

Impress Guide

Chapter 6
***Inserting Spreadsheets,
Charts, and Other Objects***

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Contents

Copyright.....	i
Authors.....	i
Feedback.....	i
Acknowledgments.....	i
Publication date and software version.....	i
Using spreadsheets in Impress.....	1
Inserting a spreadsheet.....	1
Resizing and moving a spreadsheet.....	3
Moving around the spreadsheet and entering data.....	4
How a spreadsheet is organized.....	4
Moving the cursor to a cell.....	4
Entering data in the selected cell.....	4
Formatting spreadsheet cells.....	5
Inserting a chart.....	7
Creating a chart in AutoLayout.....	7
Creating a chart using the Insert chart feature.....	8
Choosing a chart type.....	8
Entering chart data.....	9
Opening a chart data window.....	9
Entering data.....	9
Formatting the chart.....	10
Format menu.....	10
Resizing the chart.....	11
Moving chart elements.....	11
Changing the chart area background.....	12
Changing the chart graphic background.....	12
Inserting other objects.....	13
Movies and sound.....	13
OLE Objects.....	15
Other OLE objects.....	16

Formulas.....17

Inserting a file.....17

Using spreadsheets in Impress

A spreadsheet embedded in Impress includes most of the functionality of a spreadsheet in Calc and is therefore capable of performing extremely complex calculations and data analysis. However, in most cases people limit the use of spreadsheets in Impress to creating complex tables or presenting data in a tabular format. If you need to analyse your data or apply formulas, these operations are best performed in a Calc spreadsheet and the results displayed in an embedded Impress spreadsheet.

Inserting a spreadsheet

To add a spreadsheet to a slide, select the corresponding layout in the list of predefined layouts in the Tasks pane, as shown in Figure 1. This inserts a placeholder for a spreadsheet in the center of a slide, as shown in Figure 2. To insert data and modify the formatting of the spreadsheet, it is necessary to *activate* it and enter the edit mode. To do so, double-click inside the frame with the green handles.

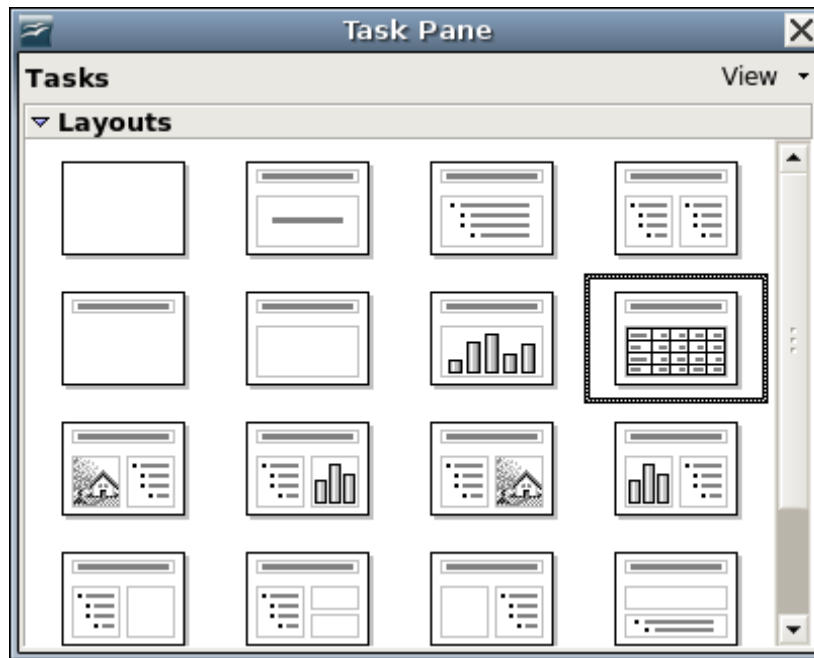


Figure 1: The spreadsheet layout in the task pane

Alternatively, select **Insert > Spreadsheet** from the main menu bar. This opens a small spreadsheet in the middle of the slide. When a spreadsheet is inserted using this method, it is already in edit mode.

It is also possible to insert a spreadsheet as an OLE object as described in “Inserting other objects” on page 13.



Figure 2: A slide ready to host a spreadsheet

When editing a spreadsheet, the main menu bar and the Formatting toolbar change (see Figure 3) showing entries and tools that make working with the spreadsheet easier.

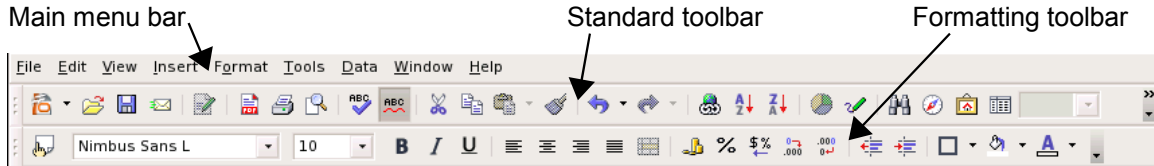


Figure 3: The menu bar and the formatting toolbar in spreadsheet editing mode

One of the most important changes is the presence just under the Formatting toolbar of the Formula toolbar, shown in Figure 4. The Formula toolbar contains (from left to right):

- The active cell reference or the name of the selected range
- The formula wizard button
- The sum and the formula button *or* the cancel and accept button (depending on the contents of the cell)
- A long edit box to enter or review the contents of a cell

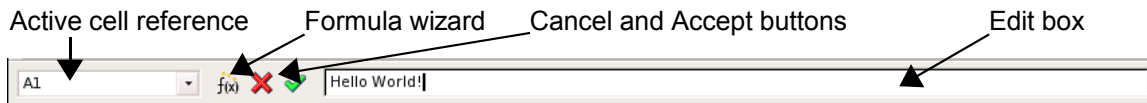


Figure 4: The formula toolbar showing the Cancel and Accept buttons

If you are familiar with Calc, you will immediately recognize the tools and the menu items since they are much the same.

Resizing and moving a spreadsheet

To resize the area occupied by the spreadsheet or change its position, enter the edit mode and use the black handles found in the gray border surrounding the spreadsheet (see Figure 5).

