

**LibreOffice**  
The Document Foundation

## Impress Guide

# *Chapter 5*

## *Managing Graphic Objects*

## Copyright

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## Note for Mac users

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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.

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

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<b>Tool</b>	<b>Name</b>	<b>Purpose</b>
	Rectangle	Draws a rectangle when you drag the mouse from the top left to the bottom right corner. Press the <i>Shift</i> key to draw a square. Press the <i>Alt</i> key to draw a rectangle or square from its center.
	Ellipse	Draws an ellipse. Press the <i>Shift</i> key to draw a circle. Press the <i>Alt</i> key to draw an ellipse or circle from its center.
	Text	Creates a text box with text aligned horizontally.
	Vertical Text	Creates a text box with text aligned vertically. This tool is available only when Asian language support has been enabled in <b>Tools &gt; Options &gt; Language Settings &gt; Languages</b> .
	Curve	Draws a shape depending on the option that has been selected. Click the triangle to the right of the tool icon to show the available options. Actual icon shown will depend on the option that has been selected. Note that the title of this submenu when undocked from the Drawing toolbar is <i>Lines</i> . 
	Connector	Draws a connector line between two figures. Click the triangle to the right of the tool icon to show the available options. Actual icon shown will depend on the option that has been selected. Each option is described in “Working with connectors” on page 24. 
	Lines and Arrows	Draws a line ending in an arrow. Click the triangle to the right of the tool icon to show the available options. Actual icon shown will depend on the option that has been selected. Note that the title of this submenu when undocked from the Drawing toolbar is <i>Arrows</i> . 
	Basic Shapes	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 

<b>Tool</b>	<b>Name</b>	<b>Purpose</b>
	Symbol Shapes	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 
	Block Arrows	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 
	Flowcharts	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 
	Callouts	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 
	Stars	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. 
	Points	Edits the individual points that form the shape or line. Select this tool and then select a shape or a line. You can also press the <i>F8</i> key to select this tool.
	Glue Points	Edits the glue points of a graphic object. Glue points are the positions where connector lines terminate or start. See “Managing glue points” on page 25 for instructions.
	Fontwork Gallery	Opens the Fontwork gallery. See “Using Fontwork” on page 29 for further information.
	From File	Equivalent to <b>Insert &gt; Picture &gt; From file</b> on the main menu bar. See <i>Chapter 4 Adding and Formatting Pictures</i> for details.

<b>Tool</b>	<b>Name</b>	<b>Purpose</b>
	Gallery	Opens the gallery. Equivalent to <b>Tools &gt; Gallery</b> on the main menu bar. See <i>Chapter 4 Adding and Formatting Pictures</i> for details.
	Extrusion On/Off	Switches 3D effects on or off for the selected object. Clicking this button also opens the 3D settings toolbar. See “Working with 3D objects” on page 26 for details.

## Additional drawing tools

In addition to the default set of drawing tools available on the Drawing toolbar (Figure 1), you can install additional tools. These additional tools are described in Table 2.

To install additional tools onto the Drawing toolbar:

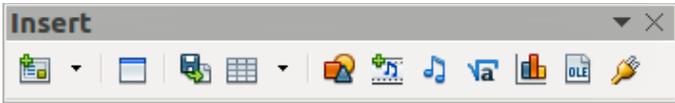
- 1) Right-click on an empty area on the Drawing toolbar.
- 2) Select **Visible Buttons** from the context menu to display a list of the available tools.
- 3) To install a tool, click on it and the tool will appear in the Drawing toolbar. The list of available tools will close automatically. Installed tools are indicated by a border around the icon.

To remove any additional tools from the Drawing toolbar:

- 1) Right-click on an empty area on the Drawing toolbar.
- 2) Select **Visible Buttons** from the context menu to display a list of the available tools.
- 3) To remove a tool, click on it and the tool is removed from the Drawing toolbar. Uninstalling a tool removes the border around the tool icon. The list of available tools will close automatically.

Table 2: Additional drawing tools

<b>Tool</b>	<b>Name</b>	<b>Purpose</b>
	3D Objects	Click the triangle to the right of the tool icon to open a toolbar showing the available options. Actual icon shown will depend on the option that has been selected. Select the desired 3D shape, then draw it by placing your cursor on the slide and dragging your mouse to define an enclosing rectangle. Keep the <i>Shift</i> key pressed to obtain a 3D shape where the height and width are equal. Press the <i>Alt</i> key to draw a 3D shape from its center.  
	To Curve	Converts the selected object to a Bézier curve.
	To Polygon	Converts the selected object to a polygon (a closed object bounded by straight lines). The appearance of the object does not change. If you want, you can right-click and choose <i>Edit Points</i> to view the changes.
	To 3D	Converts the selected 2D object to a 3D object.
	To 3D Rotation Object	Converts the selected 2D object to a 3D rotation object.

<b>Tool</b>	<b>Name</b>	<b>Purpose</b>
	Insert	<p>Inserts a slide, table, from file, movie and sound, formula, or chart into your presentation. Click the triangle to the right of the tool icon to open the <b>Insert</b> toolbar showing the available options. Actual icon shown depends on the option that has been selected.</p> 
	Controls	<p>Inserts various form controls into your presentation. Click the triangle to the right of the tool icon to open the <b>Form Controls</b> toolbar showing the available options.</p> 
	Animated Image	<p>Adds animation to a selected object on a slide. Opens the <b>Animation</b> dialog.</p>

## Creating lines and shapes

Creating shapes and lines is basically the same procedure for all lines and shapes:

- 1) Click on the triangle to the right of the tool you want to use on the Drawing toolbar and select the desired tool from the available selection. Note that the tools on the Drawing toolbar show the last tool shape selected.
- 2) Position your cursor on the slide, then click and drag to create the line or shape.
- 3) Release the mouse button when you have drawn your line or shape. You can then modify and reposition your line or shape using the procedures described later in this chapter.

## Regular shapes

When creating shapes that are included in Impress, one or more dots may be displayed in a different color to the selection handles. These dots perform a different function according to the shape they are applied to, as listed below.

### Basic Shapes

- *Rounded rectangle* and *rounded square* – use the dot to change the radius of the curve that replaces the angled corners of a rectangle or square.
- *Circle pie* – use the dots to change the size of the filled sector.
- *Isosceles triangle* – use the dot to modify the shape and type of the triangle.
- *Trapezoid, parallelogram, hexagon, or octagon* – use the dot to change the internal angles between the sides.
- *Cross* – use the dot to change the thickness of the four arms of the cross.
- *Ring* – use the dot to change the internal diameter of the ring.
- *Block arc* – use the dot to change both internal diameter and size of the filled area.
- *Cylinder* and *cube* – use the dot to change the perspective.
- *Folded corner* – use the dot to change the size of the folded corner.
- *Frame* – use the dot to change the thickness of the frame.

## Symbol Shapes

- *Smiley face* – use the dot to change the smile on the face.
- *Sun, moon and heart* – use the dot to change the shape of the symbol.
- *Prohibited symbol* – use the dot to change the thickness of the ring and the diagonal bar.
- *Double bracket, left bracket, right bracket and double brace* – use the dot to change the curvature of the bracket.
- *Left brace and right brace* – use the dots to change the curvature of the brace and the position of the point.
- *Square bevel, octagon bevel and diamond bevel* – use the dot to change the thickness of the bevel.

## Block Arrows

- *Left arrow, right arrow, up arrow, down arrow, left and right arrow, up and down arrow, striped right arrow and notched right arrow* – use the dot to change the shape and thickness of the arrows.
- *Up and right arrow, up, right and down arrow and 4-way arrow* – use the dots to change the shape and thickness of the arrows.
- *Pentagon and chevron* – use the dot to change the angle between the sides and the shape.
- *Right arrow callout, left arrow callout, up arrow callout, down arrow callout, left and right arrow callout, up and down arrow callout, up and right arrow callout and 4-way arrow callout* – use the dots to change the shape and thickness of the callouts.
- *Circular arrow* – use the dots to change the thickness and area of the arrow.

## Callouts

- For all callouts use the dots to change the length, position and angle of the pointer.

## Stars

- *4-point star, 8-point star and 24-point star* – use the dot to change the thickness and shape of the star points.
- *Vertical scroll and horizontal scroll* – use the dot to change the width and shape of the scroll.
- *Doorplate* – use the dot to change the inward curvature of the corners.

## Curves, polygons and freeform lines

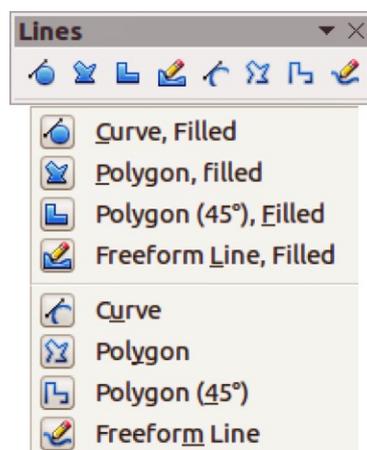


Figure 2: Lines (curves) toolbar

To draw a curve, polygon, or freeform line, click the **Curve** icon  on the Drawing toolbar. The default action of this tool is to show the last selected tool and, by default, the last selected tool will be used. To use a different tool, click on the triangle to the right of the icon to open the tools that are available (Figure 2). Note that the title of this tool submenu when undocked from the Drawing toolbar is *Lines*.

