



LibreOffice
Community



Writer Guide

Chapter 19 *Spreadsheets, Charts, Other* *Objects*

Contents

Copyright.....	2
Contributors.....	2
Feedback.....	2
Publication date and software version.....	2
Using LibreOffice on macOS.....	2
Introduction: OLE and DDE objects.....	5
Inserting a new OLE object.....	5
Inserting a file as an OLE object.....	6
Editing OLE objects.....	6
Creating a DDE link in Writer.....	7
Spreadsheets.....	7
Embedding or linking a spreadsheet.....	7
Resizing and moving spreadsheet objects.....	8
Resizing.....	8
Moving.....	8
Editing a spreadsheet object.....	8
Spreadsheet organization.....	8
Working with embedded sheets.....	9
Cell navigation.....	9
Entering data.....	9
Formatting cell data.....	10
Formatting spreadsheets.....	10
Manual formatting.....	10
Using formatting styles.....	11
Inserting and deleting rows or columns.....	11
Deleting cells.....	11
Merging and splitting cells.....	11
Charts and graphs.....	12
Inserting a chart.....	12
Selecting chart type.....	12
Chart types.....	13
Entering chart data.....	14
Adding or removing chart elements.....	14
Chart formatting.....	15
Resizing and moving charts.....	15
Resizing.....	15
Moving.....	15
Position and Size dialog.....	15
Chart elements.....	16
Changing chart area background.....	16
Changing chart wall background.....	16
Audio and video.....	16
Using media files.....	17
Using the Gallery.....	17
Media playback.....	17

Introduction: OLE and DDE objects

You can embed or link objects as either OLE (Object Linking and Embedding) or DDE (Dynamic Data Exchange). Both methods enable you to use information from one application (say, Calc) in another application (Writer, in this case). The difference between a DDE object and a linked OLE object is that a linked OLE object can be edited from the document in which it is added as a link, but a DDE object cannot.

For example, if a Calc spreadsheet is pasted into a Writer document as a DDE object, then the spreadsheet cannot be edited in the Writer document. But if the original Calc spreadsheet is updated, the changes are automatically made in the Writer document. If the spreadsheet is inserted as a Linked OLE object into the Writer document, then the spreadsheet can be edited in Writer as well as in the Calc document and both documents are in sync with each other.

Both linking and embedding insert information from one document into another document, but the methods store information differently. They are different from directly copying and pasting information because you can open and edit objects in the applications that created them.

An **embedded** OLE object is a *copy* of information from another document. When you embed objects, there is no link to the source document and any changes made to the source document are not reflected in the destination document. Embed objects if you want to be able to use the application that created them for editing, but you do not want the OLE object to be updated when you edit information in the source document.

A **linked** object is a *reference* to information in another document. Link objects when you want to use the same information in more than one document. Then, if you change the original information, you need to update only the links in order to update the document containing the OLE objects. You can also set links to be updated automatically. When you link an object, you need to maintain access to the source application and the linked document. If you rename or move either of them, you may need to reestablish the link.

The following types of files or documents can be inserted into a Writer document as an OLE object: spreadsheets, charts, drawings, formulas (equations), and presentations.

Inserting a new OLE object

When you insert a **new** OLE object into a document, it is embedded; that is, the object is available only in that document and can only be edited using Writer.

To insert a new OLE object into a document:

- 1) Click where you want to insert the object.
- 2) Choose **Insert > Object > OLE Object** on the Menu bar.
- 3) On the Insert OLE Object dialog (Figure 1), select **Create new**.
- 4) Select the type of object you want to create and click **OK**.
- 5) A new OLE object is inserted in the document in edit mode. The toolbars displayed in Writer will change, providing the necessary tools for you to create the new OLE object.

Note

Computers running Microsoft Windows show an additional option of **Further Objects** in the Object Type list. This option opens a dialog where you can create an OLE object using other software that is compatible with OLE and LibreOffice. This option is available for new OLE objects and for OLE objects from another file.