Move the mouse over the handles to resize the spreadsheet area. The corner handles resize the two sides forming the corner simultaneously, while the handles in the middle of the sides modify one dimension at a time. When moved over each handle, the cursor changes shape to give a visual representation of the effects applied to the area.

When resizing or moving a spreadsheet, ignore the first row and the first column (easily recognizable because of their light gray background) and the horizontal and vertical scroll bars). They are only used for editing purposes and will not be included in the visible area of the spreadsheet on the slide.

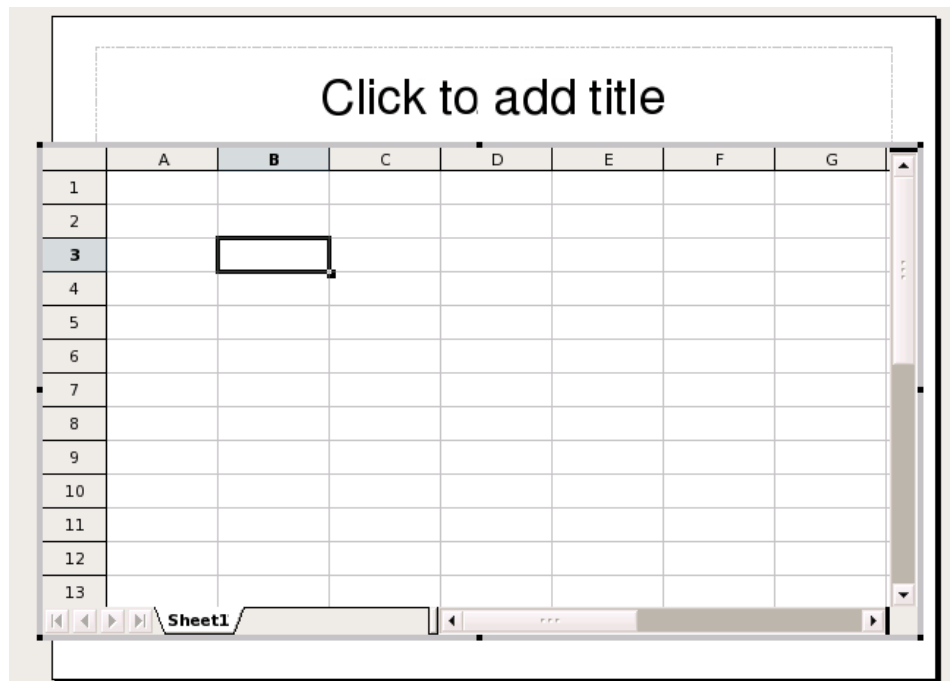


Figure 5: A spreadsheet in edit mode. Note the active cell and the resizing black handles on the gray border

The position of the spreadsheet within the slide can be changed both when in edit mode and when not in edit mode. In both cases:

- 1) Move the mouse over the border until the cursor changes shape (typically a four-headed arrow).
- 2) Click the left mouse button and drag the spreadsheet to the desired position.
- 3) Release the mouse button.

When not in edit mode (green handles), the spreadsheet object is treated like any other object, therefore resizing it results in changing the scale rather than the spreadsheet area. This is not recommended as it may produce distortion of the fonts and picture shapes.

Moving around the spreadsheet and entering data

How a spreadsheet is organized

A spreadsheet consists normally of multiple tables which in turn contain cells. However, in Impress only one of these tables can be shown at any given time on a slide.

The default for a spreadsheet embedded in Impress is one single table called “Sheet 1”. The name of the table is shown at the bottom of the spreadsheet area (see Figure 5).

If required, it is possible to add other sheets. To do that:

- 1) Right-click on the bottom area.
- 2) Select **Insert > Sheet** from the pop-up menu.

Just like in Calc, it is possible to rename a sheet or move it to a different position using the same pop-up menu or the **Insert** menu in the main menu bar.

Note Even if you have many sheets in your embedded spreadsheet, only the sheet which is active when leaving the spreadsheet edit mode will be shown on the slide.

Each of the sheets is further organized in *cells*. Cells are the elementary unit of the spreadsheet. They are identified by a row number (shown on the left hand side on gray background) and a column letter (shown in the upper part again on gray background). For example, the top left cell is identified as A1, while the third cell on the second row is C2. All data, whether text or numbers, is input in a cell.

Moving the cursor to a cell

To move around the spreadsheet and select the cell which has the focus, you can:

- Use the arrow keys.
- Left-click with the mouse on the desired cell.
- Use the combinations *Enter* and *Shift+Enter* to move one cell down or one cell up respectively; *Tab* key and *Shift+Tab* key to move one cell to the right or to the left respectively.

Other keyboard shortcuts are available to move quickly to certain cells of the spreadsheet. Refer to Chapter 7 (Getting Started with Calc) in the *Getting Started* book for further information.

Entering data in the selected cell

Keyboard input is received by the *active* cell, identified by a thick black border (see Figure 5 where cell B3 is active). The cell reference (or “coordinates”) is also shown on the left hand end of the formula bar.

To insert data, first select the cell to make it active, then type in it. Note that the input is also added to the main part of the formula bar where it may be easier to read.

Impress will try to automatically recognize the type of contents (text, number, date, time and so on) of a cell and apply default formatting to it. Note how the formula bar icons change according to the type of input, displaying an accept and a reject button (✗ ✓) whenever the input is not a formula. Use the green Accept button to accept the input made in a cell or simply select a different cell. In case Impress wrongly recognized the type of input, it is possible to change it using the toolbar shown in Figure 3, or from the **Format > Cells** in the main menu bar.

Tip Sometimes it is useful to treat numbers as text (for example, telephone numbers) and to prevent Impress from removing the leading zeros or right align them in a cell. To force Impress to treat the input as text, type a single apostrophe ' (U + 00B4) before entering the number.

Formatting spreadsheet cells

Normally, for the purpose of a presentation it may be necessary to increase considerably the size of the font as well as matching it to the style used in the presentation.

The fastest and most flexible way to format the embedded spreadsheet is to make use of styles. When working on an embedded spreadsheet it is possible to access the cell styles created in Calc and use them. It is however recommended to create specific cell styles for presentation spreadsheets, as the Calc cell styles are likely to be unsuitable when working within Impress.