If a filled curve, polygon, or freeform line was selected, Impress draws the line connecting the last point to the start point and fills the inside area with the default color.

## Curves

- 1) Select either **Curve filled** or **Curve**.
- 2) Click and hold the left mouse button to create the starting point of your curve.
- 3) While holding down the left mouse button, drag from the starting point to draw a line.
- 4) Release the left mouse button and continue to drag the cursor to bend the line into a curve.
- 5) Click to set the end point of the curve and fix the line on the page.
- 6) To continue with the line, drag the mouse cursor to draw a straight line. Each mouse click sets a corner point and allows you to continue drawing another straight line from the corner point.
- 7) Double-click to end the drawing of your line.

### Note

Holding down the *Shift* key when drawing lines with the Curve or Polygon tools will also restrict the angles between the lines to 45 or 90 degrees.

## Polygons

- 1) Select either **Polygon filled** or **Polygon**.
- 2) Click and draw the first line from the start point with the left mouse button held down. As soon as you release the mouse button, a line between the first and second points is drawn.
- 3) Move the cursor to draw the next line. Each mouse click sets a corner point and allows you to draw another line.
- 4) Double-click to end the drawing of your polygon.

## Polygons 45°

Select either **Polygon (45°) filled** or **Polygon (45°)** and these polygons are drawn in the same way as polygons above. However, the angles between line segments are restricted to 45 or 90 degrees as you draw your polygon.

## Freeform lines

Using the Freeform Line tools is similar to drawing with a pencil on paper.

- 1) Select either **Freeform line filled** or **Freeform line**.
- 2) Press and hold the left mouse button and drag the cursor to the line shape you require.
- 3) When you finished drawing your freeform line, release the mouse button and the drawing is completed.

## Grouping objects together

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It is often convenient to group objects together so that they are treated as a single object by Impress. A group of objects can be formatted as if it was a single object, moved, rotated, deleted, and so on.

This section gives only a brief introduction to grouping of objects. For more information on working with grouped objects, see the *Draw Guide Chapter 5 Combining Multiple Objects*.

### Grouping

To group objects together:

- 1) Select the objects to be grouped using the selection tool on the Drawing toolbar and draw a rectangle around the objects to be grouped, or hold down the *Shift* key and click on each object. To select all the objects, go to **Edit > Select All** on the main menu bar or use the keyboard combination *Ctrl+A*.
- 2) When the selection handles are displayed, go to **Format > Group > Group** on the main menu bar or use the keyboard combination *Ctrl+Shift+G* or right-click on an object within the selected group and select **Group** from the context menu.

### Editing or formatting groups

To edit or format a group of objects:

- 1) Click on any one of the objects in the group to select the group. Any editing or formatting is then carried out on all the objects within the group.
- 2) To edit an individual object within a group:
  - a) After selecting the group, press the *F3* key or go to **Format > Group > Enter Group** on the main menu bar or right-click and select **Enter Group** from the context menu.
  - b) Select individual objects within the group for editing or formatting.
  - c) When you have finished editing or formatting, use the keyboard combination *Ctrl+F3* or go to **Format > Group > Exit group** on the main menu bar or right-click and select **Exit Group** from the context menu. The whole group then becomes selected.

### Ungrouping

To ungroup objects:

- 1) Click on any one of the objects in the group to select the group.
- 2) When the selection handles are displayed, go to **Format > Group > Ungroup** on the menu bar or use the keyboard combination *Ctrl+Alt+Shift+G* or right-click on the group and select **Ungroup** from the context menu.

#### Tip

If you use the group and ungroup commands often, why not add them to one of the toolbars shown by default so that the commands are readily available? To do so, you will need to customize the selected toolbar. See *Chapter 11 Setting Up and Customizing Impress*.

## Positioning graphic objects

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### Using a mouse

To position a graphic object using a mouse:

- 1) Click on a graphic object or a group of objects to display the selection handles.
- 2) Move the cursor over a selected graphic object until the cursor changes shape. For example, on most operating systems, the cursor associated with moving objects is a clenched hand or a four-headed arrow.
- 3) Click and drag the graphic object to the desired position. You can also use the arrow keys to move the selected object or group to a new position.
- 4) Release the mouse button.

#### Tip

By default Impress makes the objects snap to the grid. If you need to position the object between two points of the grid, hold down the *Ctrl* key, then click on the object and move it to the desired position. Alternatively, you can turn off this snap function or modify the grid resolution by going to **Tools > Options > LibreOffice Impress > Grid**.

### Using the Position and Size dialog

For a more accurate placement of the graphic object, use the Position and Size dialog (Figure 3):

- 1) With the object selected and the selection handles displayed, press *F4* or go to **Format > Position and Size** on the main menu bar, or right-click on the selected object and select **Position and Size** from the context menu.
- 2) Click on the **Position and Size** tab.

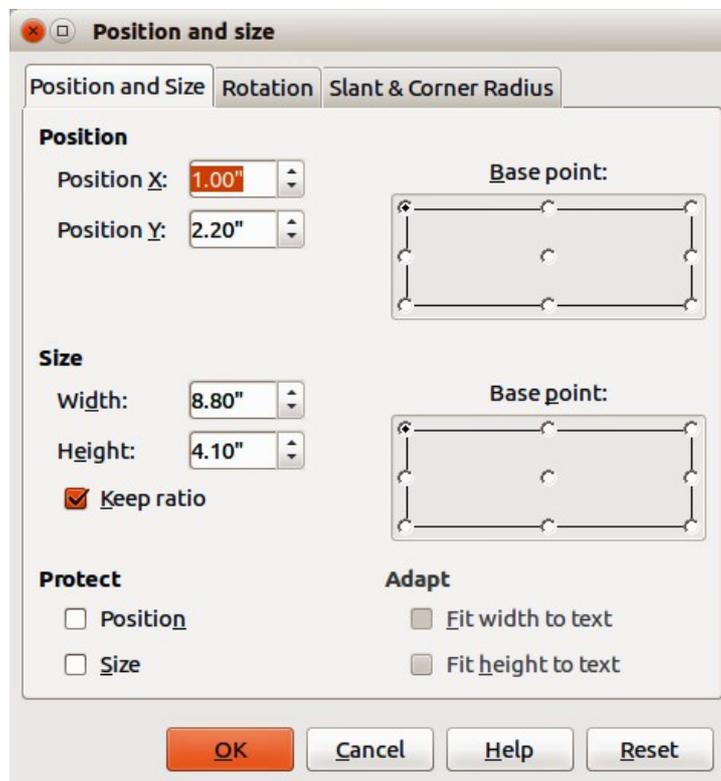


Figure 3: Position and Size dialog

- 3) Use the *Position* section of the dialog to specify the X (horizontal) and Y (vertical) position of the graphic object. The values represent the distance of the base point selected on the right hand side of the dialog. The default selection for base point is relative to the top left corner of the slide.
- 4) To prevent accidental modification of the position of the graphic object, select the *Position* option in the **Protect** section of the dialog.
- 5) Click **OK** when satisfied and to close the dialog.

### Note

The units of measurement for this dialog and other dialogs in Impress are set in **Tools > Options > LibreOffice Impress > General**.

## Using the Sidebar

You can use the *Position and Size* subsection on the Sidebar to position a graphic object. After

selecting the graphic object, click on the **Properties** icon  on the Sidebar and then click on the plus (+) sign next to the title to open the *Position and Size* subsection (Figure 4).

Use the **Horizontal** and **Vertical** text boxes and enter the values you want to use for the X (horizontal) and Y (vertical) position of the graphic object. The values represent the distance of the selected base point and the default position is the top left corner of the slide.

### Note

Clicking on the **More Options** icon on the *Sidebar Position and Size* subsection will open the Position and Size dialog.

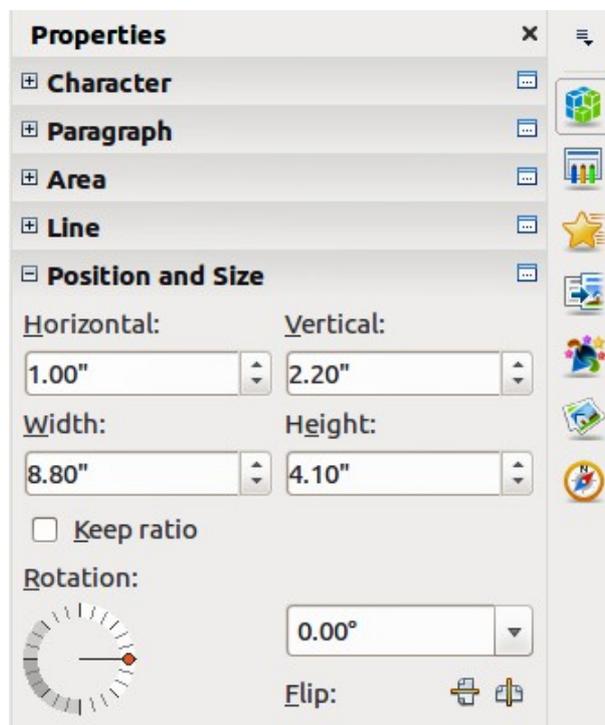


Figure 4: Sidebar – Position and Size subsection

## Resizing graphic objects

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### Using a mouse

To resize a graphic object using a mouse:

- 1) Click on a graphic object or a group of objects to display the selection handles.
- 2) Position the pointer over one of the selection handles. The pointer changes shape giving a graphical representation of the direction of the resizing. The corner handles resize both the width and the height of the graphic object simultaneously, while the other four handles resize only one dimension at a time.
- 3) Click and drag to resize the graphic object.
- 4) Release the mouse button to complete resizing.