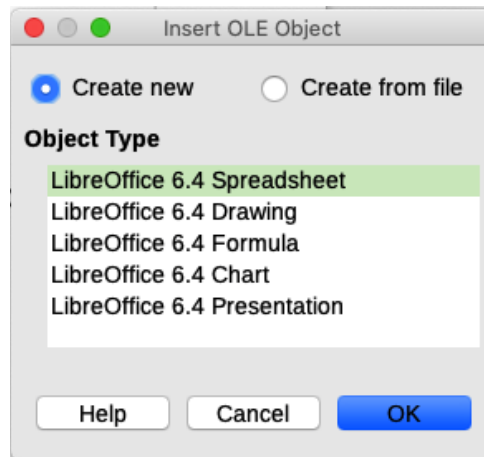


Figure 1: Inserting a new OLE object

Inserting a file as an OLE object

When you insert an existing file (for example, a spreadsheet) into a Writer document as an OLE object, you can choose whether to embed or link the file.

- 1) Click where you want to insert the file and choose **Insert > Object > OLE Object** on the Menu bar.
- 2) On the Insert OLE Object dialog, select **Create from file**. The dialog changes to show a *File* text box (Figure 2).

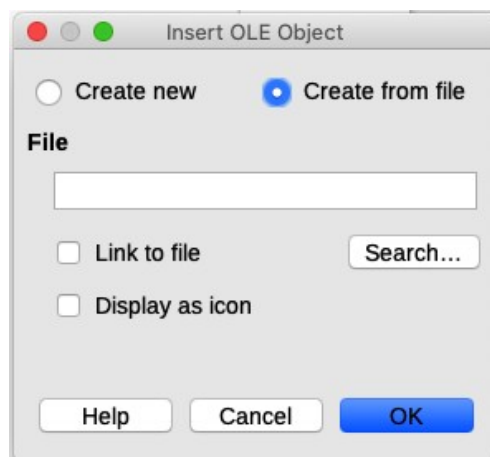


Figure 2: Inserting an OLE object from a file

- 3) Click **Search** to open a file browser.
- 4) Locate the file you want to insert and click **Open**.
 - To insert the file as a live link so that any changes made are synchronized in both the original file and your document, select the **Link to file** option.
 - To show a selectable icon for the application that created the file (in this case, Calc), instead of displaying the contents of the file, select the **Display as icon** option.
- 5) Click **OK** to insert the file as an OLE object.

Editing OLE objects

To edit an OLE object after it has been created or inserted from a file:

- 1) Double-click the OLE object to open it in edit mode. The toolbars displayed in Writer will change to provide the tools necessary to edit the object.
- 2) When you finish editing the object, click anywhere outside the object to exit edit mode.

- 3) Save the Writer document. Any changes made to the OLE object are also saved.

If the OLE object is linked, then if you change it in Writer it will change in Calc; if you change it in Calc, it will change in Writer. This can be a very powerful tool if you create reports in Writer using Calc data, and want to make a quick change without opening Calc.

Creating a DDE link in Writer

To create a DDE link from Calc to Writer:

- 1) Open both the Writer document and the Calc spreadsheet.
- 2) In Calc, select the cells to make the DDE link to. Copy them.
- 3) Go to the place in your Writer document where you want the DDE link. Select **Edit > Paste Special > Paste Special**. Writer displays its Paste Special dialog (Figure 3).
- 4) Select the **Dynamic Data Exchange (DDE link)** option in the *Selection* list.
- 5) Click the **OK** button. Now the link has been created in Writer. When the Calc spreadsheet is updated, the table in Writer is automatically updated.

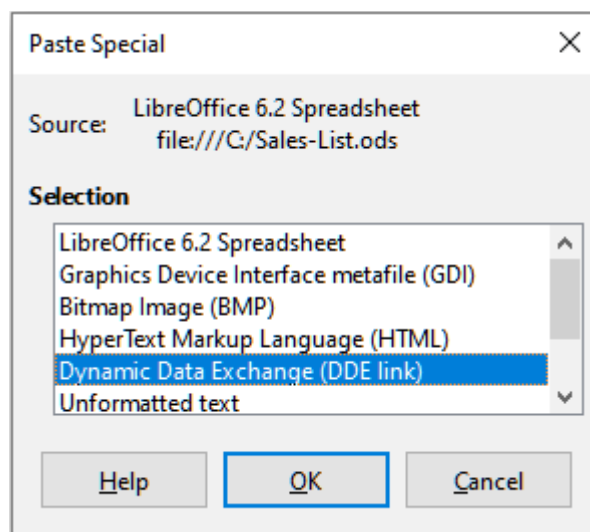


Figure 3: Paste Special dialog in Writer, with DDE link selected

Spreadsheets

To include a spreadsheet in a Writer document, you can insert either an existing spreadsheet file or a new spreadsheet as an OLE object, as explained above, or create a DDE (Dynamic Data Interchange) object.

