



LibreOffice
Community



Getting Started Guide 7.3

Chapter 5, Getting Started with Calc

Using spreadsheets in LibreOffice

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Contributors

To this edition

Jean Hollis Weber Vasudev Narayanan

To previous editions

Vasudev Narayanan	Felipe Viggiano	Kees Kriek
Jean Hollis Weber	Steve Fanning	Olivier Hallot
Amanda Labby	Jorge Rodriguez	Paul Figueiredo
Dave Barton		

Feedback

Please direct any comments or suggestions about this document to the Documentation Team's mailing list: documentation@global.libreoffice.org



Note

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Publication date and software version

Published February 2022. Based on LibreOffice 7.3 Community.
Other versions of LibreOffice may differ in appearance and functionality.

Using LibreOffice on macOS

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

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

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What is Calc?

Calc is the spreadsheet component of LibreOffice. You can enter data (usually numerical) in a spreadsheet and then manipulate this data to produce certain results.

Alternatively, you can enter data and then use Calc in a “What if...” manner by changing some of the data and observing the results without having to retype the entire spreadsheet or sheet.

Other features provided by Calc include:

- Functions, which can be used to create formulas to perform complex calculations on data.
- Database functions, to arrange, store, and filter data.
- Dynamic charts, including a wide range of 2D and 3D charts.
- Macros, for recording and executing repetitive tasks; scripting languages supported include LibreOffice Basic, Python, BeanShell, and JavaScript.
- Ability to open, edit, and save Microsoft Excel spreadsheets.
- Import and export of spreadsheets in multiple formats, including HTML, CSV (without or with formulas), dBase, PDF, and PostScript.
- Collaborate with others seamlessly by sharing the spreadsheet.

Compatibility with other spreadsheet applications

Wildcards

Simple wildcards such as the asterisk (*), question mark (?), and tilde (~) from other spreadsheet applications are recognized by LibreOffice in formula expressions.

Formula syntax

By default, LibreOffice Calc uses its own formula syntax, referred to as Calc A1, rather than the Excel A1 syntax used by Microsoft Excel. LibreOffice will translate seamlessly between the two. However, if you are familiar with Excel you may wish to change the default syntax in Calc by going to **Tools > Options > LibreOffice Calc > Formula** and choosing **Excel A1** or **Excel R1C1** in the *Formula syntax* drop-down menu.

For more information on formula syntax, see Chapter 7, Using Formulas and Functions, in the *Calc Guide*.

Macros

Microsoft Office uses Visual Basic for Applications (VBA) code, and LibreOffice uses Basic code based on the LibreOffice API. Although the programming languages are the same, the objects and methods are different and therefore not entirely compatible.

LibreOffice can run some Excel Visual Basic scripts if you enable this feature at **Tools > Options > Load/Save > VBA Properties**.

If you want to use macros written in Microsoft Excel using the VBA macro code in LibreOffice, you must first edit the code in the LibreOffice Basic IDE editor.

For more information, refer to Chapter 12, Calc Macros, in the *Calc Guide*.

Spreadsheets, sheets, and cells

Calc works with documents called spreadsheets. Spreadsheets consist of a number of individual sheets, each sheet containing cells arranged in rows and columns. A particular cell is identified by its row number and column letter.

Cells hold the individual elements – text, numbers, formulas, and so on – that make up the data to display and manipulate.

Each spreadsheet can have up to 10,000 sheets, and each sheet can have a maximum of 1,048,576 rows and a maximum of 1024 columns.

Calc main window

When Calc is started, the main window opens (Figure 1). The parts of this window are described below. You can show or hide many of the parts as desired, using the View menu on the Menu bar.