#### Tip

To retain the original proportions of the graphic, *Shift*+click one of the corner handles, then drag. Release the mouse button **before** releasing the *Shift* key.

### Using the Position and Size dialog

For more accurate resizing of the graphic object, use the Position and Size dialog (Figure 3):

- 1) With the object selected and the selection handles displayed, press *F4* or go to **Format > Position and Size** on the main menu bar, or right-click on the selected object and select **Position and Size** from the context menu.
- 2) Click on the **Position and Size** tab.
- 3) Select as the base point the part of the graphic object that you would like to anchor to the page. The default selection of top left corner means, that when resizing, the position of the top left corner of the object will not change.
- 4) Now modify either the *Width* value or the *Height* value of the object in the **Size** section.
- 5) To maintain the proportions between width and height, select the **Keep ratio** option before modifying any value. When **Keep ratio** is selected, changes to one dimension results in an automatic change to the other with the ratio between width and height maintained.
- 6) To prevent accidental modifications of the size, select the *Size* option in the **Protect** section of the dialog.
- 7) Click **OK** when satisfied and to close the dialog.

### Using the Sidebar

You can use the *Position and Size* subsection on the Sidebar to resize a graphic object. After

selecting your graphic object, click on the **Properties** icon  on the Sidebar and then click on then click on the plus (+) sign next to the title to open the *Position and Size* subsection (Figure 4).

Use the **Width** and **Height** text boxes and enter the values for the width and height of the graphic object. To maintain the ratio between width and height of a graphic object, select the **Keep ratio** option.

#### Note

Clicking on the **More Options** icon on the *Sidebar Position and Size* subsection will open the Position and Size dialog.

## Applying special effects

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As well as the basic actions of moving and resizing an object, a number of special effects can also be applied to objects in Impress. Several of these effects are readily available in the Mode toolbar (Figure 5). If the Mode toolbar is not showing, select it from **View > Toolbars > Mode**.

This section describes how to rotate, flip, distort and two ways of setting an object in a circle. The transparency and gradient tools are more specific to formatting and are discussed in *Chapter 6 Formatting Graphic Objects*.

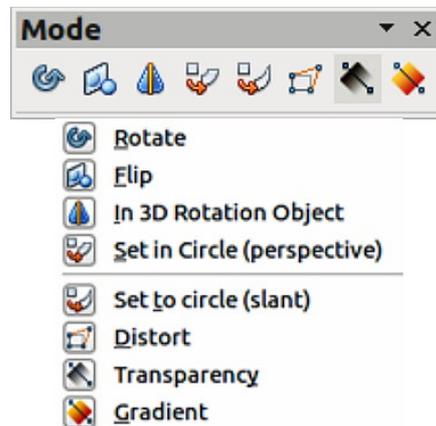


Figure 5: Mode toolbar

### Rotating graphic objects

Rotation of an object can be carried out either using your mouse, using a dedicated dialog, or using the Sidebar. This is similar to changing position and size of an object.

#### Using a mouse

To rotate a graphic using a mouse:

- 1) Click on a graphic object and the selection handles will show.
- 2) Click the **Rotate** icon  on the Line and Filling or Mode toolbars or click again on the graphic object. The square selection handles change shape and also change color (Figure 6). Also, a pivot point indicating the rotation center appears in the center of the object.
- 3) Move the mouse over one of the corner handles and the mouse cursor shape will change.
- 4) Click the mouse and move in the direction in which you want to rotate the graphic object. Only the corner selection handles are active for rotation.
- 5) When satisfied with the rotation, release the mouse button.
- 6) To change the rotation center of the object, click and drag the pivot point to the desired position before rotating. The pivot point can be moved to any position on the slide, even outside of the object boundaries.
- 7) To restrict the rotation angles to multiples of 15 degrees, press and hold the *Shift* key while rotating the graphic. This is very handy for rotating pictures through a right angle, for example from portrait to landscape. Remember to release the *Shift* key before releasing the mouse button.

#### Note

The icons representing the functions in the toolbars may be different depending on the operating system used and on whether LibreOffice has been customized. When in doubt, hover the mouse over an icon and wait for the tooltip to appear showing the name of the icon.

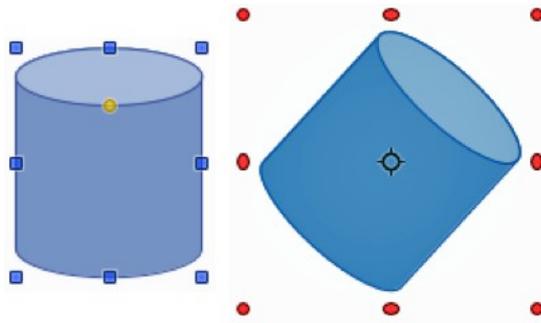


Figure 6: Object selected for rotation

### Using the Position and Size dialog

Instead of rotating a graphic object manually, you can use the **Rotation** page of the Position and Size dialog (Figure 7) to accurately rotate an object in degrees:

- 1) With the object selected and the selection handles displayed, press *F4* or go to **Format > Position and Size** on the main menu bar, or right-click on the selected object and select **Position and Size** from the context menu.
- 2) Click on the **Rotation** tab.

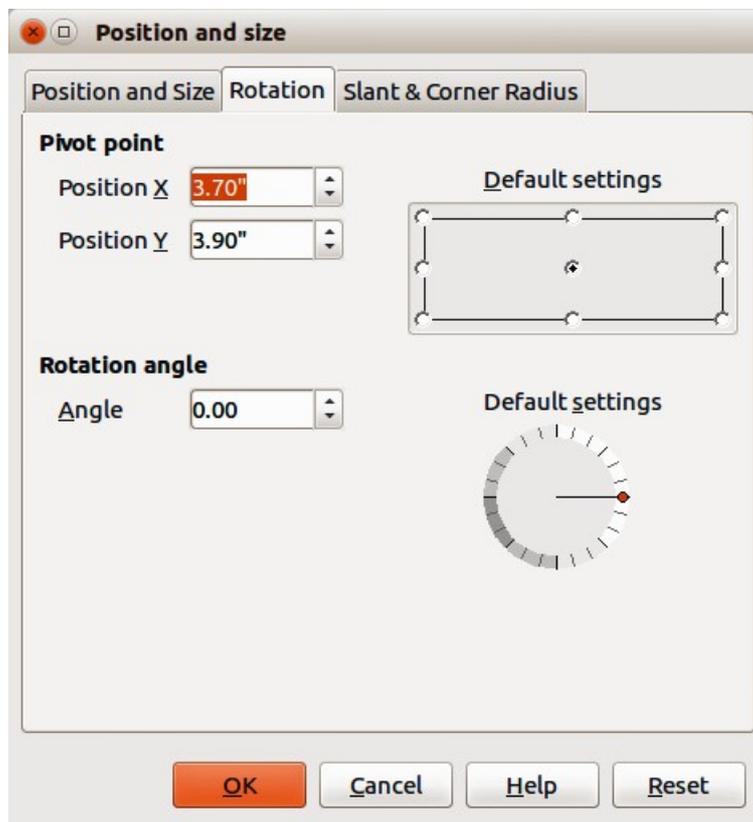


Figure 7: Rotation page of the Position and Size dialog

- 3) In the **Pivot point** section, select the position of the pivot point. The default position of the pivot point is the center of the object.
- 4) In the **Rotation angle** section, enter the degrees in the *Angle* text box by which to rotate the graphic object.
- 5) Alternatively, in *Default settings*, click on the *Rotation Angle* indicator and drag it to a new angle. The angle of rotation is displayed in the *Angle* text box.
- 6) Click **OK** when satisfied and to close the dialog.

## Using the Sidebar

You can use the *Position and Size* subsection on the Sidebar to rotate a graphic object. After

selecting your graphic object, click on the **Properties** icon  on the Sidebar and then click on the plus (+) sign next to the title to open the *Position and Size* subsection (Figure 4).

In *Rotation*, either, click on the **Rotation Angle** indicator and drag it to a new angle, or enter the rotation angle in *Rotation* text box, or select an angle setting from the drop-down list.

### Note

Clicking on the **More Options** icon on the *Sidebar Position and Size* subsection will open the Position and Size dialog.

## Flipping objects

### Using the context menu

The quickest and easiest method to flip an object horizontally or vertically is as follows:

- 1) Click on a graphic object to display the selection handles.
- 2) Right-click on the selected object and select **Flip > Horizontally** or **Flip > Vertically** from the context menu to flip the selected object so it faces the other direction.

### Using the Flip tool

The Flip tool on the Drawing or Mode toolbar can also be used. Using this tool also allows you to change the position and angle that the object flips over (Figure 8).