Embedding or linking a spreadsheet

Embedding a spreadsheet into Writer includes most of the functionality of a Calc spreadsheet. Writer is capable of performing complex calculations and data analysis. However, if you plan to use complex data or formulas, it is recommended to perform those operations in a separate Calc spreadsheet and use Writer only to display the embedded spreadsheet with the results.

You may be tempted to use spreadsheets in Writer for creating complex tables or presenting data in a tabular format. However, the Table feature in Writer is often more suitable and faster to use, depending on the complexity of your data; see Chapter 13, Tables of Data.

To embed a spreadsheet into a Writer document, follow the instructions in “Inserting a file as an OLE object” on page 6.

When an entire spreadsheet is inserted into a document, if it contains more than one sheet and the one you want is not visible, double-click the spreadsheet, and then select a different sheet from the row of sheet tabs at the bottom.

Resizing and moving spreadsheet objects

When selected, a spreadsheet object is treated like any other object.

Resizing

To resize the area occupied by the spreadsheet:

- 1) Click on the object to show the selection handles in the border.
- 2) Move the mouse pointer over one of the handles. The pointer changes shape to give a visual representation of the effects applied to the area.
- 3) Click and hold the left mouse button and drag the handle. The corner handles move the two adjacent sides simultaneously, while the handles at the midpoint of the sides modify one dimension at a time.

Moving

Moving a spreadsheet object to change its position within the document is the same as moving any other object in Writer:

- 1) Click on the object to show the selection handles in the border.
- 2) Move the cursor over the object until the cursor changes shape (normally a hand, but this depends on your computer setup). Be careful not to double-click the spreadsheet object and activate object editing mode.
- 3) Click and drag the object to the desired position. Release the mouse button.

Editing a spreadsheet object

To edit a spreadsheet object, double-click it, or select it and choose **Edit > Object > Edit** on the Menu bar, or right-click and choose **Edit** in the context menu.

You edit the object in its own frame within the Writer document, but some of the toolbars change in Writer. One of the most important changes is the presence of the Formula bar, which contains (from left to right):

- The **Name Box**, that shows the active cell reference or the name of a selected range of cells.
- The **Function Wizard** icon.
- The **Select Function** and **Formula** icons or the **Cancel** and **Accept** icons, depending on the editing actions taken in the spreadsheet.
- A long **Input Line** to enter or review the contents of the active cell.

If you are familiar with Calc, you will immediately recognize the tools and the menu items. See Chapter 5, Getting Started with Calc, in the *Getting Started Guide* for more information.

Spreadsheet organization

A spreadsheet consists of pages called sheets. However, in Writer, only one sheet can be shown at a time when a spreadsheet with multiple sheets is embedded into a Writer document.

Each sheet is organized into cells, which are the elementary units of the spreadsheet. They are identified by a row number (shown on the left-hand side) and a column letter (shown in the top row). For example, the top left cell is identified as A1, while the third cell in the second row is C2. All data elements, whether text, numbers, or formulas, are entered into a cell.

✓ Note

If you have multiple sheets in your embedded spreadsheet, only the active sheet is shown on the page after exiting edit mode.

Working with embedded sheets

You can insert, rename, delete, and edit sheets in an embedded spreadsheet. To begin, double-click the embedded spreadsheet to open it in edit mode. When you finish editing the embedded spreadsheet, click anywhere outside the border to exit edit mode and save the changes.

i Tip

For more details on any of these procedures, refer to Chapter 5, Getting Started with Calc, in the *Getting Started Guide*.

Inserting sheets

- 1) Right-click a sheet name and select **Insert Sheet** from the context menu, or go to **Sheet > Insert Sheet** on the Menu bar to open the Insert Sheet dialog.
- 2) Select the sheet position, number of sheets to be inserted, sheet name, or which spreadsheet file to use from the options available in the Insert Sheet dialog.
- 3) Click OK to close the dialog and insert the sheet.

Renaming sheets

Right-click the sheet tab and select **Rename Sheet** in the context menu, or go to **Sheet > Rename Sheet** on the Menu bar, to open the Rename Sheet dialog.