To apply a style (or indeed manual formatting of the cell attributes) to a cell or group of cells simultaneously, first select the *range* to which the changes will apply. A range consists of one or more cells, normally forming a rectangular area. A selected range consisting of more than one cell can be easily recognized because all its cells except the active one have a black background. To select a multiple cells range:

- 1) Click on the first cell belonging to the range (either the left top cell or the right bottom cell of the rectangular area).
- 2) Keep the left mouse button pressed and move the mouse to the opposite corner of the rectangular area which will form the selected range.
- 3) Release the mouse button.

To add further cells to the selection press the *Control* key and repeat the steps 1 to 3 above.

Tip You can also click on the first cell in the range, hold down the *Shift* key, and click in the cell in the opposite corner. Refer to Chapter 7 (Getting Started with Calc) in the *Getting Started* book for further information on selecting ranges of cells.

Some shortcuts are very useful to speed up the selection:

- To select the whole visible sheet, click at the intersection between the rows indexes and the column indexes, or press *Control+A*.
- To select a column, click on the column index at the top of the spreadsheet.
- To select a row, click on the row index on the left hand side of the spreadsheet.

Once the range is selected, you can modify the formatting such as font size, alignment (including vertical alignment), font color, number formats, borders, background and so on. To access these settings, select **Format > Cells** from the main menu bar. This command opens the dialog shown in Figure 6.

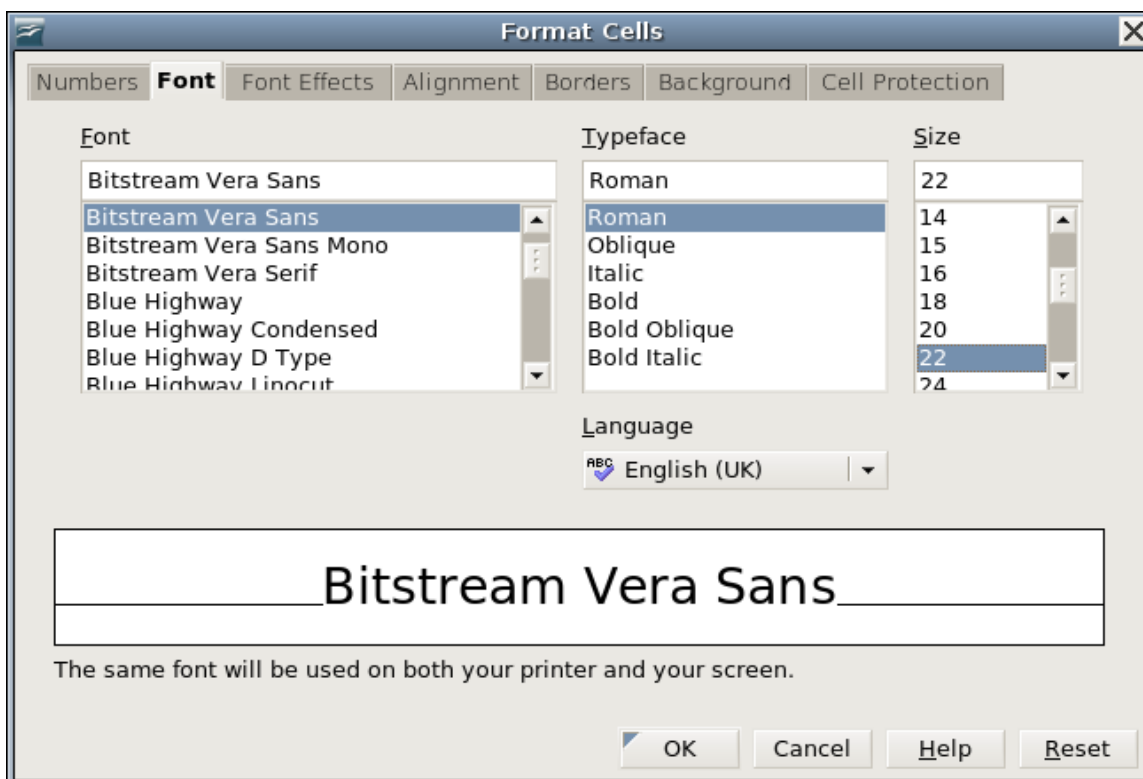


Figure 6: The Format Cells dialog consists of 7 pages

If the text does not fit the width of the cell, increase these values by hovering the mouse over the line separating two columns and, when the mouse cursor changes shape, clicking the left button and dragging the separating line to the new position. A similar procedure can be used to modify the height of a cell (or group of cells).

To insert rows and columns in a spreadsheet, use the **Format** menu or right-click on the row and column headers and select the appropriate option from the pop-up menu. To merge multiple cells, select the cells to be merged and select **Format > Merge cells** from the main menu bar. To de-merge a group of cells, select the group and again **Format > Merge Cells** (which will now have a checkmark next to it).

When you are satisfied with the formatting and the appearance of the table, exit the edit mode by clicking outside the spreadsheet area. Note that Impress will display exactly the section of the spreadsheet which was on the screen before leaving the edit mode. This allows you to hide additional data from the view, but it may cause the apparent loss of rows and columns. Therefore, take care that the desired part of the spreadsheet is showing on the screen before leaving the edit mode.

Inserting a chart

To add a chart to a slide, select the corresponding layout in the list of predefined layouts in the task pane or use the **Insert Chart** feature.

Creating a chart in AutoLayout

- 1) In the Tasks pane, choose a layout that contains a chart (look for the vertical bars). See Figure 7.

