start cropping the image, right-click on it and select **Picture** from the pop-up menu. In the Picture dialog box, select the **Crop** page (Figure 7).

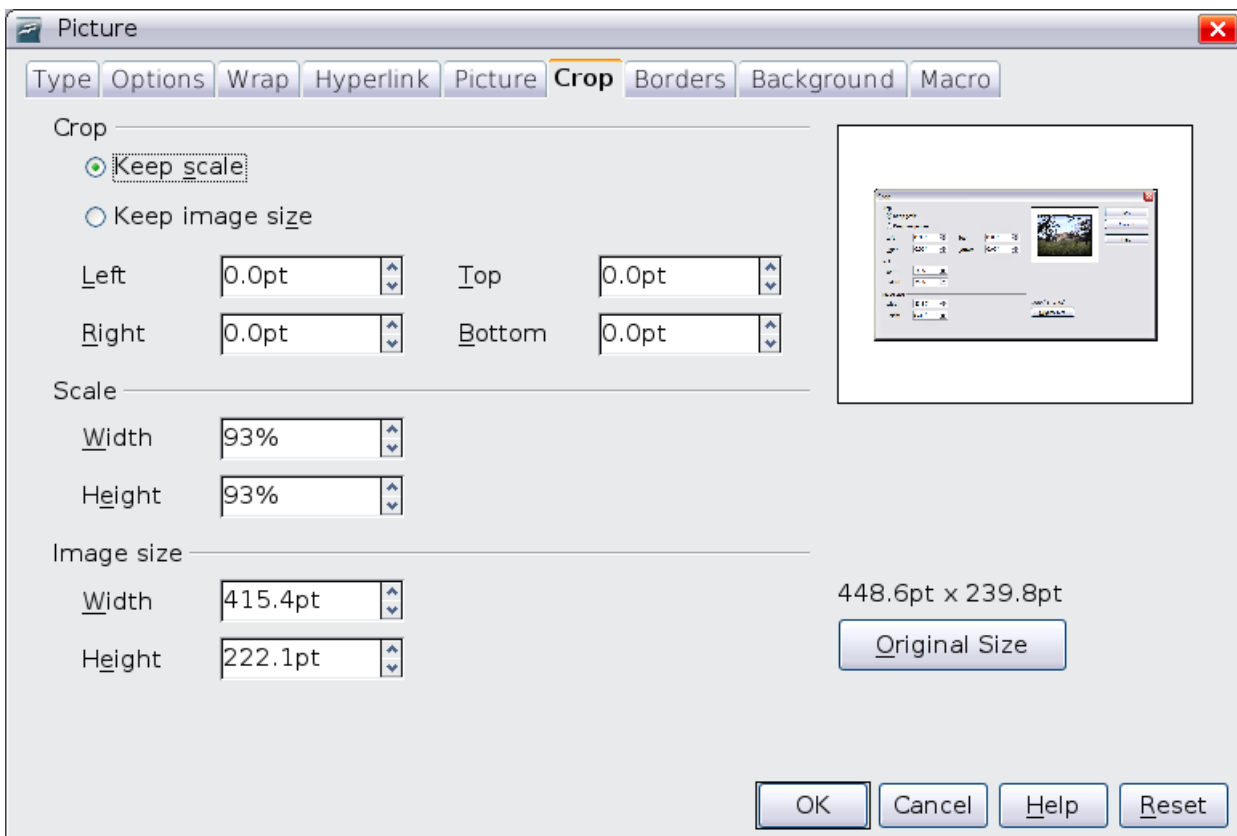


Figure 7: The options available when cropping a picture

In the Crop dialog box, you can control the following parameters:

- **Keep scale / Keep image size** options: when **Keep scale** is selected (default), cropping the image does not change the scale of the picture. When **Keep image size** is selected, cropping produces enlargement (for positive cropping values), shrinking (for negative cropping values), or distortion of the image so that the image size remains constant.

- **Left, Right, Top, and Bottom:** the function of these boxes changes according to the choice made between *Keep scale* and *Keep image size*. In both cases, when a value is entered in one of these boxes, the image is cropped by that amount. For example, a value of **3cm** in the *Left* box will cut 3 cm from the left side of the picture.

When **Keep scale** is selected, the size of the image also changes, so in this example the width will be reduced by 3 cm. If **Keep image size** is selected instead, the remaining part of the image is enlarged (positive values for cropping) or shrunk (negative values for cropping) so that the width and height of the image remains unchanged.

Note that the *Width* and *Height* fields change as you enter the values when in this mode. Use the thumbnail next to these fields to determine the correct amount by which to crop.

Resizing an image

It is possible, and quite likely, that the inserted image will not fit perfectly into the document because it is too big or too small. In these cases you will need to resize the image.

- 1) Click the picture, if necessary, to show the green resizing handles.
- 2) Position the pointer over one of the green resizing handles. The pointer changes shape giving a graphical representation of the direction of the resizing.
- 3) Click and drag to resize the picture.
- 4) Release the mouse button when satisfied with the new size.

The corner handles resize both the width and the height of the graphic object simultaneously, while the other four handles only resize one dimension at a time.

Tip To retain the original proportions of the graphic, *Shift+click* one of the corner handles, then drag. Be sure to release the mouse button **before** releasing the *Shift* key.

Be aware that re-sizing a bit-mapped (raster) image will adversely affect the resolution, causing some degree of blurring. It is better to externally size your picture correctly before insertion into your presentation, if possible.

Figure 8 shows three examples of an image inserted into a document and resized.