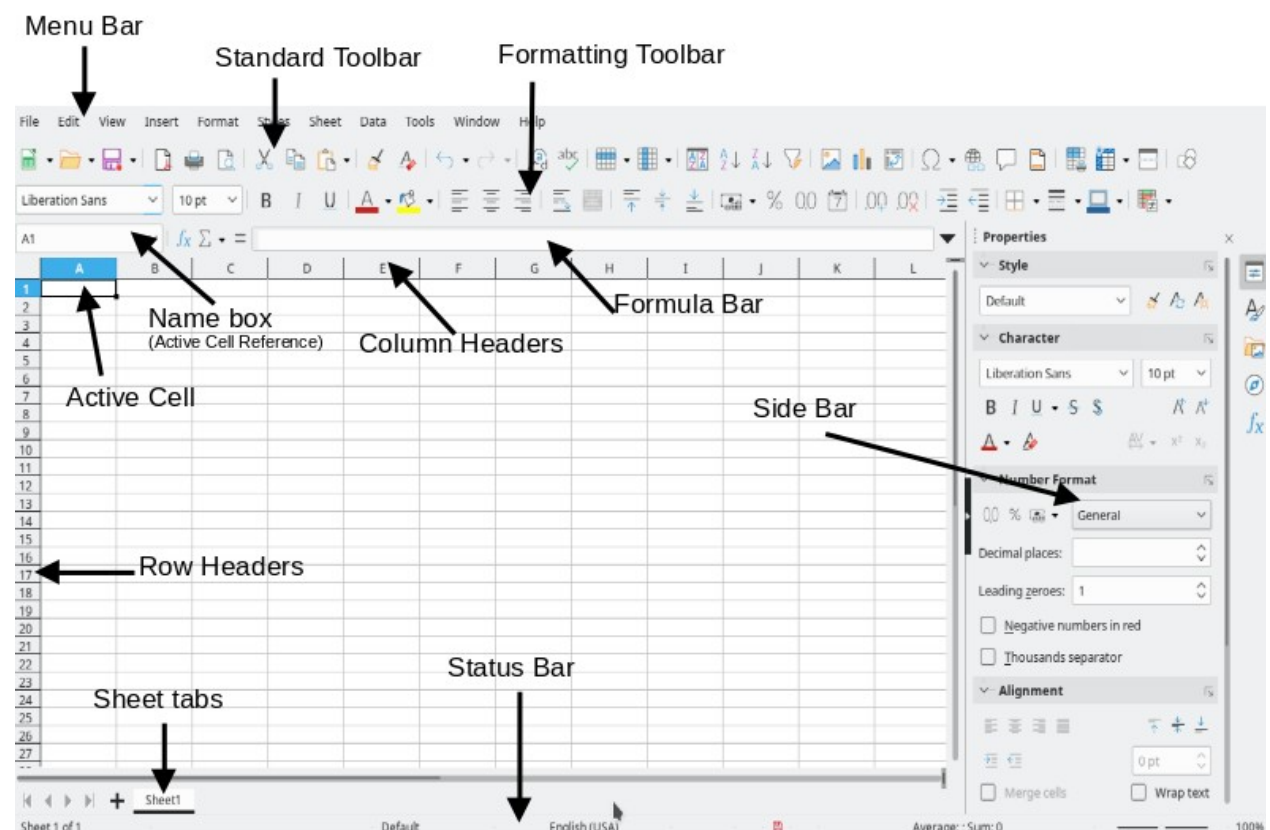


Figure 1: Calc main window

Title bar

The Title bar, located at the top, shows the name of the current spreadsheet. When a spreadsheet is newly created from a template or a blank document, its name is *Untitled X*, where X is a number. When you save a spreadsheet for the first time, you are prompted to enter a name of your choice.

Menu bar

Under the Title bar is the Menu bar. When you select one of the menu items, a sub-menu drops down to show commands. You can also customize the Menu bar; see Chapter 14, Customizing LibreOffice, for more information.

Most of the menus are similar to those in other components of LibreOffice, although the specific commands and tools may vary. The menus specific to Calc are Sheet and Data; in addition, several important data analysis tools are found in the Tools menu.

Sheet

The most often used commands for handling sheets, such as Insert and Delete Cells, Columns, Rows and Sheets; select Cell Reference Type; and Link to External Data.

Data

Commands for manipulating data in the spreadsheet; for example, Define Range, Sort, Filters, Statistics, Pivot Tables, Consolidate, Forms, Groups and Outlines.

Tools

Functions to help you check and customize the spreadsheet; for example, Spelling, Macros, Goal Seek, Solver, Scenarios, Detective, Protect Sheet, XML Filter Settings, and Extension Manager.