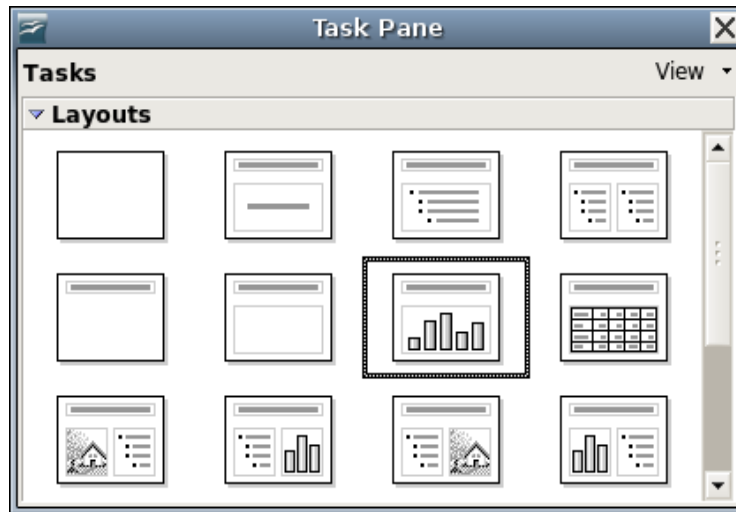


Figure 7: Examples of AutoLayout templates with charts

- 2) Double-click the chart icon in the center of the chart area. A full-sized chart appears that has been created using sample data. See Figure 8.
- 3) To enter your own data in the chart, see “Entering chart data” on page 9.

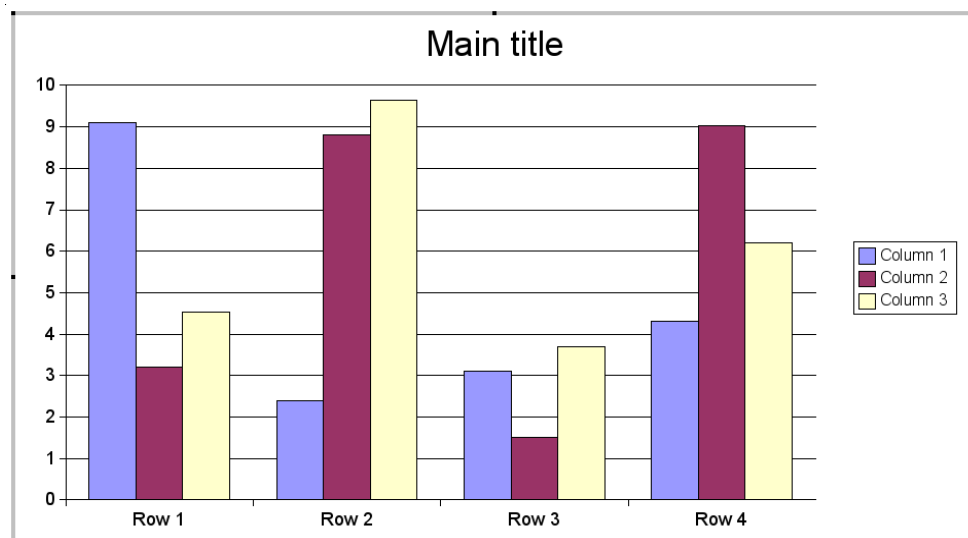




Figure 8: Chart made with sample data

Creating a chart using the Insert chart feature

- 1) Select **Insert > Chart**, or click the **Insert Chart** icon  on the Standard toolbar. A chart appears that has been created using sample data. See Figure 8.
- 2) To enter your own data in the chart, see the “Entering chart data” on page 9.

Choosing a chart type

- 1) Double-click the chart. It should now have a gray border. The main toolbar has now changed to show tools specifically for charts. (If the main toolbar is not showing, select **View > Toolbars > Main Toolbar**.)
- 2) Click the **Chart Type** icon  or select **Format > Chart Type**. The **Chart Type** dialog appears. See Figure 9.

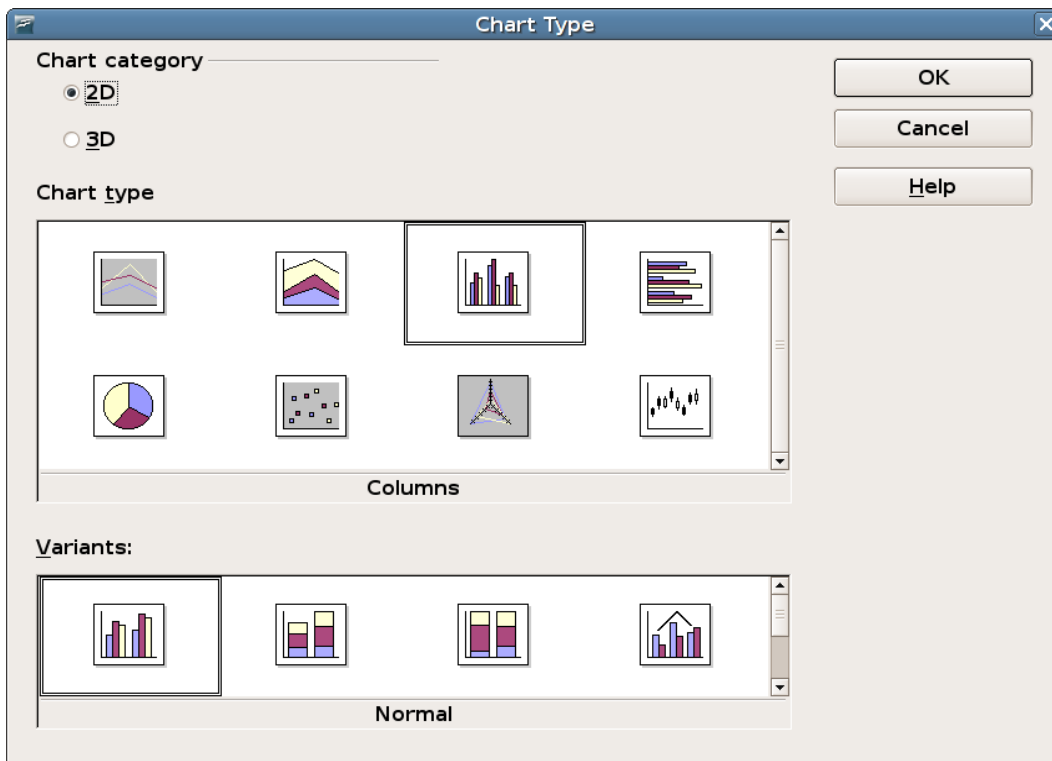



Figure 9: Chart Type dialog showing 2-dimensional charts

- 3) In the section **Chart category**, select either **2D** or **3D** to see the different types of charts.
- 4) In the section **Chart type**, click one of the icons to select it and see the different variants of the selected chart type in the **Variants** section.
- 5) Choose a chart variant.
- 6) Click **OK**. The chart in the presentation reflects the new type selected.