Moving and copying sheets

- 1) Right-click the sheet name and select **Move or Copy Sheet** in the context menu, or go to **Sheet > Move or Copy Sheet** on the Menu bar to open the Move/Copy Sheet dialog.
- 2) Select whether to move or copy the sheet, the sheet location and position, and a new sheet name. Click **OK** to close the dialog and move or copy the sheet.
- 3) Alternatively, click the sheet tab and drag it to a new position in the embedded spreadsheet.

Deleting sheets

- 1) Right-click the sheet tab and select **Delete Sheet** in the context menu, or go to **Sheet > Delete Sheet** on the Menu bar. If the spreadsheet has only one sheet remaining, you cannot delete that sheet.
- 2) Click **Yes** to confirm.

Cell navigation

To move around the spreadsheet to select a cell to make it active, you can:

- Use the keyboard arrow keys.
- Position the cursor in a cell and left-click the mouse.
- Use the *Enter* key to move one cell down and *Shift+Enter* to move one cell up.
- Use the *Tab* key to move one cell to the right and *Shift+Tab* to move one cell to the left.

Entering data

Data input into a cell can only be done when a cell is active. An active cell is easily identified by a thickened and bolder border. The cell reference (or coordinates) for the active cell is displayed at the left-hand end of the Formula bar.

- 1) Select the cell to make it active and start typing. The data input is also displayed in the **Input line** on the Formula toolbar, making the data entry easier to read.
- 2) Use the **Function Wizard**, **Select Function**, and **Formula** icons to enter data, formulas, or functions into a cell. If the input is not a formula (for example, a text or date entry), the **Select Function** and **Formula** icons change into the **Cancel** and **Accept** icons.
- 3) To confirm data input into a cell, either select a different cell, or press the *Enter* key, or click the **Accept** icon on the Formula bar.

Formatting cell data

Writer normally recognizes the type of contents (text, number, date, time, and so on) entered into a cell and applies default formatting to it. However, if Writer wrongly recognizes the type of data you have entered into a cell:

- 1) Select the cell, then right-click it and select **Format Cells** in the context menu, or go to **Format > Cells** on the Menu bar, or use the keyboard shortcut **Ctrl+1**.
- 2) In the Format Cells dialog, click the appropriate tab to open the correct page and use the options on that page to format the cell data.
- 3) Click **OK** to close the dialog and save your changes.

Tip

To force Writer to treat numbers as text (for example, telephone numbers) and to prevent Writer from removing the leading zeros or right-align them in a cell, type a single quotation mark (') before entering the number.

Formatting spreadsheets

It may be necessary to change the formatting of a spreadsheet to match the style used in the document.

When working on an embedded spreadsheet, you can also access any cell styles created in Calc and use them. However, if you are going to use styles, it is recommended to create specific cell styles for embedded spreadsheets, as Calc cell styles may be unsuitable when working within Writer.

Manual formatting

To manually format an embedded spreadsheet:

- 1) Select a cell or a range of cells. See Chapter 5, Getting Started with Calc, in the *Getting Started Guide* for more information on selecting ranges of cells.
- 2) Right-click the selection and go to **Format Cells** in the context menu, or go to **Format > Cells** on the Menu bar, or use the keyboard shortcut **Ctrl+1** to open the Format Cells dialog.
- 3) Use the various dialog pages to format the embedded spreadsheet so that it matches the style of your document.
- 4) Click **OK** to close the dialog and save your changes.
- 5) If necessary, adjust the column width by hovering the mouse over the line separating two columns in the header row until the mouse cursor changes to a double-headed arrow; then click the left button and drag the separating line to the new position.
- 6) If necessary, adjust the row height by hovering the mouse over the line separating two rows in the row header until the mouse cursor changes to a double-headed arrow; then click the left button and drag the separating line to the new position.

- 7) When you are satisfied with the formatting changes, click outside the spreadsheet area to save your changes and exit edit mode.

Using formatting styles

When an embedded spreadsheet is in edit mode, Writer displays the available styles for a spreadsheet in the Styles deck in the sidebar.

If a style you want to use is not available, you can create it (see Chapter 8, Introduction to Styles). Styles used in an embedded spreadsheet are similar to paragraph styles used in Writer.