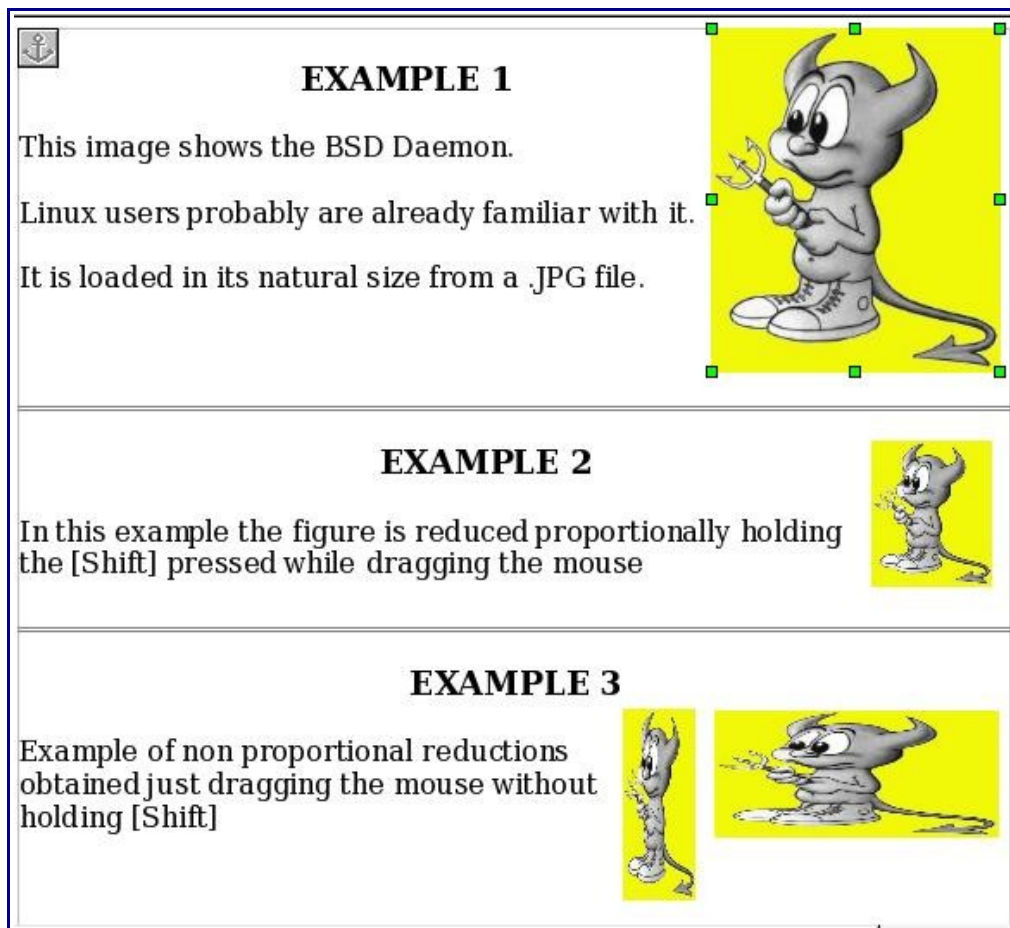


Figure 8. Three examples of resized images, plus the original image


For more accurate resizing, use either the **Crop** page of the Picture dialog box (Figure 7) or, for images, the **Type** page of the Picture dialog box. On the **Crop** page you can either adjust the following settings or use the settings in the Crop section as described on page 13.

- **Scale Width** and **Height**: specify in percentages the scaling of the picture. The size of the image changes accordingly. For a scaled resizing, both values should be identical.
- **Image size**: specify the size of the image in your preferred unit of measurement. The image enlarges or shrinks accordingly.
- **Original size** button: when clicked, restores the image to its original size.

In the **Type** page of the Picture dialog box, select the **Relative** option to toggle between percentage and actual dimension. For a scaled resizing, select the **Keep ratio** option. As for the **Crop** page, clicking on the **Original Size** button restores the original image size.

Rotating a picture

Writer does not provide a tool for rotating a picture; however, there is a very simple workaround:

- 1) Open a new *Draw* or *Impress* document.
- 2) Insert the image you want to rotate. You can use any of the mechanisms described in “Adding images to a document” on page 5, although there are some slight variations in the position of the menu entries and icons.
- 3) Select the image, then in the drawing toolbar (shown by default at the bottom of the window in Impress and Draw), select the **Rotate** icon .
- 4) Rotate the image as desired. Use the red handles at the corners of the picture and move the mouse in the direction you wish to rotate. By default the picture rotates around its center (indicated by a black crosshair), but you can change the pivot point by moving the black crosshair to the desired rotation center.

Tip

To restrict the rotation angle to multiples of 15 degrees keep the *Shift* key pressed while rotating the image.

- 5) Select the rotated picture by pressing *Ctrl+A*, then copy the image to the clipboard with *Ctrl+C*.
- 6) Finish by going back to the location of the Writer document where the image is to be inserted and pressing *Ctrl+V*.

Other settings

The Picture dialog box (Figure 7) consists of eight pages. The Crop page was described on page 13, while the use of the Type and the Wrap pages is explained in “Positioning graphics within the text” on page 20. The other pages serve the following purposes:

- **Options:** use this page to give the picture a descriptive name (as you want it to appear in the Navigator), display alternative text when the mouse hovers over the picture, and protect some of the picture settings from accidental changes. You can also prevent the picture from being printed by deselecting the corresponding option.
- **Borders:** use this page to create borders around the picture. The Borders dialog box is the same as the one used for defining table or paragraph borders. You can also add a shadow to the image if so desired.

- **Background:** use this page to change the background color of the picture. This setting produces the desired results only for images with a transparent color.
- **Hyperlink:** use this page to associate a hyperlink to the picture. you can also create an image map so that only certain areas of the picture respond to a mouse click by opening the associated URI ([Uniform Resource Identifier](#)) in the default browser. More information on image maps can be found in the *Impress Guide*.
- **Picture:** use this page to flip the picture as well as to display the original location of the file in case the image is linked rather than embedded.
- **Macro:** allows you to associate a macro to the picture. You can choose among the predefined macros or write your own.

Deleting a picture

To delete a picture:

- 1) Click on the picture, if necessary, to show the green resizing handles.
- 2) Press **Delete**.

Using Writer's drawing tools

You can use Writer'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 your document, or you can 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 get out of alignment in your document.
- If you convert a Writer 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 OpenOffice.org 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 9), by clicking **View > Toolbars > Drawing**.

If you are planning to use the drawing tools repeatedly, you can tear off this toolbar and move it to a convenient place on the window.

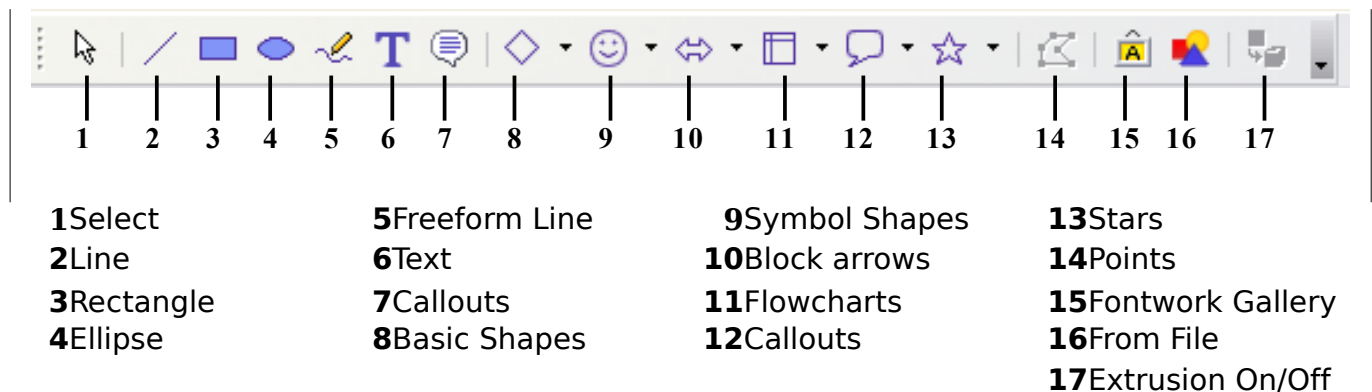



Figure 9. The Drawing toolbar

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) Select the tool from the Drawing toolbar (Figure 9). The mouse pointer changes to a drawing-functions pointer .
- 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 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) on 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 10) or the choices and dialog boxes reached by right-clicking on the drawing object.

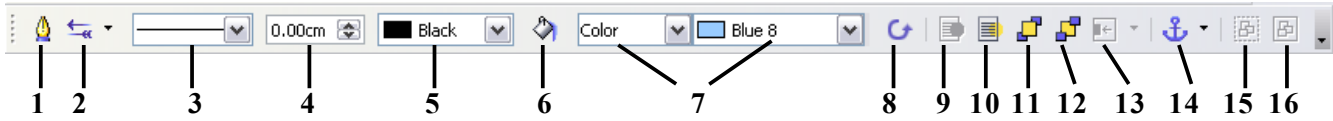
Set or change properties for drawing objects

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

- 1) On the Drawing toolbar (Figure 9), click the **Select** tool.
- 2) On the Drawing Object Properties toolbar (Figure 10), 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 dialog boxes.