- 1) Click on a graphic object and the selection handles will show.
- 2) Click on the **Flip** icon  on the Drawing or Mode toolbar and the *axis of symmetry* appears as a dashed line through the center of the object. The object will be flipped about this axis of symmetry.
- 3) Click and drag the axis of symmetry to a new position, or position the cursor in one of the circles at each end of the axis of symmetry and drag with your mouse cursor to change the angle.
- 4) Place the mouse cursor over one of the object selection handles until it changes shape.
- 5) Click and drag your cursor across the axis of symmetry to flip the object. The new position of the object is shown faintly until the mouse is released.
- 6) Release the mouse button and the object will appear flipped over. Angle and position of the flip will depend on the angle and position of the axis of symmetry.

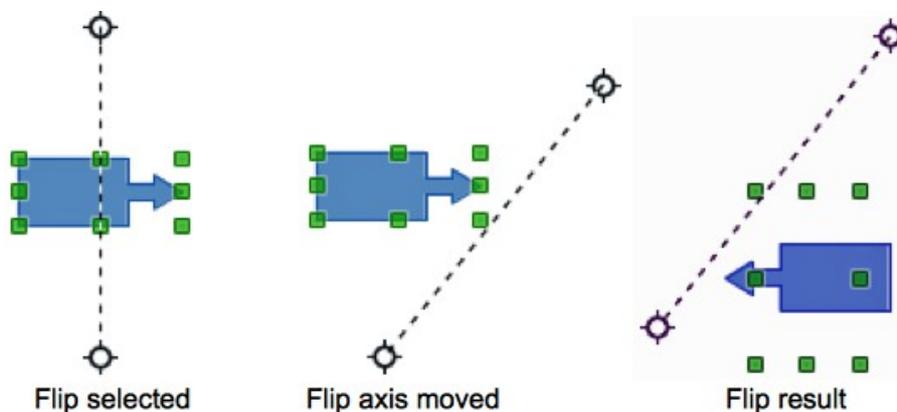


Figure 8: Using the Flip tool

## Note

If you press the *Shift* key while moving the axis of symmetry, it will rotate in 45-degree increments.

## Using the Sidebar

You can use the *Position and Size* subsection on the Sidebar to rotate a graphic object. After

selecting your graphic object, click on the **Properties** icon  on the Sidebar and then click on the plus (+) sign next to the title to open the *Position and Size* subsection (Figure 4).

In *Rotation*, click on the **Flip Vertical** icon  to flip the selected object vertically about its central axis or click on the **Flip Horizontal** icon  to flip the selected object horizontally about its central axis.

## Note

Clicking on the **More Options** icon on the *Sidebar Position and Size* subsection will open the Position and Size dialog.

## Mirror copies

Impress does not include a mirror command. However, mirroring an object can be emulated by flipping the object:

- 1) Select the object you want to make a mirror copy of and copy the object to the clipboard.
- 2) Flip the object using one of the methods in “Flipping objects” above, then move the flipped object to one side.
- 3) Click on an empty area of the page to deselect the object.
- 4) Paste from the clipboard to put a copy of the object into your slide.
- 5) Select both images, then right-click and select **Alignment** from the context menu.
- 6) Select the type of alignment you want to use. **Top**, **Center**, or **Bottom** if you are creating a horizontal mirror copy. **Left**, **Centered**, or **Right** if you are creating a vertical mirror copy.

## Distorting images

Three tools on the Mode toolbar (Figure 5 on page 16) let you drag the corners and edges of an object to distort the image. The **Distort** icon  distorts an object in perspective, the **Set to Circle (slant)** icon  and **Set in Circle (perspective)** icon  both create a pseudo three-dimensional effect. Note that when using these tools, you have to transform an object to a curve before distorting.

### Distort tool

- 1) Select an object and click on the **Distort** icon  on the Mode toolbar.
- 2) Click **Yes** to convert the object to a curve. If the object is already a curve, this dialog does not appear.
- 3) Click and drag a corner selection handle to distort the object using the opposite corner selection handle as an anchor point for the distortion (Figure 9).
- 4) Click and drag the vertical selection handles to distort the object using the opposite vertical side as an anchor point for the distortion.
- 5) Click and drag the horizontal selection handles to distort the object using the opposite horizontal side as an anchor point for the distortion.

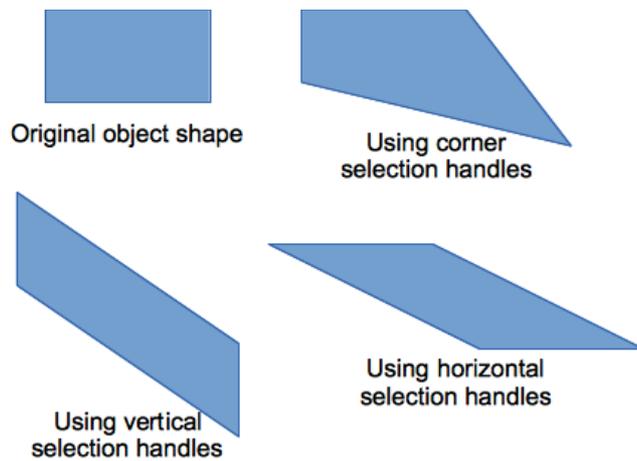


Figure 9: Distorting an object

### Set in circle (perspective) tool

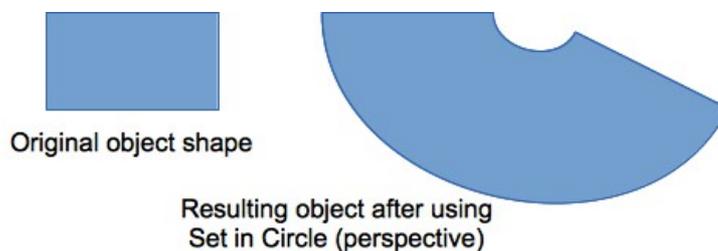


Figure 10: Setting an image to a circle with perspective

- 1) Select an object and click on the **Set in Circle (perspective)** icon  in the Mode toolbar.
- 2) Click **Yes** to convert the object to a curve. If the object is already a curve, this dialog does not appear.
- 3) Click and drag one of the selection handles to give a pseudo three-dimensional perspective using the opposite side as an anchor point (Figure 10). A ghosted image appears as you drag to give you an indication of the resulting object will look.

### Set to circle (slant) tool

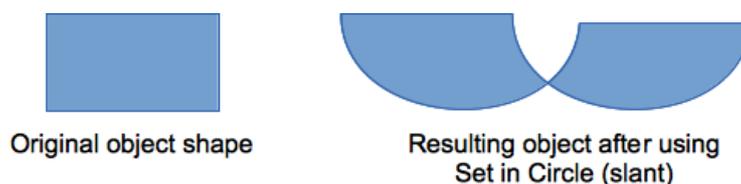


Figure 11: Setting an image to a circle with slant

- 1) Select an object and click on the **Set to Circle (slant)** icon  in the Mode toolbar.
- 2) Click **Yes** to convert the object to a curve. If the object is already a curve, this dialog does not appear.
- 3) Click and drag one of the selection handles to give a pseudo three-dimensional perspective using the opposite side as an anchor point (Figure 11). A ghosted image appears as you drag to give you an indication of the resulting object will look.

## Note

Transforming an object into a curve is a safe operation, but it cannot be reversed other than by using the **Undo** function.

## Aligning objects

Use the alignment tools to adjust the relative position of an object compared to another object. These alignment tools are only available if two or more objects are selected.

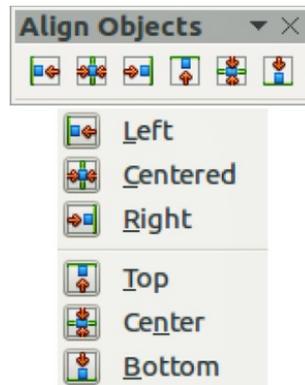


Figure 12: Align Objects toolbar

- 1) Select the objects you want to align.
- 2) Click on the triangle to the right of the **Alignment** icon  in the Line and Filling toolbar or go to **View > Toolbars > Align Objects** on the main menu bar to open the **Align Objects** toolbar (Figure 12). The **Alignment** icon shown on the Line and Filling toolbar will depend on the alignment option that had been previously selected.
- 3) Alternatively, right-click on the group of selected objects and select **Alignment**, then one of the alignment options from the context menu.

The alignment options are as follows:

- **Left, Centered, Right** – determines the horizontal alignment of the selected objects.
- **Top, Center, Bottom** – determines the vertical alignment of the selected objects.

## Snapping objects to grid or snap guides

Sometimes it is important to align objects to specific points of the page or to make sure that objects that appear on multiple slides are placed in exactly the same position. For this purpose Impress provides two mechanisms: **Grid** and **Snap Lines**.

### Using the grid

Options for the grid are available by right-clicking on an empty part of the page in Normal view and choosing **Grid** or by selecting **View > Grid** from the menu bar. The options available from the context menu that opens are:

- **Display Grid** – displays the grid.
- **Snap to Grid** – the anchor points of an object will be placed on a grid when the object is moved or resized.
- **Grid to Front** – displays the grid in the foreground.

To set up the grid spacing and snapping options, go to **Tools > Options > LibreOffice Impress > Grid** on the menu bar.

## Using snap lines

Options for the guides are available by right-clicking on an empty part of the page in Normal view and choosing **Snap Lines** or by selecting **View > Snap Lines** from the menu bar. The options available from the context menu that opens are:

- **Display Guides** – the guides are shown on the slide.
- **Snap to Snap Lines** – the anchor points of the objects snap to the guides when the object is moved or resized.
- **Snap Lines to Front** – displays the guides in the foreground.