Entering chart data

Opening a chart data window

- 1) Double-click the chart. It should now have a gray border. The main toolbar has now changed to show tools specifically for charts.
- 2) Click the **Chart Data** icon  or select **Edit > Chart Data**. The **Chart Data** window appears. (If the main toolbar is not showing, select **View > Toolbars > Main Toolbar**.)

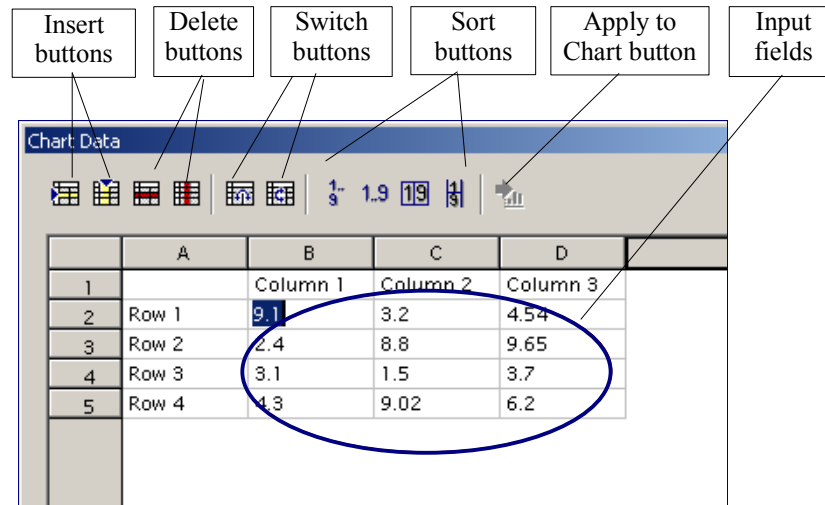


Figure 10: Chart Data area

Entering data

Enter data in the Chart Data window.

- *Insert* buttons insert a row or column.
- *Delete* buttons remove the information from a selected row or column.
- *Switch* buttons exchange the contents of the selected row with the contents of the row below it, or the contents of a column with those of the column to the right.
- *Sort* buttons organize the content in ascending order. You can sort data within a selected row or column, or sort the rows or columns themselves.
- *Apply to Chart* transfers the data from the table to the chart.
- *Input fields* are where you insert data. Enter information in the boxes within the desired rows and columns.

Tip By dragging the Chart Data window so that your chart is visible, you can immediately see the results after clicking the **Apply to Chart** button.

Formatting the chart

Format menu

The format menu has many options for formatting and fine-tuning the look of your charts.

Double-click the chart so that it is enclosed by a gray border. Click **Format** in the main menu list. See Figure 11.

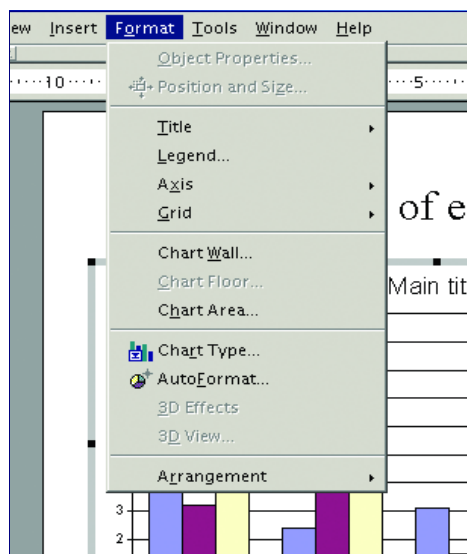


Figure 11: Chart format menu

- *Title* formats the titles of the chart, the x axis and y axis.
- *Legend* formats the location, borders, background, and type of the legend.
- *Axis* formats the lines that create the chart as well as the font of the text that appears on both the X and Y axes.
- *Grid* formats the lines that create a grid for the chart.
- *Chart Wall*, *Chart Floor*, and *Chart Area* are described in the following sections.
- *Chart Type* changes what kind of chart is displayed and whether it is two- or three-dimensional.
- *Auto Format* takes you through the AutoLayout feature.
- *3D Effects* formats various elements of a 3D chart.
- *3D View* formats the various viewing angles of 3D chart.

Note **Chart Floor**, **3D Effects**, and **3D View** options are only available for a 3D chart. These options are unavailable (grayed out) if a two-dimensional chart is selected.

The two main areas of the chart control different settings and attributes for the chart. See Figure 12.

- *Chart wall* contains the graphic of the chart displaying the data.

- *Chart area* is the area surrounding the chart graphic. The main title and the key are in the chart area.

Note **Chart Floor**, from the **Format** menu, is only available for 3D charts and has the same formatting options as **3Chart Area** and **Chart Wall**.

Knowing the difference between the chart wall and chart area is helpful when formatting a chart.

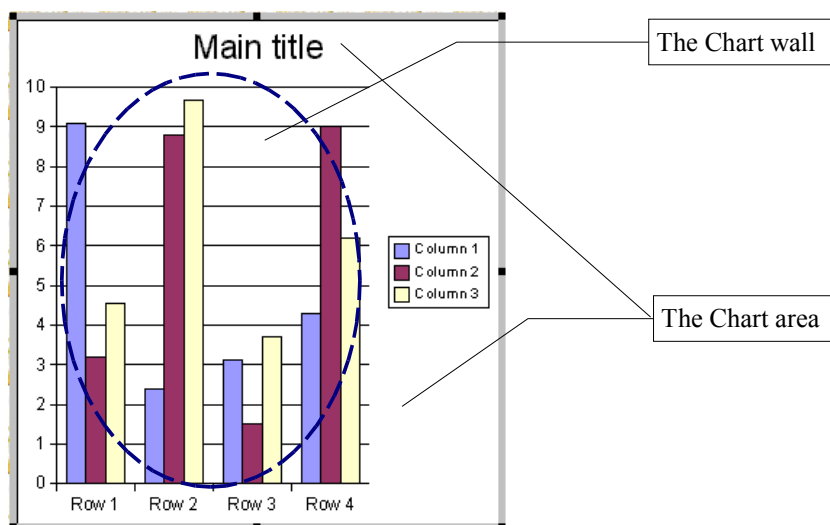


Figure 12: The Chart wall and Chart area

Resizing the chart

- 1) Click on the chart to select it. Green sizing handles appear around the chart.
- 2) To increase or decrease the size of the chart, click and drag one of the markers in one of the four corners of the chart. To maintain the correct ratio of the sides, hold the *Shift* key down while you click and drag.