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



- | | | | |
|----------------------|-------------------------------|--------------------------|-------------------------|
| 1 Line | 5 Line Color | 9 To Foreground | 13 Alignment |
| 2 Arrow Style | 6 Area | 10 To Background | 14 Change Anchor |
| 3 Line Style | 7 Area Style / Filling | 11 Bring to Front | 15 Ungroup |
| 4 Line Width | 8 Rotate | 12 Send to Back | 16 Group |

Figure 10. Drawing Object Properties toolbar

To change the properties for an existing drawing object:

- 1) Select the object.
- 2) Continue as described above.

You can also specify the position and size, rotation, and slant and corner radius properties of the drawing object:

- 1) Right-click on the drawing object and then click Position and Size from the pop-up menu. The *Position and Size* dialog box is displayed.
- 2) Choose any properties, as required.

Resizing a drawing object

The same considerations for resizing an image apply also to resizing an object. Select the object, click on one of the eight handles around it and drag it to its new position. For a scaled resizing, select one of the corner handles and keep the *Shift* key pressed while dragging the handle to its new position.

For more sophisticated control of the size of the object, select **Format > Object > Position and Size** from the menu bar. Use the Position and Size dialog box to set the width and height independently. If the **Keep ratio** option is selected, then the two dimensions change so that the proportion is maintained, allowing for a scaled resizing.

Grouping drawing objects

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** from the menu bar or right-click and choose **Group > Group** from the pop-up menu.

Note

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

Positioning graphics within the text

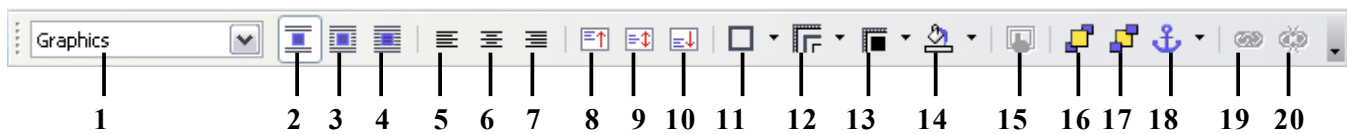
When you add a graphic to a text document, you need to choose how to position the graphic with respect to the text and other graphics. The positioning of graphics is often rather time-consuming and may be very frustrating for both inexperienced and experienced users. As Writer is a word processor rather than a desktop publishing program, there are some limitations to the flexibility in positioning images and it takes time to get things exactly as you would like them. Starting from OpenOffice.org 3.0, this task is considerably improved by the inclusion of a new option that allows a “loose anchoring”.

Positioning of a graphic is controlled by working on four areas:

- *Arrangement* refers to the placement of a graphic on an imaginary vertical axis. Arrangement controls how graphics are stacked upon each other or relative to the text.
- *Alignment* refers to the vertical or horizontal placement of a graphic in relation to the chosen anchoring point.
- *Anchoring* refers to the reference point for the graphics. This point could be the page, or frame where the object is, a paragraph, or even a character.
- *Text wrapping* refers to the relation of graphics to 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 for each of the four control areas above can be accessed in a number of different ways depending on the nature of the graphics:

- 1) From the **Format** menu, where you can find **Alignment**, **Arrange**, **Wrap**, and **Anchor** (both for images and drawing objects).
- 2) By the pop-up menu displayed when right-clicking on the graphics.
- 3) From the Frame toolbar shown in Figure 11, for images with the **Graphics** frame style applied.
- 4) From the *Type* and *Wrapping* pages of the Picture dialog box for images. Note that you cannot control the arrangement using the dialog box. To open the Picture dialog box, click on the image to select it and then choose **Format > Picture** or right-click on the graphic and choose **Picture** on the pop-up menu.
- 5) From the *Position and Size* page of the Position and Size dialog box for drawing objects. To open the Position and Size dialog box, click on the drawing object to select it and then choose **Format > Object > Position and Size** or right-click on the graphic and choose **Position and Size** on the pop-up menu. Note that you can only control the alignment and anchoring.



- | | | | |
|-----------------------|----------------------------|--------------------------------------|--------------------------|
| 1 Apply Style | 6 Center Horizontal | 11 Borders | 16 Bring to Front |
| 2 Wrap Off | 7 Align Right | 12 Line Style | 17 Send to Back |
| 3 Page Wrap | 8 Top | 13 Line Color (of the border) | 18 Change Anchor |
| 4 Wrap Through | 9 Center | 14 Background Color | 19 Link Frames |
| 5 Align Left | 10 Bottom | 15 Frame Properties | 20 Unlink Frames |

Figure 11. Frame toolbar (graphical control of positioning for images)

Arranging graphics

Arranging a graphic object means to determine its vertical position relative to other graphic objects or text. Arranging is only relevant when objects are overlapping. You can choose between four settings, plus a special setting for drawing objects:

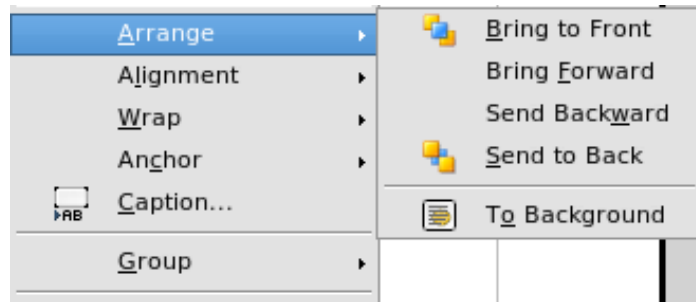


Figure 12: The Arrange menu

- **Bring to Front:** draws the graphic on top of any other graphics or text.
- **Bring Forward:** brings the object one level up in the stack (z-axis). Depending on the number of overlapping objects, you may need to apply this option several times to obtain the desired result.
- **Bring Backward:** the opposite of Bring Forward; sends the selected object one level down in the object stack.
- **Send to Back:** sends the selected graphic to the bottom of the stack, so that other graphics and text cover it.
- **To Background / To Foreground:** only available for drawing objects; moves the drawing object behind or in front of the text respectively.

Anchoring graphics

You can anchor graphics as a character or to a page, paragraph, or character. You can also place graphics in a frame and anchor the frame to a page, paragraph, or character. Which method you choose depends on what you are trying to achieve.

Here are the ways you can anchor graphics or drawing objects:

To Page

The graphic keeps the same position in relation to the page margins. It does not move as you add or delete text or other graphics. This method is useful when the graphic does not need to be visually associated with a particular piece of text. It is often used when producing newsletters or other documents that are very layout intensive, or for placing logos in letterheads.

Caution



If you plan to use a document within a master document, do not anchor graphics **To Page** because the graphics will disappear from the master document. See Chapter 13 (Working with Master Documents) for more information.

To Paragraph

The graphic is associated with a paragraph and moves with the paragraph. It may be placed in the margin or another location. This method is useful as an alternative to a table for placing icons beside paragraphs.

To Character

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

As Character

The graphic is placed in the document like any other character and, therefore, affects the height of the text line and the line break. The graphic moves with the paragraph as you add or delete text before the paragraph. This method is useful for keeping screenshots in sequence in a procedure (by anchoring them as a character in a blank paragraph) or for adding a small (inline) icon in sequence in a sentence.