To use styles in your embedded spreadsheet:

- 1) Open the Styles deck in the Sidebar.
- 2) Select data in a cell and double-click a style in the Styles deck to apply it.

Inserting and deleting rows or columns

To insert rows or columns in an embedded spreadsheet:

- 1) Select the column or row where you want the new column or row inserted.
- 2) Go to **Sheet** on the Menu bar and select either **Insert Columns > Columns Before**, or **Insert Columns > Columns After**, or **Insert Rows > Rows Above**, or **Insert Rows > Rows Below**.

Or, right-click the column or row header and select **Insert Columns Before**, **Insert Columns After**, **Insert Rows Above**, or **Insert Rows Below** in the context menu.

To delete rows or columns from an embedded spreadsheet:

- 1) Highlight the rows or columns that you want to delete.
- 2) Go to **Sheet** on the Menu bar and select **Delete Rows** or **Delete Columns**, or right-click and select **Delete Columns** or **Delete Rows** in the context menu.

Deleting cells

- 1) Select the cells you want to delete.
- 2) Go to **Sheet > Delete Cells**, or press **Ctrl+-**. Or, right-click on a cell and select **Delete** in the context menu.
- 3) Select the option you require on the Delete Cells dialog.

Merging and splitting cells

To merge contiguous cells into a single cell:

- 1) Select the cells to be merged.
- 2) Right-click on the selected cells and select **Merge Cells** in the context menu, or go to **Format > Merge Cells > Merge Cells** or **Merge and Center Cells** on the Menu bar, or click on the **Merge and Center Cells** icon on the Formatting toolbar. Using **Merge and Center Cells** will center align any contents in the cells.
- 3) If the cells contain any data, a small dialog opens, showing choices for moving or hiding data in the hidden cells. Make your selection and click **OK**.

To split a group of cells that have been merged into a single cell:

- 1) Select the cell that contains merged cells.
- 2) Go to **Format > Merge Cells > Split Cells** or right-click and select **Split Cells** in the context menu.

Charts and graphs

Charts and graphs are graphical interpretations of data, often from a spreadsheet. For more information, see Chapter 3, Creating Charts and Graphs, in the Calc Guide.

Inserting a chart

You can add a chart to your document as an OLE object (see page 5) or using the tools in Writer.

To add a chart using Writer's tools, choose **Insert > Chart** on the Menu bar to insert a generic chart (Figure 4) at the cursor location. The chart is selected and the Menu bar and toolbars change to those appropriate for charts.

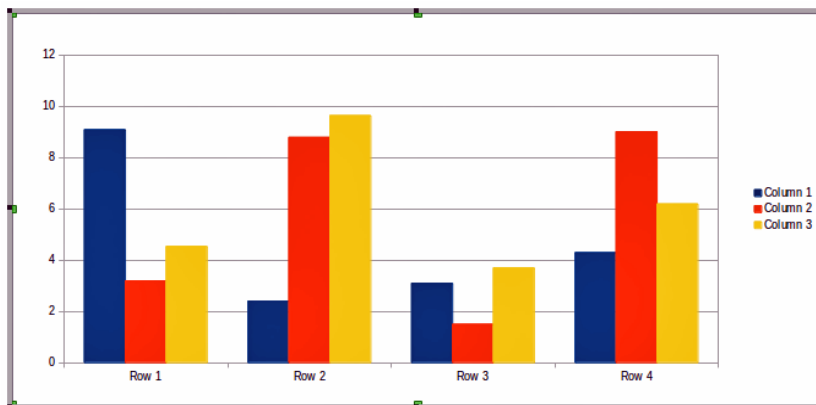


Figure 4: Chart with sample data

Selecting chart type

Your data can be presented using a variety of different charts. Writer contains several chart types that will help you convey your message to your audience. See “Chart types” on page 13.