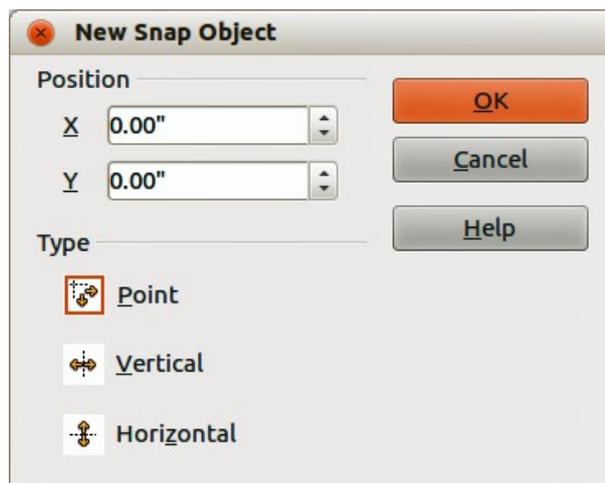


Figure 13: New Snap Object dialog

## Creating a new snap point/line

- 1) Right-click on an empty part of the work area and select **Insert Snap Point/Line** from the context menu to open the **New Snap Object** dialog (Figure 13).
- 2) Specify the type of snap object. Depending on the choice made determines which field becomes active:
  - **Point** both X and Y fields become active.
  - **Vertical** only X field becomes active.
  - **Horizontal** only Y field become active.
- 3) Enter the position of the snap point/line.
- 4) Click **OK** to close the dialog.

### Tip

When positioning the Snap Lines, it is useful to display the rulers. To do so, select **View > Rulers**. Drag a Snap Line directly onto the slide by clicking on the ruler and then dragging onto the slide.

## Editing snap points/lines

- 1) Right-click next to or on the guide to be edited.
- 2) Select **Edit Snap line** from the context menu.
- 3) Enter a new value in the X or Y field for the line position and click **OK**.

## Deleting guides

- 1) Right-click next or on the guide to be deleted.
- 2) Select **Delete Snap line** from the context menu.

## Arranging objects

---

Impress organizes objects in a stack so that the objects on the top level of the stack cover the objects on lower levels if any overlapping occurs. The stack level of each object can be changed by arranging shapes on a slide or page.

To change the stack level of an object, select an object or objects and then click the small triangle on the side of the **Arrange** icon  on the Line and Filling toolbar to open the **Position** toolbar (Figure 14). The **Arrange** icon shown on the Line and Filling toolbar will depend on the arrange option that had been previously selected.

Alternatively, right-click on your selected objects and select **Arrange**, then select an arrange option from the context menu.

The first four tools determine the stack level of a selected object:

- **Bring to front**: – the selected object is moved in front of all other objects.
- **Bring forward** – the selected object is moved one level up in the stack.
- **Send backwards** – the selected object is moved one level down in the stack.
- **Send to back** – the selected object is moved behind all other objects. The other three tools determine the relative positions of the selected objects:
- **In front of object** – moves the first selected object in front of the second selected object.
- **Behind object** – moves the first selected object behind the second selected object.
- **Reverse** – swaps the stacking order of two selected objects.

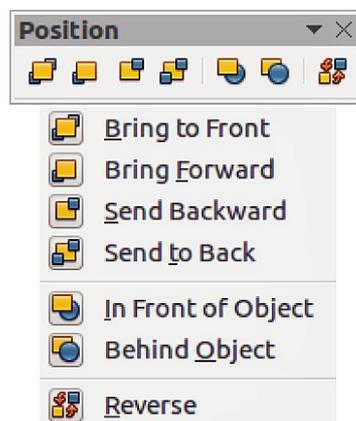


Figure 14: Position toolbar

To use the **In front of object** and **Behind object** tools:

- 1) Select the first object by clicking on it.
- 2) Select **In front of object** or **Behind object** from the context menu and the mouse cursor changes to a pointing hand.
- 3) Click on the second object and the objects swap positions.

## Working with connectors

Connectors are lines that can be anchored to *glue points* and by default are positioned on the border of an object. When an object with a connector attached is moved or resized, the connector automatically adjusts to the change. When creating a flowchart, organization chart, schematics, or diagrams, it is highly recommended to use connectors instead of simple lines.

When a connector is drawn or selected Impress displays selection handles which are not shown for normal lines. The termination points of a connector are square at the start of a connector and round at the end of a connector. The selection handles on a connector are used to modify the routing of a connector where applicable.

Impress offers a wide variety of predefined connectors, which differ in the termination shape (none, arrow, custom) and in the way the connector is drawn (straight, line, curved).

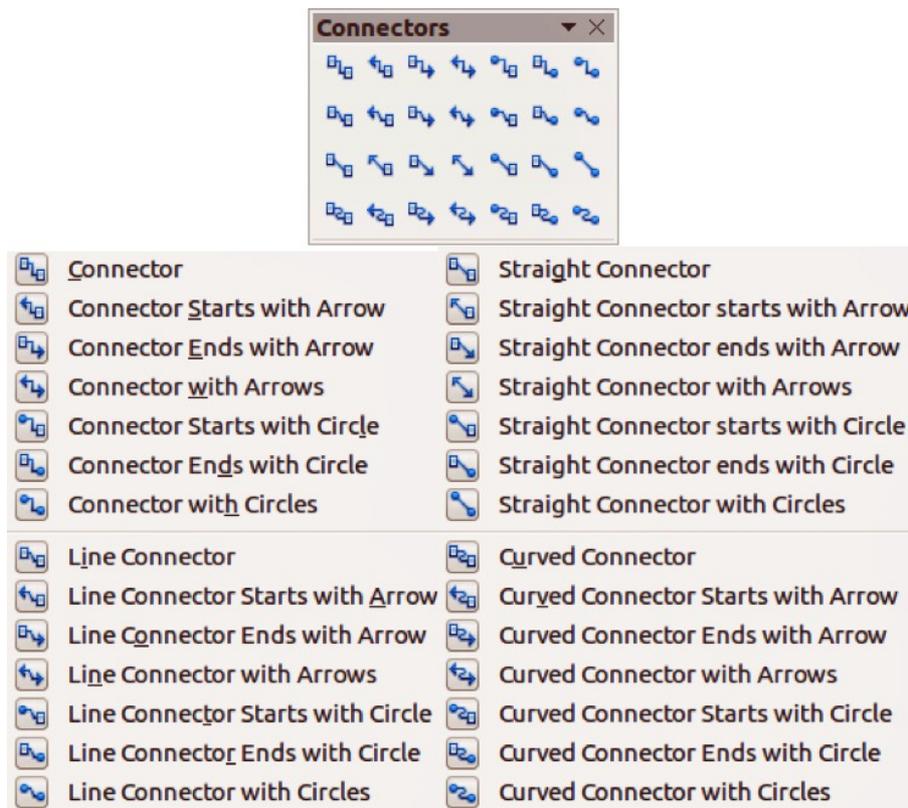


Figure 15: Connector toolbar

## Drawing connectors

A simple method of drawing is as follows. For more information on how to format a connector, refer to *Chapter 6 Formatting Graphic Objects*.

- 1) Click on the triangle next to the **Connector** icon  on the Drawing toolbar and select the type of connector you want to use. The **Connector** icon shown on the Drawing toolbar will depend on the connector that had been previously selected and used (Figure 15).
- 2) Move the mouse cursor over one of the objects to be connected and small crosses appear around the object edges which are the glue points to which a connector can be attached (Figure 16).
- 3) Click on the required glue point to attach one end of the connector, then hold the mouse button down and drag the connector to another object.

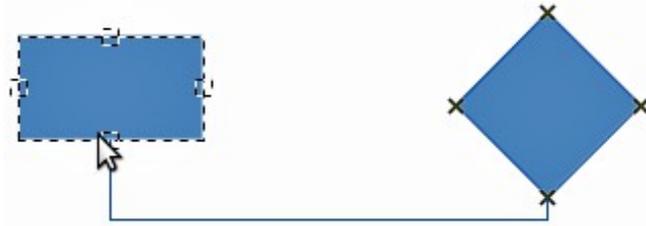


Figure 16: Example of using a connector

- 4) When the cursor is over the glue point of the target object release the mouse button and the connector is drawn.
- 5) The selection handles that appear on the connector are used to adjust the path of the connector so that the connector does not cover another object in its path.

## Managing glue points

A glue point is the attachment point for a connector on an object. Each object shape has a number of predefined glue points, but it is possible to define new ones, as well as edit them, using the Gluepoints toolbar.

- 1) Click on the **Gluepoints** icon  on the Drawing toolbar or go to **View > Toolbars > Gluepoints** on the main menu bar to open the toolbar (Figure 17).
- 2) Select an object on your slide.
- 3) To insert a new glue point onto the selected object, click on the **Insert Glue Point** icon.
- 4) If you want to fix the direction a connector uses when connecting to a glue point, click on one of the exit direction icons. This is useful if you have multiple connectors terminating on one side of an object or the position of the default glue point is not satisfactory.
- 5) Move the cursor to the position you require on the selected object, then click the mouse button to insert the glue point.
- 6) Make sure that the **Glue point relative** icon is selected to maintain the relative position of a glue point when resizing the object.