To Frame

If the graphic has been placed in a frame, you can anchor the graphic in a fixed position inside the frame. The frame can then be anchored to the page, a paragraph, or a character, as required.

Aligning graphics

Once you have established the anchor point of the graphic, you can decide the position of the graphic relative to this anchor: this is called aligning the graphics. There are six options to choose from: three for aligning the graphic horizontally (left, center, right) and three for aligning the graphic vertically (top, center, bottom). If you want to have finer control of the alignment, then you need to refer to the dialog box shown in Figure 13.

For both the horizontal and vertical position, start by picking the reference point in the right hand side drop down menu, then select in the first drop down menu among **Left**, **Right** or **Center**. If you select the value **From left** (or **From top** for the vertical positioning) you can specify the amount in your selected unit of measurement. In the example in Figure 13, the upper-left corner of the image will be placed at 3 cm from the left margin of the page horizontally and on the top margin vertically.

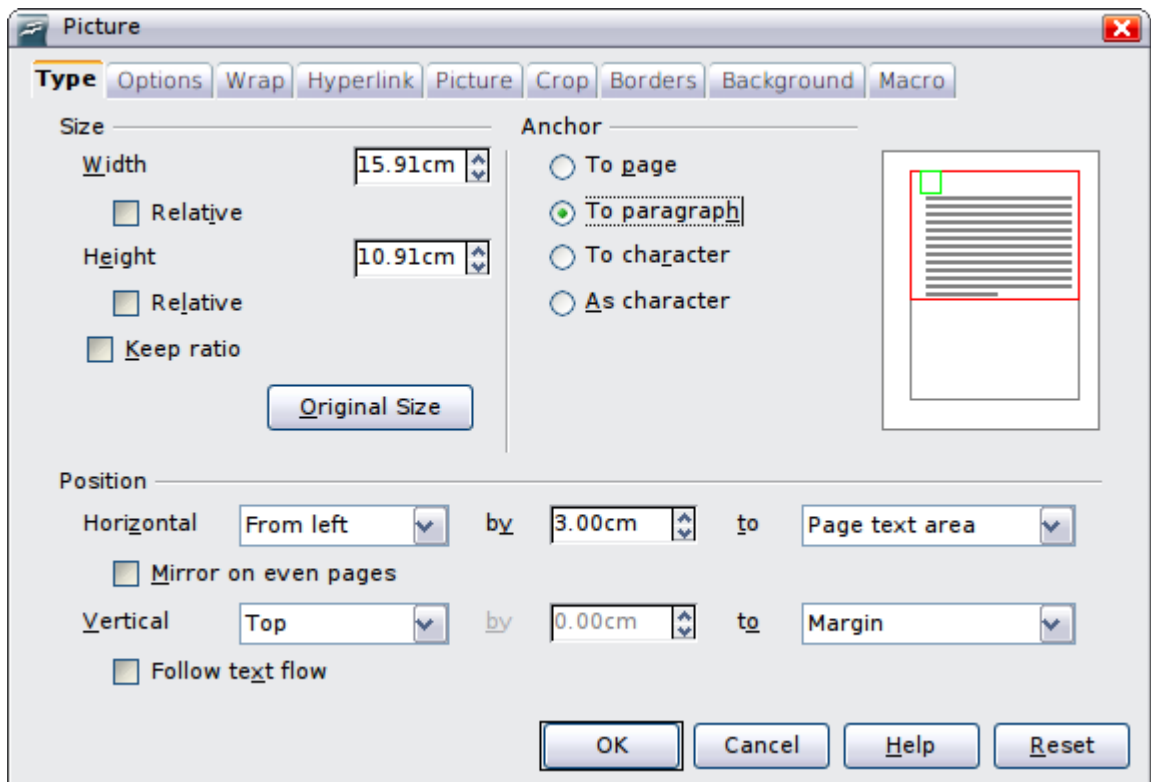


Figure 13: Fine tuning the alignment with the Picture dialog box

Wrapping text around graphics

The Wrap setting determines the relation between the text and the graphic. Several possibilities are provided:

No Wrap

With this option the text is placed above and below the image but not around it. This is the wrapping type used for most of the figures in this guide.

Page Wrap or Optimal Page Wrap

The text flows around the image. Moving the image around the page causes the text to be rearranged to fill the space to the left and right of it. **Optimal Page Wrap** prevents text from being placed to the side of the image if the spacing between the image and the margin is less than 2 cm.

Wrap Through

Superimposes the image on the text. That is, the image is *above* the text. This option must be used in conjunction with the image-transparency setting in order to make the text under the picture visible.

In Background

Similar to **Wrap Through**, but the image is placed *below* the text so there may be no need to change the transparency to make the text visible.

Note

The **No Wrap** option found in the pop-up menu of a picture is equivalent to the **Wrap Off** menu item in the **Format > Wrap** menu.

The wrap format is normally selected after the anchoring and the alignment of the picture have been decided. To set the position of an image to the the desired wrap format, follow these steps:

- 1) Select a graphic by clicking on it.
- 2) Right-click to display the pop-up menu and move the mouse pointer to **Wrap** to display the available wrap formats. Alternatively you can select **Format > Wrap** from the main menu.
- 3) Select the desired wrap format.

Note

When anchoring a graphic as character, you can only adjust the distance between the image and the text, but no wrapping option is displayed.

To fine tune the wrapping options, open the Picture dialog box and select the Wrap page shown in Figure 14. For images you can open this dialog box by selecting **Format > Picture** from the main menu or right-click and select **Picture** from the pop-up menu. For drawing objects, you can access the **Wrap** page by selecting **Format > Wrap > Edit** in the main menu or right-click and select **Wrap > Edit** from the pop-up menu . This dialog box is divided into three sections.

In the top part you can select among the wrap types mentioned above, plus two additional wrap formats that prevent the text from filling the area to the left (**After**) or to the right (**Before**) of the picture. Use the *Spacing* section of the page to adjust the spacing between the image and the text. The contents of the *Options* section of the page may change depending on the selected wrap format.

New Paragraph

Check this box if you want OOO to start a new paragraph after the image even if it could still wrap around the image.

In background

This option becomes available if **Through Wrap** is selected; it moves the image in the background.