Moving chart elements

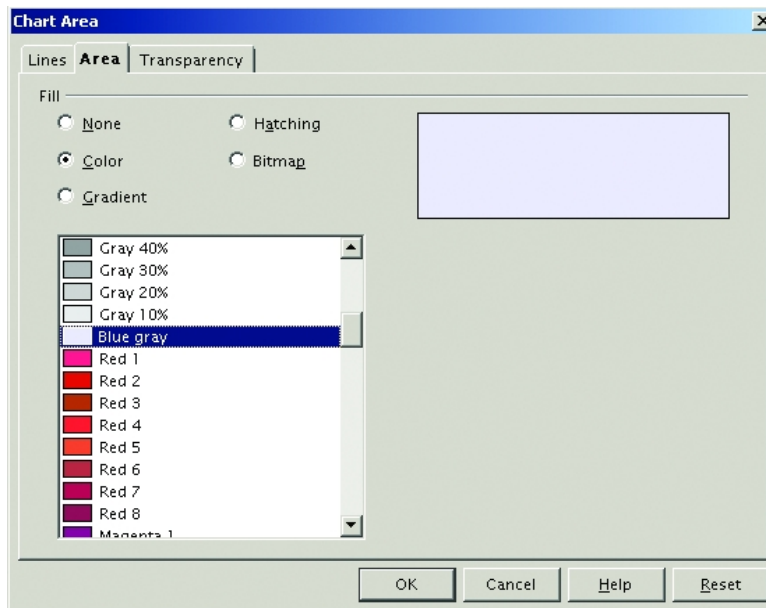
- 1) Double-click the chart so that it is enclosed by a gray border.
- 2) Click any of the elements—the title, the key, or the chart graphic—to select it. Green resizing handles appear.
- 3) Move the pointer over the selected element. When it becomes a four-headed arrow, click and drag to move the element.
- 4) Release the mouse button when the element is in the desired position.

Note If your graphic is 3D, round red handles appear which control the three-dimensional angle of the graphic. You cannot resize or reposition the graphic while the round red handles are showing. With the round red handles showing, *Shift + Click* to get the green resizing handles. You can now resize and reposition your 3D chart graphic. See the following tip.

Tip You can resize the chart graphic using its green resizing handles (*Shift + Click*, then drag a corner handle to maintain the proportions). However, you cannot resize the title or the key.

Changing the chart area background

- 1) The chart area is the area surrounding the chart graphic, including the main title and key.
- 2) Double-click the chart so that it is enclosed by a gray border.
- 3) Select **Format > Chart Area**. The **Chart Area** window appears. See Figure 13.
- 4) Choose the desired format settings.



Lines—place a border around the chart area.

Area—choose from a variety of background fill options.

Transparency—set the opacity of the background fill and give it a gradient, if desired.

Figure 13: Chart Area dialog

Changing the chart graphic background

The chart wall is the area that contains the chart graphic.

- 1) Double-click the chart so that it is enclosed by a gray border.
- 2) Select **Format > Chart Wall**. The **Chart Wall** window appears. It has the same formatting options as described in “Changing the chart area background” above.
- 3) Choose your settings and click **OK**.

Inserting other objects

Impress offers the capability of inserting in a slide various types of objects such as music or video clips, Writer documents, Math formulas, generic OLE objects and so on. A typical presentation may contain movie clips, sound clips, OLE objects and formulas; other objects are less frequently used since they do not appear during a slide show.

This section covers the part of the Insert menu shown in Figure 14.

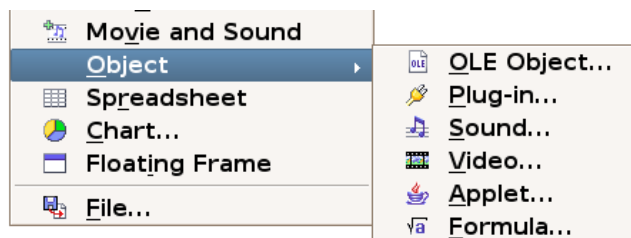


Figure 14: Part of the Insert menu

Movies and sound

To insert a movie clip or a sound into a presentation, select **Insert > Movie and Sound**. Select the media file to insert from the dialog, to place the object on the slide.

To insert media clips directly from the Gallery:

- 1) If not already open, open the Gallery by selecting **Tools > Gallery**.
- 2) Browse to the Theme containing media files (for example the Sounds theme).
- 3) Click on the movie or sound to be inserted and drag it into the slide area.

The Media Playback toolbar (Figure 15) is automatically opened allowing you to preview the media object as well as to resize it. If the toolbar does not open, select **Tools > Media Player**.

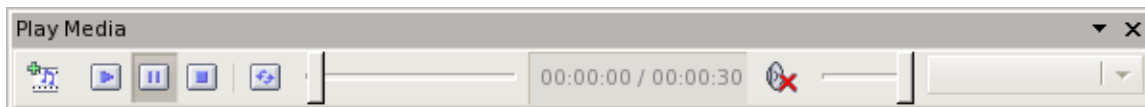


Figure 15: The media playback toolbar (movie clip)

The Media Playback toolbar consists of the following elements:

- *Add button*: opens a dialog where you can select the media file to be inserted.
- *Play, Pause, Stop buttons*: control the media playback.
- *Repeat button*: if pressed the media will restart once finished.
- *Playback slider*: allows to select the position within the media clip
- *Timer*: displays the current position of the media clip
- *Mute Button*: when selected the sound will be suppressed

- *Volume Slider*: allows adjusting the volume of the media clip
- *Scaling drop-down menu*: only available for movies allows scaling of the movie clip.

The movie will start playing as soon as the slide is shown during the presentation.