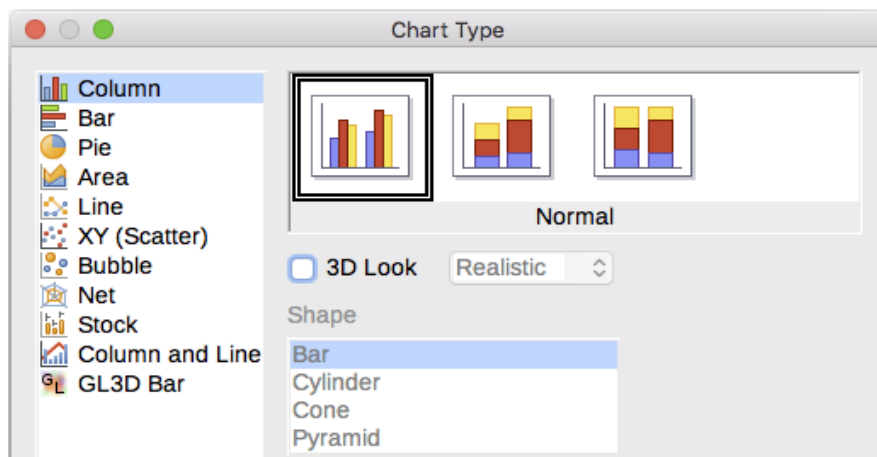


Figure 5: Chart Type dialog showing two-dimensional charts

- 1) Make sure that the chart is selected. The chart has a border and selection handles when selected.
- 2) Click the **Chart Type** icon on the Formatting toolbar or go to **Format > Chart Type** on the Menu bar, or right-click the chart and select **Chart Type** in the context menu to open Chart Type dialog (Figure 5).
- 3) As you change selections in the left-hand list, the chart examples on the right change. You can move the Chart Type dialog to one side to see the effect in the chart.

- 4) As you change chart types, other selections become available on the right-hand side. For example, some chart types have both 3D and 2D variants. When **3D Look** is selected, more options become available for selection of shapes for the columns or bars.
- 5) Choose the chart characteristics you want and click **OK** to save your changes and return to the edit window.
- 6) Continue to format the chart, add data to it, or click outside the chart to return to normal view.

Chart types

The following summary of the chart types available will help you choose a type suitable for your data. Column, bar, pie, and area charts are available as 2D or 3D types. Examples of these types are given in detail in Chapter 3, *Creating Charts and Graphs*, in the *Calc Guide*.

Column charts

A column chart shows vertical bars, with the height of each bar proportional to its value. They usually display data that shows trends over time. It is recommended to use column charts where you have a relatively small number of data points. If you have a large time series as your data, it is recommended to use a line chart.

Bar charts

A bar chart is like a column chart that has been shifted 90 degrees. It shows horizontal bars rather than vertical columns. Bar charts give an immediate visual impact for data comparison where time is not important, for example comparing the popularity of products in a marketplace.

Pie charts

A pie chart shows values as sections of a circle. The area of each section is proportional to its value. Pie charts give a comparison of proportions, for example, when comparing what different departments spent on different items or what different departments actually spent overall. They work best with a small range of values, up to about. Using a larger range of values, the visual impact begins to fade.

Area charts

Area charts are versions of line or column charts. They are useful when you want to emphasize volume of change. Area charts have a greater visual impact than a line chart, but use them carefully, because the type of data you use does make a difference to the visual impact.

Line charts

Line charts give time series with progression. They are ideal for raw data and useful for charts with data showing trends or changes over time where you want to emphasize continuity. On line charts, the X-axis is ideal for representing time series data. 3D lines may confuse the viewer, so just using a thicker line gives a better visual impact.

XY (Scatter) charts

Scatter charts are great for visualizing data that you have not had time to analyze and may be best for data where you have a constant value for comparison: for example weather data, reactions under different acidity levels, conditions at altitude, or any data which matches two numeric series. The X-axis usually plots the independent variable or control parameter (often a time series).

Bubble charts

A bubble chart is a variation of a scatter chart that can show three variables in two dimensions. Two variables identify the position of the center of a bubble on a Cartesian graph, while the third variable indicates the radius of the bubble. These charts are often used to present financial data or social/demographic data.

Net charts

Net charts are similar to polar or radar graphs and are useful for comparing data not in time series, but show different circumstances, such as variables in a scientific experiment. The poles of the net chart are the Y-axes of other charts. Generally, between three and eight axes are best; any more and this type of chart becomes confusing.

Stock charts

Stock charts are specialized column graphs specifically used for stocks and shares. You can choose traditional lines, candlestick, and two-column charts. The data required for these charts is specialized with series for opening price, closing price, and high and low prices. The X-axis represents a time series.