View

Two commands of particular interest on the Calc View menu are:

Value Highlighting (*Ctrl+F8*) – when active, Calc can show or hide cell contents in different colors, depending on type. The default colors can be customized in **Tools > Options > LibreOffice > Application Colors**.

Show Formula (*Ctrl+`*) – when active, Calc shows formulas instead of calculated results.

Toolbars

In a default LibreOffice installation, the top docked toolbar, just under the Menu bar, is called the Standard toolbar. It is consistent across the LibreOffice applications. The position and use of it and other toolbars are described in Chapter 1, *Introducing LibreOffice*.

Formula bar

The Formula Bar (Figure 2) is located at the top of the sheet in the Calc workspace. It is permanently docked in this position and cannot be used as a floating toolbar. However, it can be hidden or made visible by selecting or deselecting **View > Formula Bar** on the Menu bar.



Figure 2: Formula Bar

From left to right, the Formula Bar includes the following:

Name Box – gives the current active cell reference using a combination of a letter and number, for example A1. The letter indicates the column and the number indicates the row of the selected cell. If you have selected a range of cells that is also a named range, the name of the range is shown in this box. You can also type a cell reference in the *Name Box* to jump to the referenced cell. If you type the name of a named range and press the *Enter* key, the named range is selected and displayed.

Function Wizard – opens a dialog from which you can search through lists of available functions and formulas. This can be very useful because it also shows how the functions are formatted.

Select Function – this drop-down list provides five choices: **Sum**, **Average**, **Min**, **Max**, and **Count** (Figure 3).

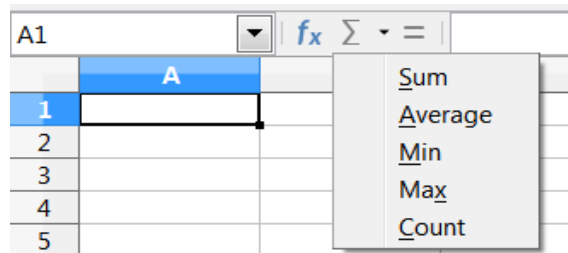


Figure 3: Select Function drop-down

Formula – inserts an equals (=) sign into the selected cell and the *Input line*, allowing a formula to be entered. The *Name Box* now displays a drop-down list of the most frequently used functions, for a quick access to the function name and syntax.

Input line – displays the contents of the selected cell (data, formula, or function) and allows you to edit the cell contents. To turn it into a multi-line input area for very long formulas, click the down arrow on the far right-hand end of the *Input line*.

You can also directly edit the contents of a cell by double-clicking on the cell. When you enter or edit data in a cell, the **Select Function** and **Formula** icons change to **Cancel** and **Accept** icons.

✓ Note

In a spreadsheet, the term “function” covers much more than just mathematical functions. See Chapter 7, Using Formulas and Functions, in the *Calc Guide* for more information.

Status bar

The Calc Status bar (Figures 4 and 5) provides information about the spreadsheet as well as quick and convenient ways to change some of its features. Most of the fields are similar to those in other components of LibreOffice. See Chapter 1, Introducing LibreOffice, for more information.



Figure 4: Calc Status bar (left)

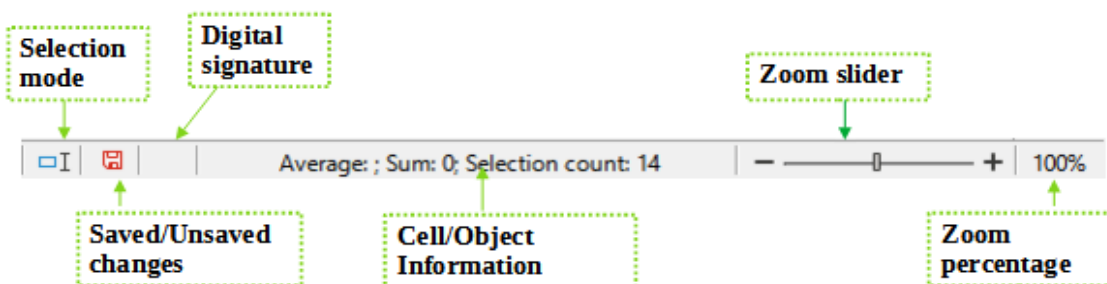


Figure 5: Calc Status bar (right)

The Status bar has a quick way to do some math operations on selected cells in the spreadsheet. You can view the calculated average and sum, count of elements, and more on the selection by right-clicking over the Cell/Object Information area and selecting the operations you want to display in the Status bar (Figure 6).