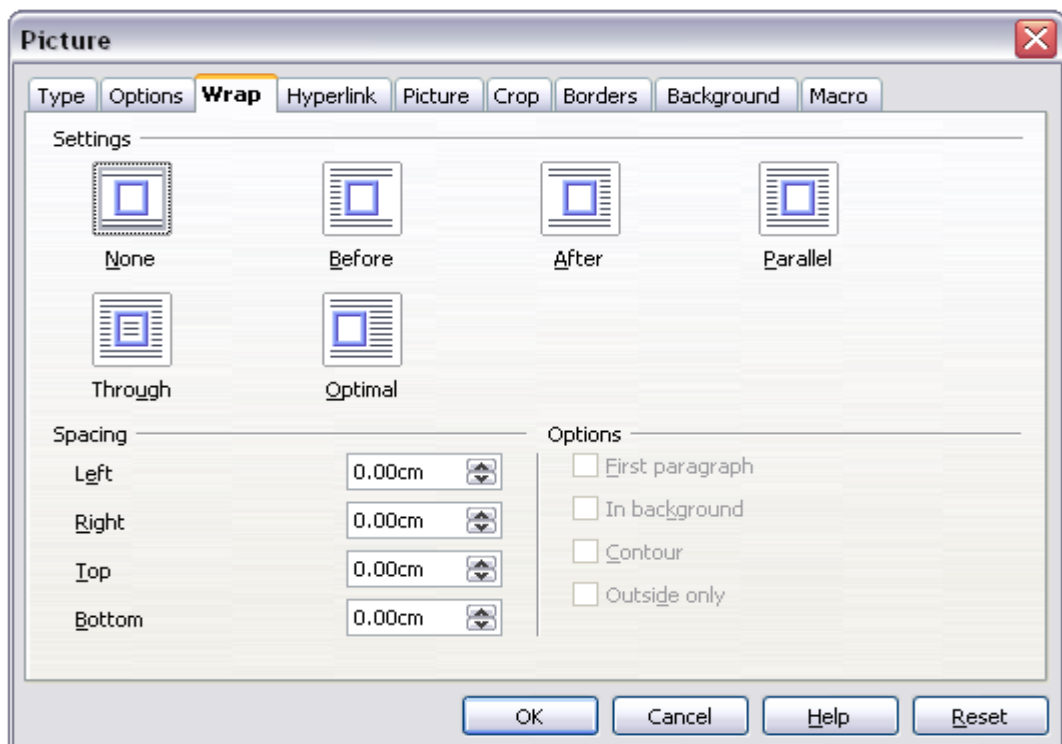


Figure 14: The advanced wrap format options dialog box (shown for an image)

Contour

Wraps the text around a custom contour rather than around the edge of the picture. This option is only available for Page or Optimal Page Wrap.

Outside only

Forces the text to wrap on the outside of the image, even if the contour contains open areas within the shape.

Editing the contour

This option is only available for image wrapping. If you select wrapping around a drawing object, Oo automatically creates a contour. You can access the Contour Editor by selecting **Format > Wrap > Edit Contour** or from the right-click menu

The dialog box of Figure 15 opens with the image loaded in the main window. Use the tools to draw the region of the image you do **not** want to be covered by the text—such area will be shaded.

Some familiarity with drawing tools is required to create complex contours; however, in most circumstances there is no need for high accuracy. Figure 15 shows the actual contour used for “Example 2: simple contour wrapping in action” and as you can see the shape of the line around the edge of the sphere is far from perfect.

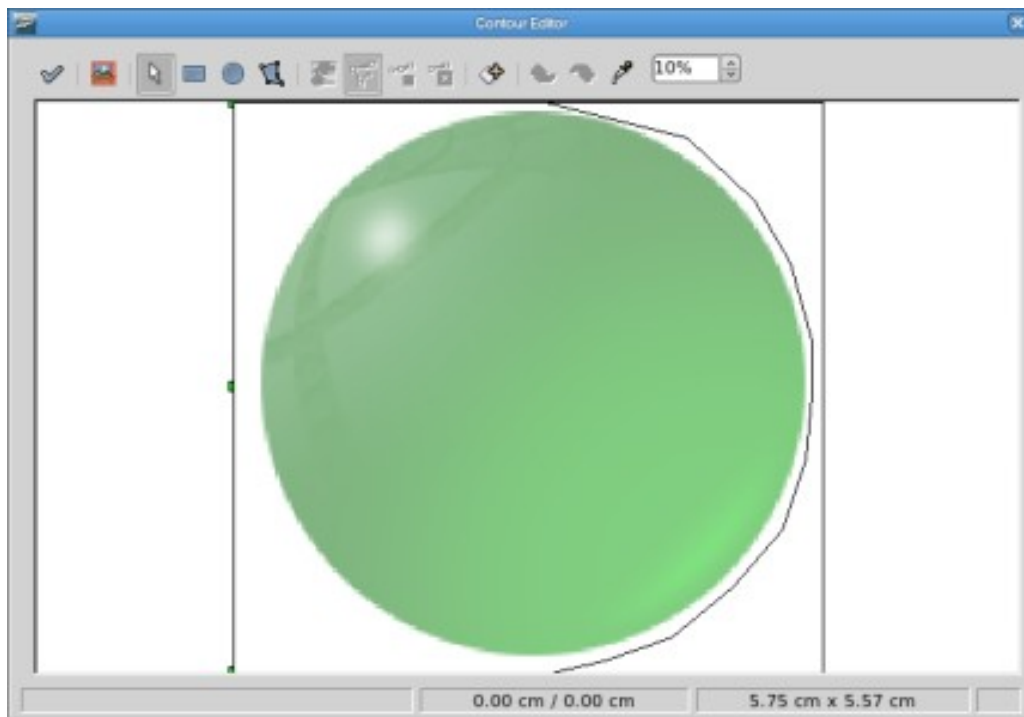


Figure 15: The Contour Editor in action

When you are done, click on the **Apply** button to save the contour. If you are not satisfied with the result, you can select the contour line and press the *Delete* key to restart. You can also undo the previous steps or you can select the **Edit Points** button and adjust the contour shape point by point.

For simple images, the **AutoContour** button does a decent job. If the contour has to be drawn around an area with the same or a similar color, you can select this region using the eyedropper. Select this tool, then click on a point in the image having the desired color. OOo automatically selects all the points which have the same or a similar color. The similarity level can be changed by modifying the value in the tolerance box (100% = perfect match).

Note

While all the positioning techniques discussed in this section apply equally to frames, contour wrapping is not possible.

Example 1: page wrapping

Figure 16 shows an example of page wrapping in action. The process to obtain this is the following:

- 1) Insert the image into the document, then anchor it to the first paragraph. To move the anchor, select the image and move it until the anchor symbol is at the beginning of the paragraph. Do not worry about the position as that will be fixed in the next step.

- 2) Align the image so that the left margin of the image is in line with the paragraph indentation. This can be done with the mouse or using the advanced settings. In the example, the image is placed at 1 cm from the left of the paragraph area.
- 3) Change the wrap to Page Wrap. It starts out OK; however, there is still too little space between the image and the text. To correct it, access the Wrap page of the Picture dialog box and set the gap between the image and text to 0.2 cm in the *Right* and *Bottom* boxes.
- 4) The last touch is to change the position so that the image is below the first line of the paragraph. Again, you can use the mouse to drag the image or use the advanced settings, which require a bit of trial and error. It turns out that the particular line height used in this guide—0.75 cm from the top margin of the paragraph—is a good value.