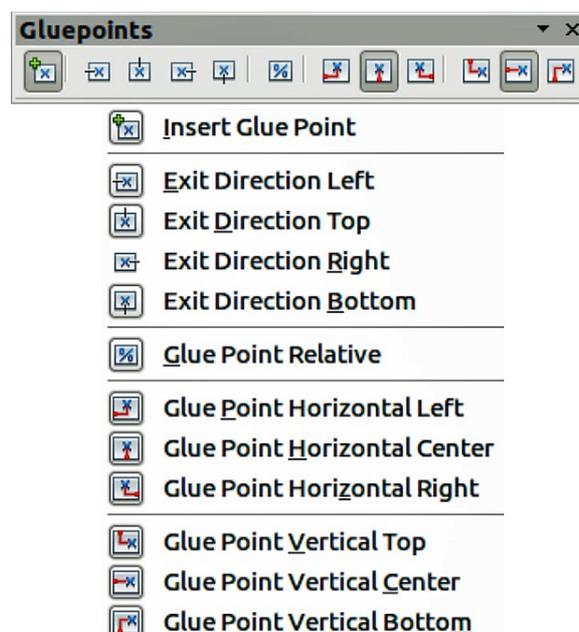


Figure 17: Gluepoints toolbar

- 7) Deselecting the **Glue point relative** icon activates the remaining six icons on the toolbar. Use these tools to fix the position of the glue point during the resizing of the object.
- 8) To delete a glue point you have inserted, select it with the cursor and press the *Delete* key. The default glue points on an object cannot be deleted.
- 9) To move a glue point you have inserted, select it with the cursor and drag the glue point to a new position. The default glue points on an object cannot be moved.

### Tip

Glue points are placed by default on the grid (see “Snapping objects to grid or snap guides” on page 21 for information). However it is sometimes necessary to fine tune the position of a glue point depending on the shape of the object. To do this, press the *Ctrl* key to display guide lines and keep the *Ctrl* key pressed while dragging the glue point to the new position.

## Working with 3D objects

Although Impress offers advanced functions to manipulate 3D objects, this guide describes only the 3D settings applicable to an object. For additional information on how to use advanced 3D effects such as geometry and shading, refer to the *Draw Guide*.

3D objects can be created in Impress in any of the following ways:

- Click on the triangle to the right of the **3D Objects** icon  on the Drawing toolbar and select a 3D object from the options. After selection, draw your 3D object on your slide as you would with any object. The **3D Objects** icon shown on the Drawing toolbar will depend on the 3D object that had been previously selected and used.
- Go to **View > Toolbars > 3D-Objects** on the main menu bar to open the 3D-Objects toolbar (Figure 18). The selection and drawing of 3D objects is the same as clicking on the **3D Objects** icon on the Drawing toolbar.
- Right-click on an object already on your slide and select **Convert > To 3D** or **To 3D Rotation Object** from the context menu. **To 3D** adds thickness to the object to create a 3D object. **To 3D Rotation Object** creates a 3D object by rotating the object around an axis.



Figure 18: 3D-Objects toolbar

- Select an object and click on the **Extrusion on/off** icon  on the Drawing toolbar to apply a basic 3D effect and open the 3D-Settings toolbar. Select one of the options on the 3D-Settings toolbar to apply a different 3D effect (Figure 19 and Table 3).



Figure 19: 3D-Settings toolbar

Table 3: 3D-Settings tools and their purpose

Tool	Name	Purpose
	Extrusion On/Off	Adds thickness to an object and activates the 3D properties.
	Tilt Down	Tilts the object downwards around a horizontal axis.
	Tilt Up	Tilts the object up around a horizontal axis.
	Tilt Left	Tilts the object left around a vertical axis.
	Tilt Right	Tilts the object right around a vertical axis.
	Depth	Determines the thickness of the shape. An extended toolbar opens where some default values are given. If none of the values are satisfactory, select <b>Custom</b> and then enter the desired thickness.
	Direction	Opens an extended toolbar that lets you pick the direction of the perspective as well as the type (parallel or perspective).
	Lighting	Opens an extended toolbar that lets you specify the direction and intensity of light.
	Surface	Choose between Wire frame (useful when manipulating the object), Matt, Plastic, or Metal.
	3D Color	Selects the color of the object thickness.

**Note**

Most of the Fontwork shapes (see “Using Fontwork” on page 29) have 3D properties and can be manipulated with the 3D-Settings toolbar.

## Converting objects to different types

You can convert an object into a different type. Right-click on the object and select **Convert** from the context menu to display the following options:

- **To Curve** – converts the selected object to a Bézier curve. Click on the **Points** icon  on the Drawing toolbar to edit the points after conversion to a Bézier curve.
- **To Polygon** – converts the selected object to a polygon. Click on the **Points** icon  to edit the object after conversion to a polygon. A polygon always consists of straight segments.
- **To Contour** – for basic shapes, this is equivalent to converting to polygon. For more complex shapes (or for text objects) this conversion creates a group of polygons that you can then manipulate by pressing *F3* to enter the group.
- **To 3D** – converts the selected object to a 3D object.

- **To 3D Rotation Object** – creates a three-dimensional shape by rotating the selected object around its vertical axis.
- **To Bitmap** – converts the selected object to a bitmap.
- **To Metafile** – converts the selected object to Windows Metafile Format (WMF), containing both bitmap and vector graphic data.

**Note**

In most cases the conversion to a different type does not produce immediately visible results.

**Tip**

**To Curve, To Polygon, To 3D, and To 3D Rotation Object** can be added to the Drawing toolbar as additional tools by right-clicking in an empty area on the toolbar and selecting **Visible Buttons**.

## Setting up interaction with an object

You can associate an object to an action that is performed when it is clicked and this is called an interaction:

- 1) Select the object for which an interaction will be created.
- 2) Click on the **Interaction** icon  on the Line and Filling toolbar or right-click on the object and select **Interaction** from the context menu to open the **Interaction** dialog (Figure 20).
- 3) Select the interaction type and the parameters (if applicable). The interactions are explained in Table 4 and the Interaction dialog changes depending on the type of interaction selected.
- 4) Click **OK** to close the dialog.
- 5) To remove an interaction from a graphic object follow Steps 1 to 2 and then select **No action** as the interaction type at Step 3.

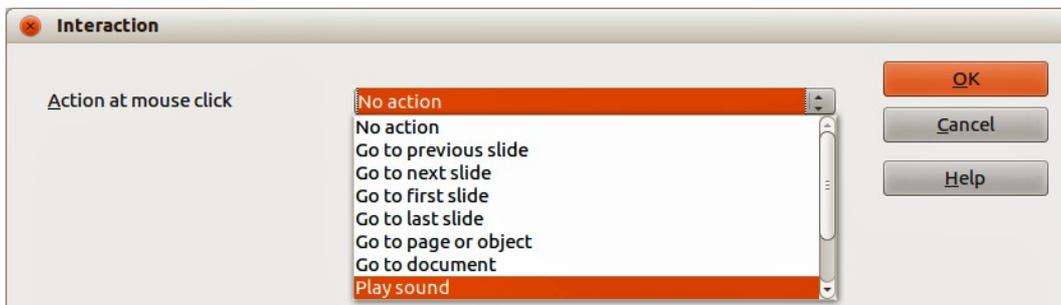


Figure 20: Interaction dialog

Table 4: Interaction types and their parameters

<b>Interaction</b>	<b>Parameters</b>
Go to previous slide	No parameters.
Go to next slide	No parameters.
Go to first slide	No parameters.
Go to last slide	No parameters.
Go to page or object	Specify the target from the list in the Target box. You can search for a specific target in the Slide/Object box at the bottom of the screen.

<b>Interaction</b>	<b>Parameters</b>
Go to document	Select the document in the Document box. Use the Browse button to open a File Open dialog. If the document to be opened is in Open Document Presentation format, the target list will be populated allowing selection of the specific target.
Play sound	Select the file containing the sound to be played. Use the Browse button to open a File Open dialog.
Run program	Select the program to execute. Use the Browse button to open a File Open dialog.
Run macro	Select a macro that will run during the presentation. Use the Browse button to open the Macro Selector dialog.
Exit presentation	When the mouse is clicked over the object, the presentation will terminate.

## Using Fontwork

Use Fontwork to obtain special text effects. For more about this topic, see the *Getting Started Guide Chapter 11 Graphics, the Gallery, and Fontwork*.

To start using Fontwork:

- 1) Click on the **Fontwork Gallery** icon  on the Drawing toolbar or on the Fontwork toolbar to open the Fontwork Gallery dialog (Figure 21).