Note that Impress will only link the media clip, therefore when the presentation is moved to a different computer, the link will most likely be broken and as a consequence the media will not play. An easy workaround that prevents this from happening is the following:

- 1) Place the media file to be included in the presentation in the same folder where the presentation is stored.
- 2) Insert the media file in the presentation.
- 3) When sending the presentation to a different computer, send also the media file and place both files in the same folder on the target computer.

Note At present (OOo 2.1) it is not possible to have a media file played throughout the presentation. It will only be active in the slide where it has been inserted.

Impress offers the possibility to preview the media clips that are to be inserted by means of the provided media player. To open it select **Tools > Media Player**. The media player is shown in Figure 16. Its toolbar is the same as that of the media playback toolbar described above.

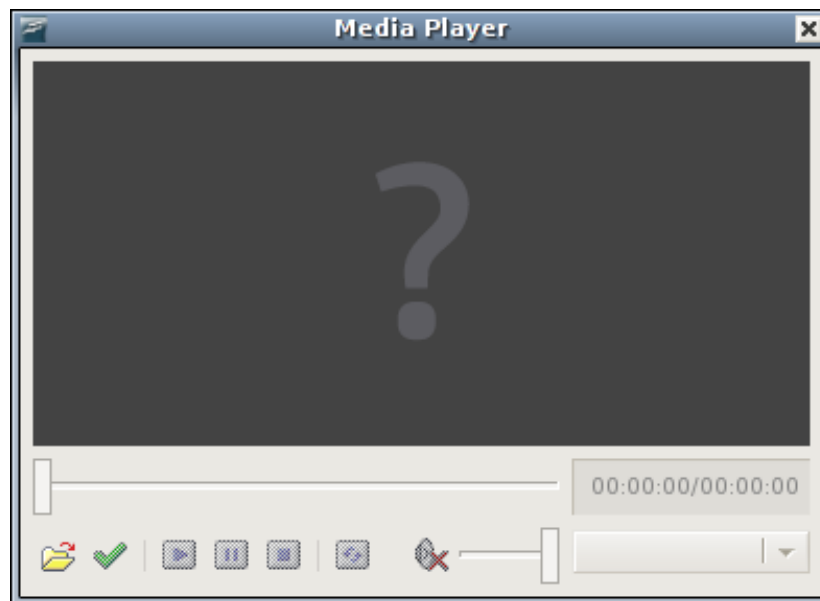


Figure 16: The embedded media player in OpenOffice.org

OLE Objects

Inserting an OLE (Object Linking and Embedding) object allows to insert in a presentation either a new document or an existing one. Embedding inserts a copy of the object and details of the source program in the target document, that is the program which is associated to the file type in the operating system. The major benefit of an OLE object is that it is quick and easy to edit the contents just by double-clicking on it. You can also insert a link to the object that will appear as an icon rather than an area showing the contents itself.

To create and insert a new OLE object:

- 1) Select **Insert > Object > OLE object** from the main menu. This opens the dialog shown in Figure 17.

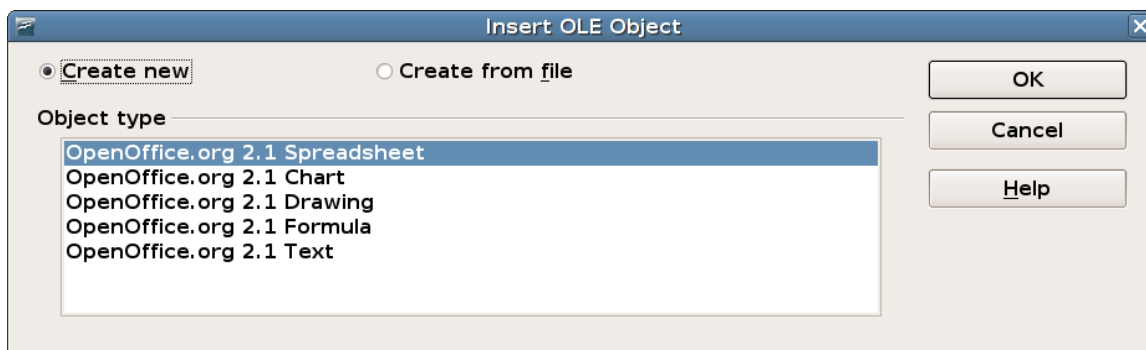


Figure 17: Insert OLE Object dialog

- 2) Select **Create new** and select the object type among the available options.
- 3) Click **OK**. An empty container is placed in the slide.
- 4) Double-click on the OLE object to enter the edit mode of the object. The application devoted to handling the type of file you inserted will open the object.

Note If the object inserted is handled by the OpenOffice.org suite, then the transition to the program to manipulate the object will be seamless, in other cases the object opens in a new window and an option in the File menu becomes available to update the object you inserted ((not so sure... have to check in WinXP when in the office))

To insert and embed an existing object:

- 1) Select **Insert > Object > OLE object** from the main menu.
- 2) In the Insert OLE Object dialog (Figure 17), select **Create from file**. The dialog changes to look like Figure 18.
- 3) Click **Search**, select the required file in the file picker window, then click **Open**. A section of the inserted file is shown on the slide.

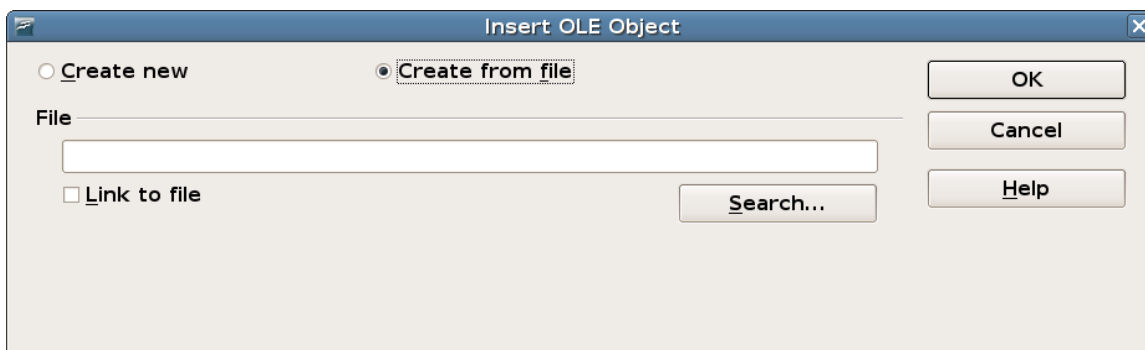


Figure 18: Inserting an object as a link

To insert an object as a link:

- 1) Select **Insert > Object > OLE object** from the main menu.
- 2) In the Insert OLE Object dialog (Figure 17), select **Create from file**. The dialog changes to look like Figure 18.
- 3) Select the **Link to file** checkbox.
- 4) Click **Search**, select the required file in the file picker window, then click **Open**.