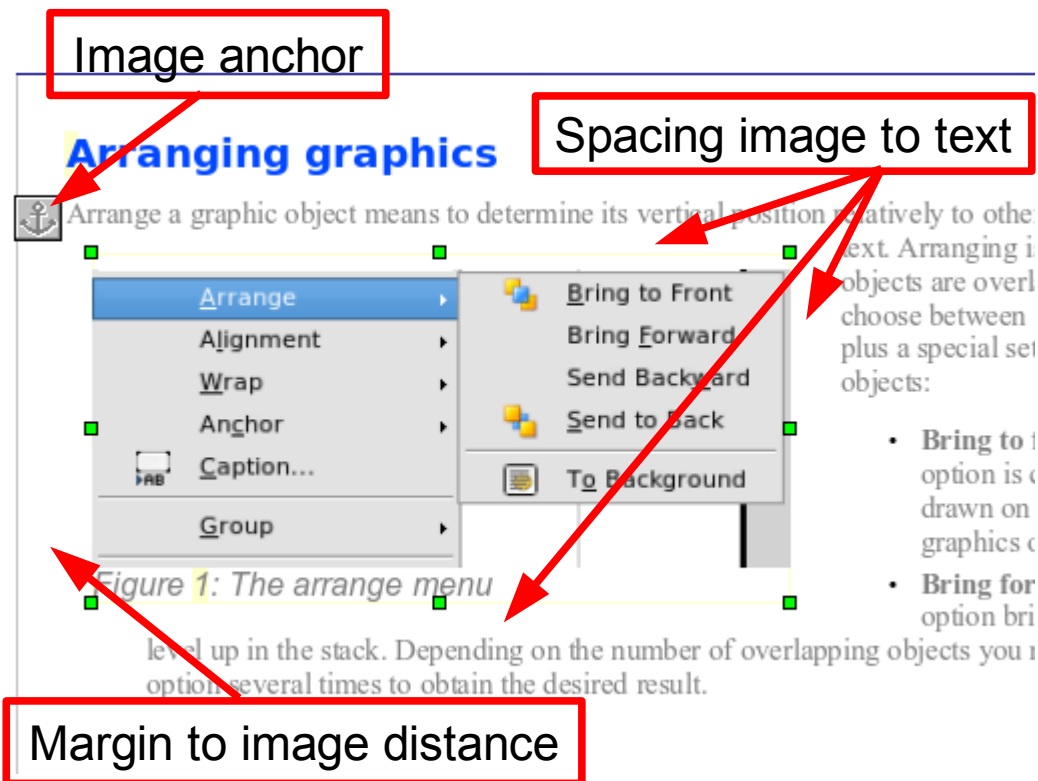


Figure 16: Example of image with Page Wrap formatting

Example 2: simple contour wrapping in action

In this example we again apply page wrapping as in example 1, enabling this time the contour option. We will work on an image and on a drawing object as the contour option works slightly differently in the two cases.

The example of Figure 17 has been built following the steps below, which you can use to practice:

- 1) Create some text (a very quick way to do that is to use the dummy text AutoText. That is, type DT and then press the *F3* key).
- 2) Insert an image of your choice and anchor it to the first paragraph. Adjust the alignment as desired then change the wrap type to Page Wrap.
- 3) Right-click on the picture to select the option **Wrap > Contour**, then right-click again and select **Wrap > Edit Contour** from the pop-up menu.
- 4) Use the technique discussed in “Editing the contour” on page 26 to create a custom contour and click **Apply**. If needed, adjust the spacing between the edge of the image and the text.
- 5) Insert an AutoShape of your choice (a rotated triangle in the example) and proceed as in step 2 above.

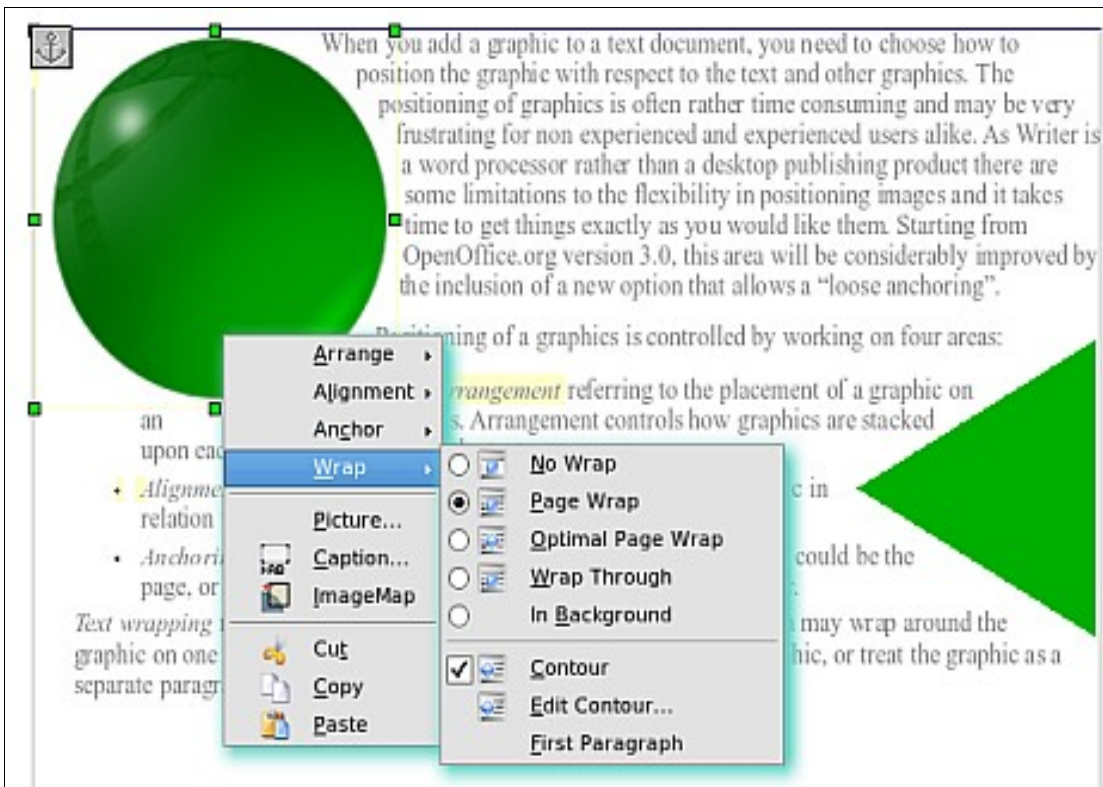


Figure 17: Image and drawing object with contour wrapping

- 6) Enable the contour wrap by selecting **Format > Wrap > Contour** from the main menu. As discussed previously, OOo automatically generates the contour. You may need to adjust the distance between the drawing object and the text.

Example 3: Wrap Through and In Background

This example shows how to use an image as a watermark by wrapping it through the text and adjusting the transparency. This is not the best way to create watermarks and it is presented here only for its illustration purposes. If you need to create a watermark, it is best to use a Fontworks object wrapped in the background.

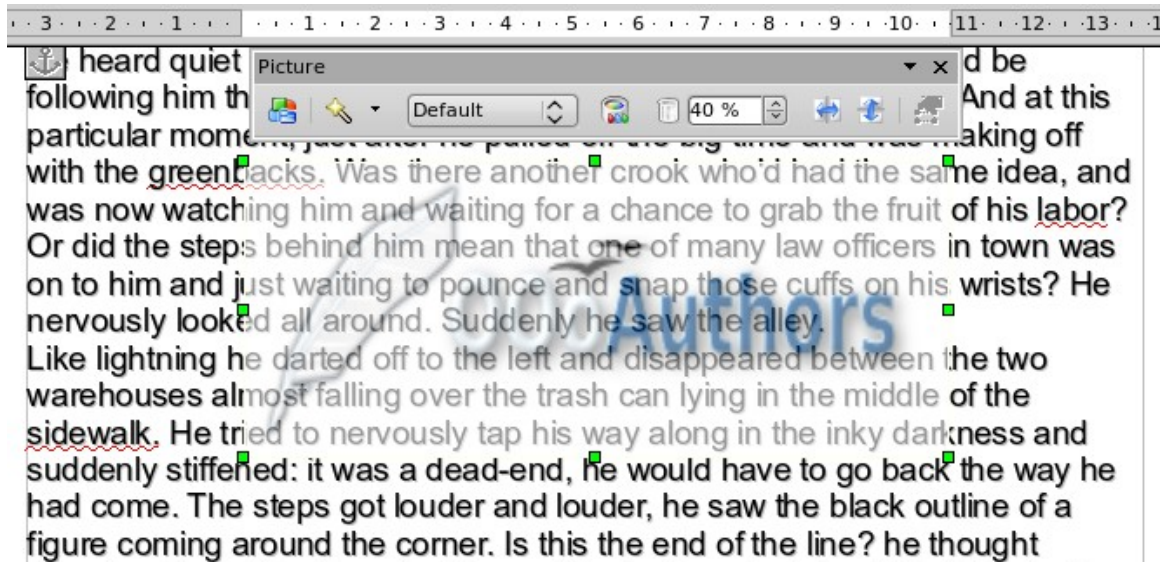


Figure 18: Transparent image added over the text

The Wrap Through option inserts an image overlapping the text which as a result will be hidden. To make the text appear, change the transparency of the picture; although the words under the image become visible, they may be difficult to read and will appear lighter than the rest of the text.