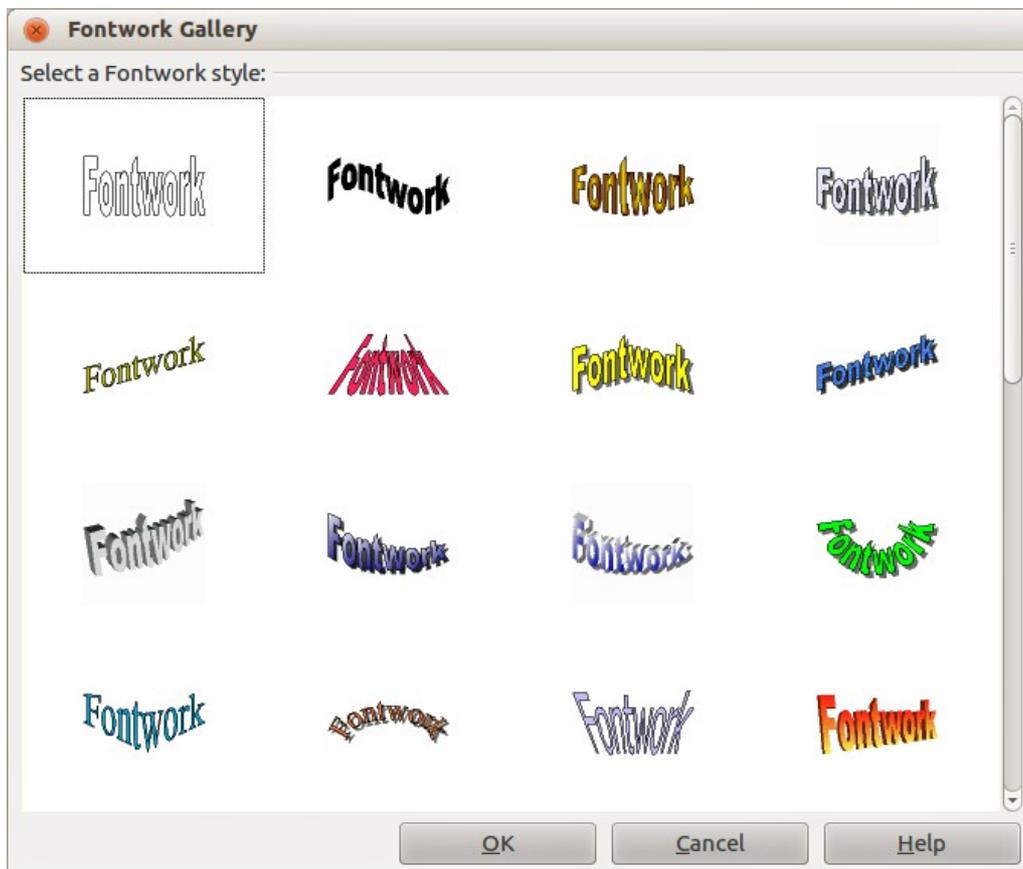


Figure 21: Fontwork Gallery

- 2) Select the preferred style from the Fontwork Gallery dialog and click **OK**. The text *Fontwork* in the selected style appears on the slide. You can modify its shape and properties after it has been placed on the slide.
- 3) Double-click the object to edit the Fontwork text. Type your own text to replace the word *Fontwork* that appears over the object.
- 4) Press the *Esc* key or click outside the area with the selection handles to exit.

## Using the Fontwork toolbar

Make sure that the Fontwork toolbar (Figure 22) is visible on the workspace. If not, select **View > Toolbars > Fontwork** from the main menu bar.



Figure 22: Fontwork toolbar

In addition to the Fontwork Gallery icon, this toolbar contains the following tools:

- **Fontwork Shape**  – changes the shape of the selected object. Shapes are selected from the options that become available when you click on the icon.
- **Fontwork Same Letter Heights**  – changes the height of characters in the selected object. Toggles between normal height where characters have different heights to where all characters are the same height.
- **Fontwork Alignment:**  – specifies the text alignment within the frame from the options available.
- **Fontwork Character Spacing**  – selects the desired spacing between characters and whether kerning pairs should be used. For custom spacing, input a percentage value: 100% is normal spacing; less than 100% is tight spacing; more than 100% is expanded spacing.

## Modifying Fontwork as an object

It is possible to treat Fontwork text as an object and therefore to apply to it all the formatting that has been described in this chapter. Assign line properties only to Fontwork which does not have a 3D effect, otherwise the changes will not be visible.

You can modify some of the Fontwork shapes just as you modify the angles of trapezoid and parallelogram basic shapes by moving the dot that is displayed along with the selection handles.

## Animations

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Animated slide transitions can be added between slides to give your presentation a more professional look when you change to the next slide (see *Chapter 9 Slide Shows* for more information on transitions). However, Impress also allows you to add animations onto the slides to create more interest in your presentation.

An animation consists of a sequence of images or objects called frames that are displayed in succession when the animation runs. Each frame may contain one or more objects. For example, make bullet points appear one by one; make pictures, shapes or other objects appear singly or as a group onto a slide. Animations can be controlled using the keyboard or mouse click or automatically in a timed sequence.

## Tip

Animations can look great in a presentation, but overuse of animations can make a good presentation into a poor presentation. Always use discretion when adding animations to your presentation.

## Custom Animation

The *Custom Animation* section (Figure 23) is located in the Sidebar to the right of the Workspace in Impress. It is used to add an animation effect to an object on a slide, or change the animation effect of an object. To open the *Custom Animation* section, click on the **Custom Animation**  icon on the Sidebar, or right-click on a selected object and select **Custom Animation** on the context menu, go to **Slide Show > Custom Animation** on the main menu bar.

## Note

Anything that can be placed onto a slide is an object. For example, an object can include an image, clip art drawing, text, and so on.

## Custom animation options

The available options on the Custom Animation section on the Sidebar allows you to control how the animation is animated on your slide.

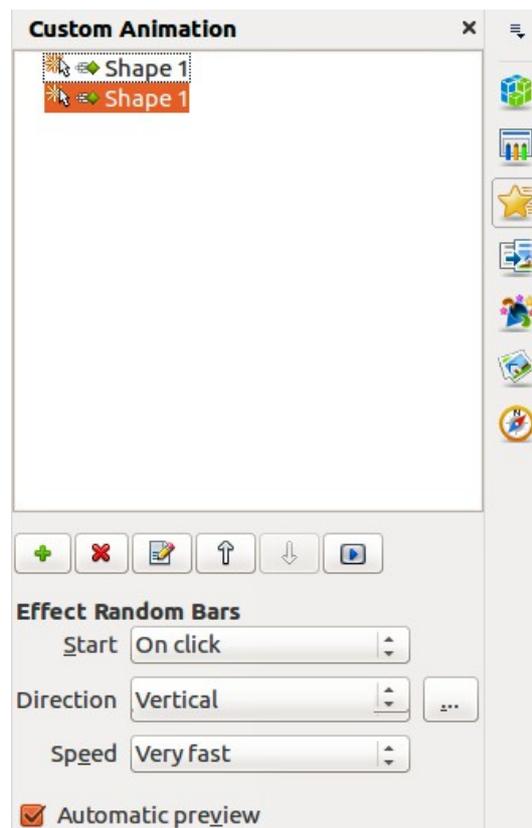


Figure 23: Sidebar Custom Animation

- **Add Effect**  – click on this icon to open the Custom Animation dialog (Figure 24) and add an animation effect to an object on a slide.
- **Remove Effect**  – click on this icon to remove any selected animation effects from an object.

- **Modify Effect**  – click on this icon to open the Custom Animation dialog (Figure 24) and modify an animation effect applied to an object on a slide.
- **Move Up**  – click on this icon to move the selected animation effect up the order of animation effects that have been applied to an object.
- **Move Down**  – click on this icon to move the selected animation effect down the order of animation effects that have been applied to an object.
- **Preview Effect**  – click on this icon to preview the selected animation effect applied to an object.
- **Start** – select from the drop-down list how an animation effect starts when running an animation:
  - *On click* – the animation stops at this effect until the next mouse click.
  - *With previous* – the animation runs immediately.
  - *After previous* – the animation runs as soon as the previous animation ends.
- **Direction** – select from the drop-down list how an animation effect appears on the slide.
- **Speed** – select the speed or duration of the selected animation effect.
- **Automatic preview** – select this option to automatically preview an animation effect as it is selected in the Custom Animation dialog (Figure 24).
- **Effect Options**  – click this icon to open the Effect Options dialog (Figure 25) where you can select, adjust and apply options to the animation effect and timing.

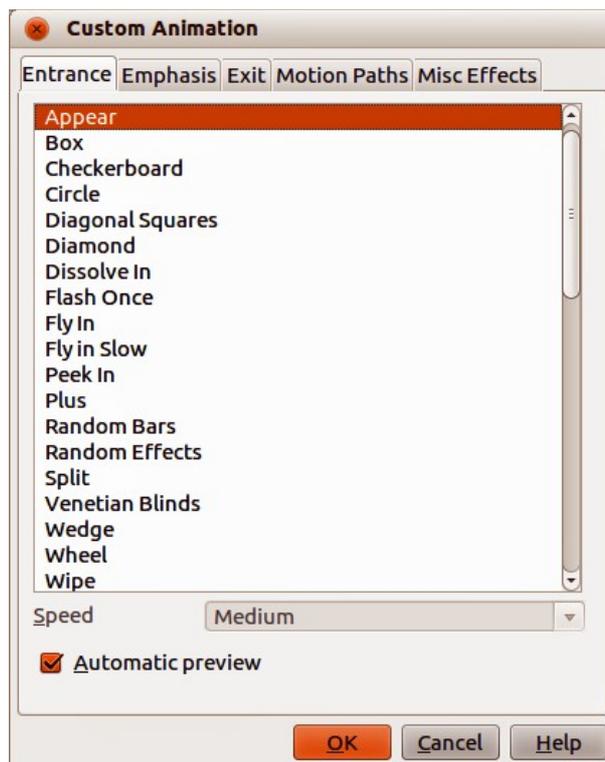


Figure 24: Custom Animation dialog

## Custom Animation dialog

The Custom Animation dialog (Figure 24) contains the following tabbed pages for creating animation effects on a selected object:

- **Entrance** – how an animated object appears on the slide.
- **Emphasis** – how an animated object is emphasized when it appears on the slide.
- **Exit** – how an animated object leaves the slide.
- **Motion Paths** – how an object moves on the slide during animation.
- **Misc Effects** – selects media effects from the miscellaneous effects.
- **Automatic preview** – previews any new or edited animation effects on the slide.