Column and line charts

A column and line chart is a combination of two other chart types. It is useful for combining two distinct, but related data series, for example sales over time (column) and the profit margin trends (line).

Entering chart data

- 1) Select the chart and then select the chart type.
- 2) Click the **Data Table** icon, or select **View > Data Table** on the Menu bar, or right-click and select **Data Table** in the context menu to open the Data Table dialog (Figure 6).
- 3) Type or paste information into the cells within the desired rows and columns in the Data Table dialog. You can also use the icons in the top left corner of the Data Table dialog to insert, delete or move data.

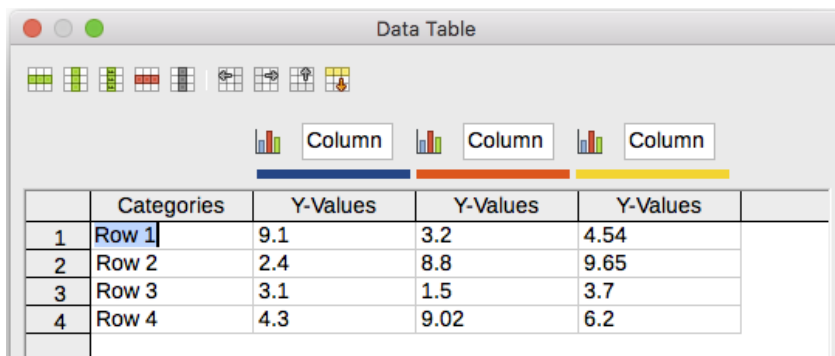


Figure 6: Chart Data Table dialog

Adding or removing chart elements

The specimen chart inserted into a document includes two elements: a chart wall and a chart legend (also known as the key). You can add or remove elements to or from a chart as follows:

- 1) Make sure the chart is selected and in edit mode.
- 2) Go to **Insert** on the Menu bar and select on the submenu an element that you want to add to the chart, or right-click the chart wall or a chart element and select an element you want to add in the context menu. Selecting an element opens a dialog where you can specify options for the element.

Note

Right-clicking on a chart element will give you more options to choose from when adding elements to your chart. The number of available insert options in the context menu depends on the type of element selected.

- 3) To remove an element from a chart, right-click the chart element you want to remove and select **Delete** in the context menu. The type of element selected for removal will change the delete options in the context menu.
- 4) Select a chart element and press the *Del (Delete)* key or the *Backspace* key to remove it from the chart.

Chart formatting

To change the format of a selected chart:

- 1) Make sure the chart is selected and in edit mode.
- 2) Go to **Format** on the Menu bar and select on the submenu an element that you want to format, or right-click a chart element and select a format option from the context menu. Selecting an element opens a dialog where you can specify format options for the element.

The formatting options available depend on whether the whole chart is selected or which chart element has been selected.

Resizing and moving charts

You can resize or move a chart interactively or by using the Position and Size dialog. You can also use a combination of both methods.

Resizing

To resize a chart interactively:

- 1) Click a chart to select it. Selection handles appear around the chart.
- 2) To increase or decrease the height of a chart, click and drag on a selection handle at the top or bottom of the chart.
- 3) To increase or decrease the width of a chart, click and drag on a selection handle at the left or right of the chart.
- 4) To increase or decrease both the height and width of a chart at the same time, click and drag on a selection handle in one of the corners. To maintain the correct aspect ratio between height and width, hold the *Shift* key down while you click and drag.

Moving

To move a chart interactively:

- 1) Click the chart to select it. Selection handles appear around the chart.
- 2) Move the cursor anywhere on the chart other than on a selection handle.
- 3) When it changes shape, click and drag the chart to its new location.
- 4) Release the mouse button when the chart is in the desired position.

Position and Size dialog

To resize or move a chart using the Position and Size dialog:

- 1) Double-click the chart so that it is in edit mode.
- 2) Go to **Format > Position and Size** on the Menu bar, or right-click the chart and select **Position and Size** in the context menu. For more information on using the Position and Size dialog, see Chapter 11, Images and Graphics.

Outside of the edit mode, it is possible to change the position and size of the chart in the *Type* page on the Properties dialog. Right-click on the chart and select **Properties** in the context menu.

Chart elements

You can move or resize individual elements of a chart element independently of other chart elements. For example, you can move the chart legend to a different position. Pie charts allow individual wedges of the pie to be moved as well as “exploding” the entire pie.