To reproduce the example of Figure 18 create some dummy text, then insert the image of your choice. Anchor the image (to the page in the example) and select the wrap through option from the **Format > Wrap** menu or right-clicking on the image and selecting **Wrap > Wrap Through** from the pop-up menu. Move the image into the desired position. The Picture toolbar should be displayed when the image is selected. Change the transparency to a suitable value (in the example this is 40%) so that the text can be read. In the example, a shadow effect is applied to the text (**Format > Character** then select *Shadow* in the *Font Effects* page).

You can obtain a better result if you set a graphic's wrap to *In Background*. In this case all the text will be clearly readable, with characters that have the same intensity as long as the background is not too dark. Also in this case you may want to adjust the transparency of the image.

Adding captions to graphics

You can add captions to graphics in three ways: automatically, by using the Caption dialog box, or manually.

Adding captions automatically

You can set up OOO to add captions automatically whenever you insert a graphic, a table, or other objects into a document. You can choose which objects are captioned automatically, what the sequence name is for each caption (for example, “Table” or “Illustration”), and the position of the caption.

To set up automatic captions:

- 1) Click **Tools > Options**. On the *Options* dialog box, click on the + sign next to OpenOffice.org Writer to show a list of options.
- 2) Select **AutoCaption**. Now you can see several choices at the right of the dialog box for adding captions automatically.
- 3) Choose which objects you want to be automatically captioned and specify the characteristics of the captions.

For more information, see “AutoCaption options” in Chapter 2 (Setting up Writer).

When you insert a graphic, if automatic captioning is enabled, the graphic is placed in a frame along with a caption containing the default sequence name for graphics—Illustration. Position the cursor in the caption area and type the text for the caption. You can change the sequence name by selecting one from the drop-down Category list.

Note

You can specify where to place an automatic caption for any object except a picture; picture captions can only be automatically placed below the picture. If you need a caption above the picture (for example, for data plots in scientific publications), you must add the captions manually, as described in “Adding captions manually” on page 33.

Tip

A common sequence name—Figure—is not one of the names provided: **<None>**, **Drawing**, **Illustration**, **Table**, and **Text**. If you want the name “Figure” or any other custom name for your graphics, do the following:

- 1) Open the **Options – OpenOffice.org Writer – AutoCaption** dialog box, as described above.
 - 2) In the *Add captions automatically when inserting* section, select **OpenOffice.org Writer Picture**. This activates the Caption area in the dialog box for pictures (graphics).
 - 3) Under the *Category* drop-down list, enter the name that you want added (say, **Figure**), by overwriting any sequence name in the list. (Overwriting a term does not delete it from the drop-down list.) You can also set some options for the number style and for a separator between the name and the number, if desired. Click **OK** to save the changes.
-

Using the Caption dialog box

To add captions using the Caption dialog box:

- 1) Insert the graphic, then select it and click **Insert > Caption**.
- 2) Under *Properties* on the Caption dialog box (Figure 20), make your selections for the *Category*, *Numbering*, and *Separator* fields (**Illustration**, **Arabic (1 2 3)**, and a colon (:)), respectively, for the example in Figure 19 and type your caption text in the *Caption* text box at the top. Whatever text you enter for the caption appears in the box at the bottom, after the sequence name, number, and separator.
- 3) Click **OK**. The graphic and its caption are placed in a frame, as shown in Figure 20.

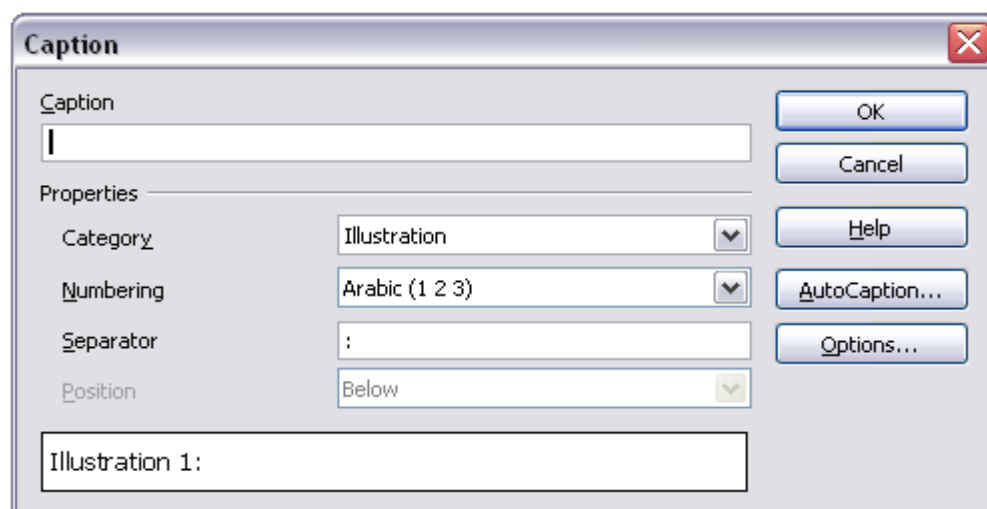


Figure 19. Defining the caption for an illustration

Tip

In the Category box, you can type any name you want, for example, Figure. OOo will create a numbering sequence using that name.

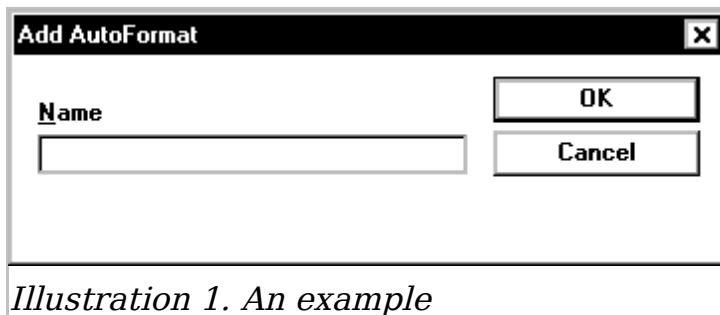


Figure 20. An example of a graphic and its caption contained in a frame. The outer box shows the edge of the frame; this border is normally set to be invisible.

Overriding the default positioning of captions

The default positioning for picture captions is *Below*, and that position cannot be changed using the Caption dialog. However, you can override the positioning manually, as follows:

- 1) Follow the instructions in “Using the Caption dialog box” on page 32 to create the caption.
- 2) Right-click on the picture (not the frame surrounding picture and caption) and make sure that **Anchor > To paragraph** is selected.
- 3) Left-click on the picture and drag it below the caption.