Other OLE objects

Under Windows, the Insert OLE Object dialog has an extra entry, Further objects, as shown in Figure 19.

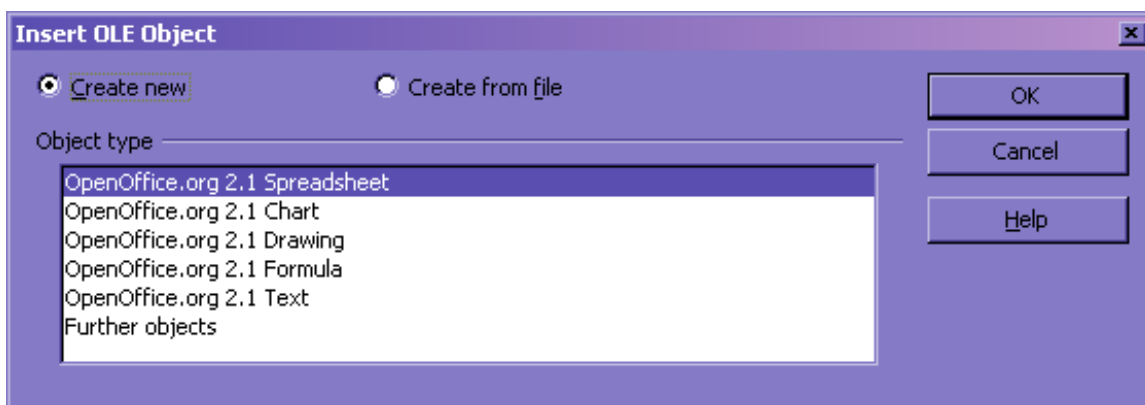


Figure 19: Insert OLE Object dialog under Windows.

- 1) Double-click on the entry **Further objects** to open the dialog shown in Figure 20.
- 2) In the Insert Object dialog, select whether a new object is required or if instead an object should be created from a file.
- 3) Select the object type if known in the list box (if the type is not known, Windows will use the associated application to edit the object).
- 4) If instead of an object you want to insert a link, select the **Link to file** checkbox. Optionally change the icon by pressing the button that appears under the checkbox when selected.

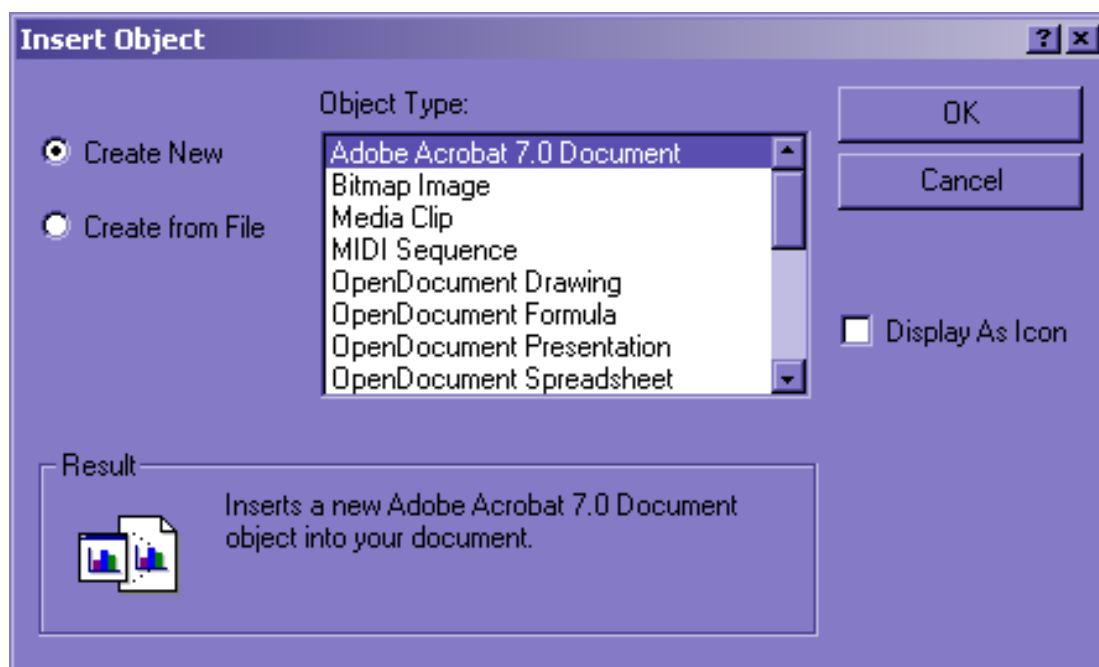


Figure 20: Advanced menu to insert an OLE object under Windows

Formulas

Use **Insert > Object > Formula** to create a Math object in a slide. When editing a formula, the main menu changes into the Math main menu.

Care should be taken about the font sizes used in order to make them comparable to the font size used in the rest of the slide. To change the font attributes of the Math object, select **Format > Font Size** from the main menu bar. To change the font type, select **Format > Fonts** from the main menu bar.

For additional information on how to create formulas, refer to Chapter 11 (Getting Started with Math) in the *Getting Started* guide, or Chapter 16 (Math Objects) in the *Writer Guide*.

Note that unlike Writer, a formula in Impress is treated as an object, therefore it will not be automatically aligned with the rest of the text. The formula can be however moved around (but not resized) as any other object.

Inserting a file

You can insert the contents of a file into a presentation. The types of file accepted are OpenOffice.org Draw file, HTML files or plain text files.

Select **Insert > File** from the main menu to open a file picker window. If there is an internet connection, it is also possible to insert in the file name field a URL. Select the file and click **Insert**.