- 1) Double-click the chart so that it is in edit mode.
- 2) Click any chart element to select it. Selection handles appear.
- 3) Move the cursor over the selected element and when the cursor changes shape, click and drag to move the element.
- 4) Release the mouse button when the element is in the desired position.

Note

If the chart is 3D, round selection handles appear; these handles control the three-dimensional angle of the chart. You cannot resize or reposition the chart while the round selection handles are showing. *Shift+click* to get back to the square resizing handles. You can now resize and reposition the 3D chart.

Changing chart area background

The chart area is the area surrounding the chart graphic and includes the (optional) main title and key.

- 1) Double-click the chart so that it is in edit mode.
- 2) Go to **Format > Chart Area** on the Menu bar, or right-click in the chart area and select **Format Chart Area** in the context menu, or double-click in the chart area to open the Chart Area dialog.
- 3) Click the *Area* tab and select the button corresponding to the type of background fill you want to use. The available options will change depending on the type of fill selected.
- 4) Make your selections and click **OK** to close the dialog and save the changes.

Changing chart wall background

The chart wall is the area that contains the chart graphic. Keep in mind that some chart types do not use a wall, like the pie chart for example.

- 1) Double-click the chart so that it is in edit mode.
- 2) Select the chart wall and go to **Format > Format Selection** on the Menu bar, or right-click in the chart wall and select **Format Wall** in the context menu, or double-click in the chart wall to open the Chart Wall dialog.
- 3) Click the *Area* tab and proceed as above.
- 4) Click **OK** to close the dialog and save the changes.

Audio and video

Although linked audio and video files are irrelevant when a Writer document is printed, if the document is opened on a computer or exported to PDF or HTML, you can play the files by clicking on the links.

Using media files

To insert a media file into your document:

- 1) Choose **Insert > Media > Audio or Video** on the Menu bar to open the Insert Audio or Video dialog.
- 2) Select the media file to insert and click **Open** to place the object in the document.

Tip

To see a list of audio and video file types supported by Writer, open the drop-down list of file types. This list defaults to *All audio and video files*, so you can also choose unsupported files such as .mov.

Writer only links media files and does not embed a media file into a document. Therefore if a document is moved to a different computer, any links will be broken and the media files will not play. To prevent this from happening:

- 1) Place any media files that are included in a document in the same folder where the document is stored.
- 2) Insert the media file in the document.
- 3) Send both the document and any media files to the computer which is to be used for the document and place both files in the same folder on that computer.

Using the Gallery

To insert media clips directly from the Gallery:

- 1) Go to the Gallery on the Sidebar.
- 2) Browse to a theme containing media files (for example, *Sounds*).
- 3) Click the movie or sound to be inserted and drag it into the document area.

Media playback

The Media Playback toolbar is automatically opened when a media file is selected. The default position of the toolbar is at the bottom of the workspace, just above the Drawing toolbar. However, this toolbar can be undocked and placed anywhere. If the toolbar does not open, go to **View > Toolbars > Media Playback** on the Menu bar.

The Media Playback toolbar contains the following tools:

- **Insert Audio or Video** – opens the Insert Audio or Video dialog.
- **Play, Pause, Stop** – controls media playback.
- **Repeat** – if selected, media will continuously repeat playing until this tool is deselected.
- **Position** (Playback slider) – selects the position to start playing from within the media file.
- **Timer** – displays current position of the media clip and length of media file.
- **Mute** – when selected, the sound will be suppressed.
- **Volume** – adjusts the volume of the media file.
- **Media path** – the location of the file on the computer.
- **View** (Scaling drop-down menu) – only available for movies; allows scaling of the clip.

Formulas (equations)

Go to **Insert > Object > Formula** on the Menu bar to create a formula (equation). A formula can also be inserted as an OLE object; see page 5 for more information.

When creating or editing a formula, the Math menu becomes available.

When creating formulas, take care about the font sizes to make sure they are similar in size to fonts used in the document. To change font attributes of a Math object, double-click in the formula to enter edit mode and go to **Format > Font Size** on the Menu bar. To change font type, use **Format > Fonts**.

For information on how to create formulas, see the *Math Guide* or Chapter 9, Getting Started with Math, in the *Getting Started Guide*.