Tip

You may wish to adjust the spacing above and below the caption text, to fine-tune the appearance of the picture and its caption.

Adding captions manually

If you need to save as .DOC files or export in other formats, you may find that captions applied as described above (either automatically or using the Caption dialog box) are lost during the export. To avoid export problems, or as another way to put captions above pictures or below them (the usual case), you can add a caption manually, in either of two ways:

- Place the graphic and its caption in separate paragraphs.
- Use a table.

Place the graphic and its caption in separate paragraphs

Insert the graphic and anchor it to its paragraph as a character. Press *Enter* to create a new paragraph for the caption.

- 1) In the caption paragraph, type, for example, **Figure** and add a space.
- 2) To insert the figure number automatically, click **Insert > Fields > Other** (*Control + F2*) and select the Variables tab.
- 3) Select **Number range** in the *Type* list. Select **Figure** in the Selection list and choose, for example, **Arabic (1 2 3)** in the Format drop-down list. Click the **Insert** button.
- 4) A number will appear after the word “Figure” in the caption. Now, type the text of the caption.

Tips

If you are manually adding captions to a lot of figures using this method, you might want to make an AutoText entry containing, for example, **Figure** and a space, the figure-number field, and an optional separator and a space after it. You can also place the caption paragraph before (above) the picture paragraph. Using AutoText can be a convenient way to deal with the lack of automatic captioning above pictures. To ensure the picture and its caption stay together on the page: if the picture is going above the caption, define the text flow of the Figure paragraph style as **Keep with next paragraph** and the next style as **Caption**. Conversely, if the caption is going above, define the Caption paragraph style as **Keep with next paragraph** and the next style as **Figure**.

Use a table

Create a one-column, two-row table. Place the picture in one row and type the caption in the other row—or use two or more rows for the caption and other text. This method can be especially useful for pictures with numbered legends, such as Figure 11 in this chapter.

Adding an image to the Gallery

You may wish to add to the Gallery any images that you use frequently, for example, a company logo. You can then very easily insert these graphics into a document later.

To add images to the Gallery, proceed as follows:

- 1) Open the Gallery.

- 2) Select the theme where you want to add images, or you can create a new theme. Note that you can add images only to “My Theme” or to any other theme that you have created; these are indicated by a green icon in the list of themes. You cannot add images to the built-in themes, indicated by an icon of another color.

To create a new theme:

- a) Click the **New Theme** button above the list box of Themes. The Properties of New Theme dialog box opens, which is similar to the one shown in Figure 21.
 - b) Select the **General** tab (not shown) and type a name for the new theme in the text box.
 - c) Select the **Files** tab, skip step 3, and continue with step 4.
- 3) Right-click on the desired theme and select **Properties** in the pop-up menu. This displays a window from which to select the files to be added.

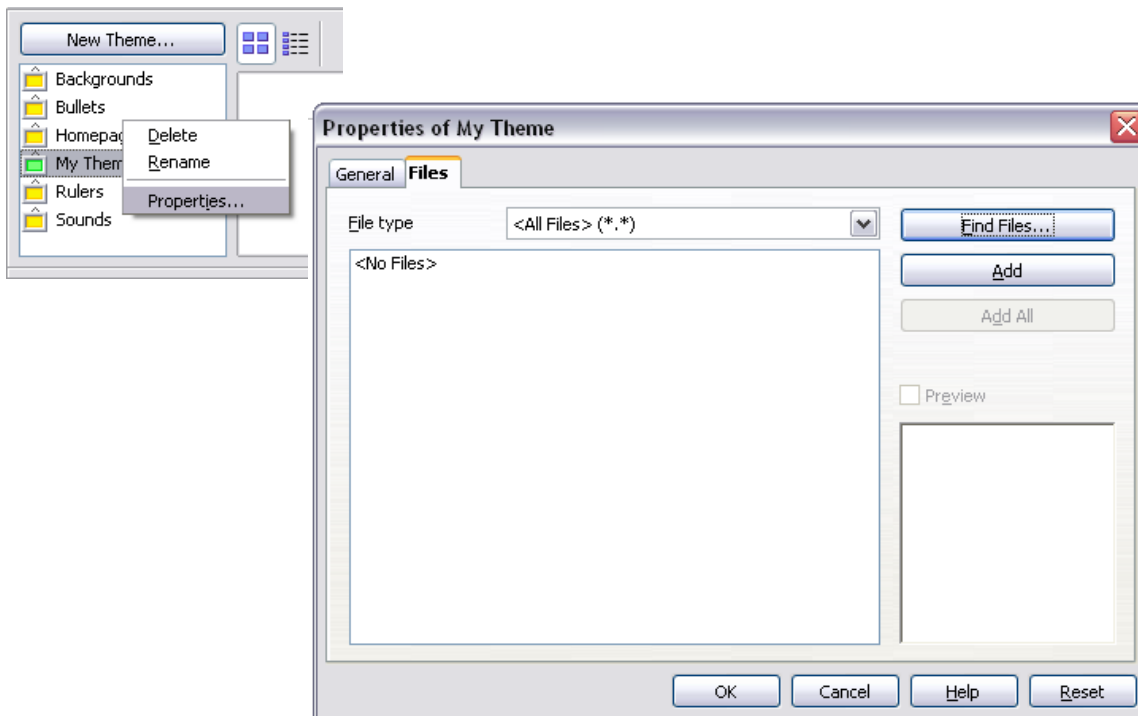



Figure 21. Gallery properties dialog box

- 4) On the *Files* page, click the **Find Files** button. The Select path dialog box opens.
- 5) 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. Use the *File type* drop-down list to help limit the search.

- 6) Click the **Select** button to start the search. A list of graphic files is then displayed in the window. You can use the File type filter again to further limit the search.
- 7) Select the files to add. To select more than one file, hold the *Control* key down while you click on each file.
- 8) Finally, click **Add**.
- 9) When you have finished working with the Gallery, you can click on its icon  to close it.

Note

This procedure assumes that the graphic files for the themes already exist. You may need to import some graphics or to create your own onto your computer if the existing files are insufficient.

Note

Similar to the file search function on various operating systems, **Find Files** searches for graphic files in any subfolders of the directory selected in step 5.

Graphic file types supported

OpenOffice.org Writer can open the file types listed in Table 2. Many of these file types are hyperlinked to Wikipedia for their definitions and other information.

Table 2. Graphic file types supported by OpenOffice.org Writer

File extension	File type
BMP	Windows Bitmap
DXF	AutoCAD Drawing Interchange (Exchange) Format
EMF	Enhanced Metafile
EPS	Encapsulated PostScript
GIF	Graphics Interchange Format
JPG, JPEG, JFIF, JIF	Joint Photographic Experts Group
MET	OS/2 Metafile
PBM	Portable Bitmap
PCD	Kodak Photo CD
PCT	Macintosh QuickDraw PICT
PCX	Zsoft PC Paintbrush
PGM	Portable Graymap
PNG	Portable Network Graphics
PPM	Portable Pixelmap
PSD	Adobe Photoshop Document
RAS	Sun Raster Image
SGF	StarWriter Graphics Format
SGV	StarDraw 2.0
SVM	StarView Metafile
TGA	Truevision Targa
TIF, TIFF	Tagged Image File Format
WMF	Windows Metafile
XBM	X Bitmap
XPM	X PixMap