## Effect Options dialog

The Effect Options dialog (Figure 25) specifies the settings and enhancements on how an animation effect appears on your slide.

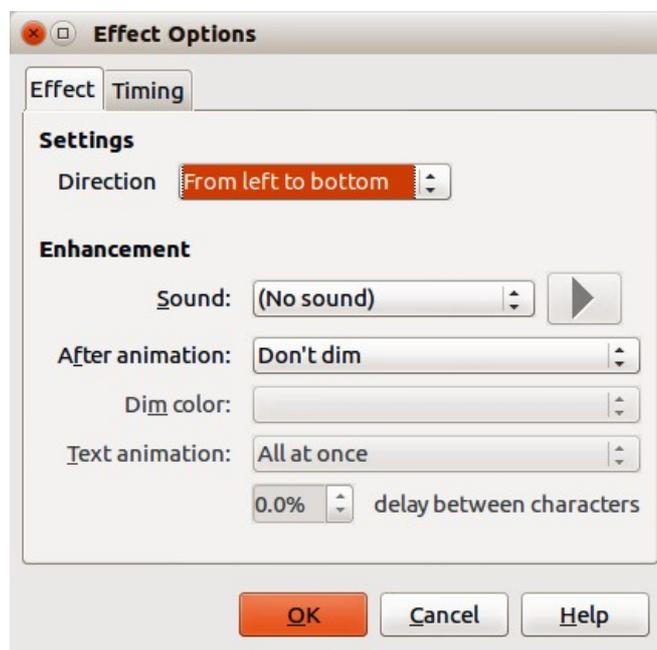


Figure 25: Effect Options dialog

The **Effect** page contains the following options:

- **Direction** – specifies the direction for the effect and is the same option that is displayed in the *Custom Animation* section on the Sidebar.
- **Sound** – select a sound from the drop-down list when the animation effect is run.
- **After animation** – select from the drop-down list what happens after an animation effect ends.
  - *Dim with color* – after the animation a dim color fills the shape.
  - *Don't dim* – no after-effect runs.
  - *Hide after animation* – hides the shape after the animation ends.
  - *Hide on next animation* – hides the shape on the next animation.
- **Dim color** – select a dim color.
- **Text animation** – select the animation mode for the text of the current shape:
  - *All at once* – animates the text all at once.

- *Word by word* – animates the text word by word.
- *Letter by letter* – animates the text letter by letter.
- **Delay between characters** – specifies the percentage of delay between animations of words or letters.

The **Timing** page contains the following options:

- **Start** – displays the start property of the selected animation effect. The following start properties are available:
  - *On click* – the animation stops at this effect until the next mouse click.
  - *With previous* – the animation runs immediately.
  - *After previous* – the animation runs as soon as the previous animation ends.
- **Delay** – specifies an additional delay in seconds until the effect starts.
- **Speed** – specifies the duration of the effect.
- **Repeat** – specifies whether and how to repeat the current effect. Enter the number of repeats, or select from the list:
  - *none* – the effect is not repeated.
  - *Until next click* – the animation is repeated until the next mouse click.
  - *Until end of slide* – the animation repeats as long as the slide is displayed.
- **Rewind when done playing** – specifies whether to let the animated shape return to its starting state after the animation ends.
- **Animate as part of click sequence** – specifies whether to let the animation start in the normal click sequence.
- **Start effect on click of** – specifies whether to let the animation start when a specified shape is clicked. Select the shape by its name from the drop-down list.

### Creating an animation

To create an animated object or objects using *Custom Animation*:

- 1) Select an object on a slide.
- 2) Open the *Custom Animation* section (Figure 23) in the Sidebar, or go to **Slide Show > Custom Animation** on the main menu bar.
- 3) Click on **Add** in *Custom Animation* to open the Custom Animation dialog (Figure 24).
- 4) Select an effect category and the type of effect you want to apply to the selected object.
- 5) Select how the effect starts, the direction, and the speed (if available) of the effect from the various options included on the drop-down lists.
- 6) Click **Effect Options** icon  to open the Effect Options dialog (Figure 25) to set the effect options for the animation, then click **OK** to close the dialog.
- 7) If necessary, change the appearance order of the objects in the animation using the **Move Up**  and **Move Down**  icons.
- 8) Click **Preview Effect**  icon to check the animation effect.
- 9) When you are satisfied, run the slide show to check your presentation.

## Inserting animated images

You can create an animated image and then insert it into your presentation by going to **Insert > Animated Image** on the main menu bar to open the Animation dialog (Figure 26). The animation controls are explained in Table 5.

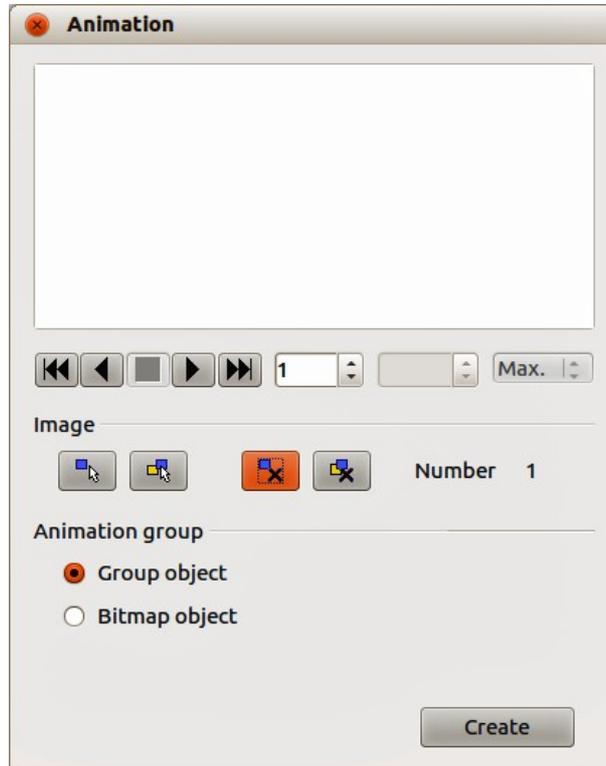


Figure 26: Animation dialog

Table 5: Animation dialog controls

Control	Control Name	Purpose
	First image	Jumps to the first image in the animation sequence.
	Backwards	Plays the animation backwards.
	Stop	Stops playing the animation.
	Play	Plays the animation.
	Last image	Jumps to the last image in the animation sequence.
	Image number	Indicates the position of the current image in the animation sequence. If you want to view another image, enter its number or click the up and down arrows.
	Duration	Enter the number of seconds to display the current image. This option is only available if you select <i>Bitmap object</i> in <b>Animation group</b> .
	Loop count	Sets the number of times that animation will play. If you want the animation to play continuously, select <b>Max</b> . This option is only available if you select <i>Bitmap object</i> in <b>Animation group</b> .
	Apply Object	Adds selected object or objects as a single image.

<b>Control</b>	<b>Control Name</b>	<b>Purpose</b>
	Apply Objects Individually	Adds an image for each selected object. If you select a grouped object, an image is created for each object in the group.  You can also select an animation, such as an animated GIF, and click this icon to open it for editing. When you are finished editing the animation, click <b>Create</b> to insert a new animation into your slide.
	Delete Current Image	Deletes the current image from the animation sequence.
	Delete All Images	Deletes all images in the animation.
	<i>Number</i>	Total number of images in the animation.
	<i>Group object</i>	Assembles images into a single object so that they can be moved as a group. You can still edit individual objects by double-clicking the group in the slide.
	<i>Bitmap object</i>	Combines images into a single image.
	<b>Create</b>	Inserts the animation into the current slide.

### Creating an animation

To create an animation using **Insert > Animated Image** on the menu bar:

- 1) Create the object you intend to animate, using the drawing tools.
- 2) Go to **Insert > Animated Image** on the menu bar to open the Animation dialog (Figure 26 and Table 5).
- 3) Select the object and click on **Apply Object** icon to add it as the first frame of the animation.
- 4) Apply a transformation or change to the object; for example, rotation, change color, add or remove characters, and so on.
- 5) When you are ready, create the second frame of the animation and click **Apply Object** again to add another frame to the animation.
- 6) Repeat steps 3, 4, and 5 until you have created all the desired frames of the animation.
- 7) Select *Bitmap object* in **Animation group** to customize the timing of each of the frames and the number of repetitions for the animation.
- 8) Set the duration of each frame in the animation in *Duration* and the number of repetitions in *Max* to create a loop for your animation. Selecting *Max* creates a continuous loop.
- 9) Click **Create** and the animated image is placed in the center on your slide.
- 10) Adjust the position of your animated object on your slide.

#### Note

If the image to be copied consists of several objects, you can choose to treat each object as a separate frame. In this case, click on **Apply objects individually** icon. Remember that each object will be centered in the animation.