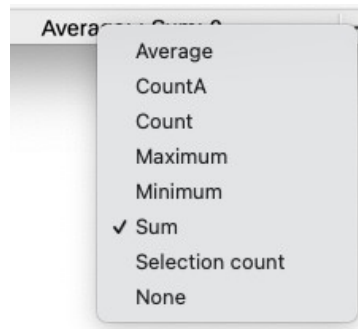


Figure 6: Selecting math operations to show on Status bar

Sidebar

The Calc Sidebar (**View > Sidebar** or *Ctrl+F5*) is located on the right side of the window. It is a mixture of toolbar and dialog. It is similar to the Sidebar in Writer (shown in Chapter 1 and Chapter 4 of this book) and consists of five decks: **Properties**, **Styles**, **Gallery**, **Navigator**, and **Functions**. Each deck has a corresponding icon on the Tab panel to the right of the sidebar, allowing you to switch between them. The decks are described below.

Properties

This deck includes five content panels. These panels, with the exception of the Style panel, have a **More Options** button that opens a dialog with additional options. These dialogs lock the document for editing until they are closed.

Style: Access to the available cell styles, update cell styles, and new cell styles.

Character: Controls for formatting the text, such as font family, size, and color. Some controls, such as superscript, become active only when the text cursor is active in the *Input line* of the Formula bar or the cell.

Number Format: Quickly change the format of numbers including decimals, currency, dates, percentage, or numeric text; and leading zeroes.

Alignment: Controls to align the text in various ways, including horizontal and vertical alignment, wrapping, indenting, merging, text orientation, and vertical stacking.

Cell Appearance: Controls to set the appearance of cells, including cell background color, cell border formats including line color and style, and grid lines.

Styles, Gallery, Navigator

These decks are similar to those in Writer. Their use is described in the *Calc Guide*.

Functions

This deck contains a list of functions organized by category. It is a simpler version of the Function Wizard, which is opened by selecting **Insert > Function** on the Menu bar, pressing the **Function Wizard** icon on the Formula Bar, or by pressing *Ctrl+F2*.

Spreadsheet layout

Individual cells

The main section of the workspace in Calc displays the cells in the form of a grid. Each cell is formed by the intersection of one column and one row in the spreadsheet.

At the top of the columns and the left of the rows are a series of header boxes containing letters and numbers. The column headers use an alpha character starting at A and go on to the right. The row headers use a numerical character starting at 1 and go down.

These column and row headers form the cell references that appear in the *Name Box* on the Formula Bar (Figure 2). If the headers are not visible on the spreadsheet, choose **View > View Headers** on the Menu bar.

Sheet tabs

Each Calc spreadsheet can contain multiple sheets. At the bottom of the grid of cells are sheet tabs indicating how many sheets are in the spreadsheet. By default, a new spreadsheet is created with one sheet named *Sheet1*. Click on a tab to display that sheet. An active sheet is indicated with a white tab (default Calc setup). You can also select multiple sheets by holding down the *Ctrl* key while clicking on the sheet tabs.

To change the default name for a sheet (*Sheet1*, *Sheet2*, and so on), right-click on a sheet tab and select **Rename Sheet** in the context menu, or double-click on the sheet tab, to open the Rename Sheet dialog where you can type a new name for the sheet.

To change the color of a sheet tab, right-click on the tab and select **Tab Color** in the context menu to open the Tab Color dialog. Select a color and click **OK**. To add new colors to this color palette, see Chapter 14, Customizing LibreOffice.

Opening a CSV file

Comma-separated values (CSV) files are spreadsheet files in a text format where cell contents are separated by a character, for example a comma or semicolon or any other character like vertical bar. Each line in a CSV text file represents a row in a spreadsheet. Text is entered between quotation marks; numbers are entered without quotation marks. It treats data as a formula if the column value begins with an equal sign (=).

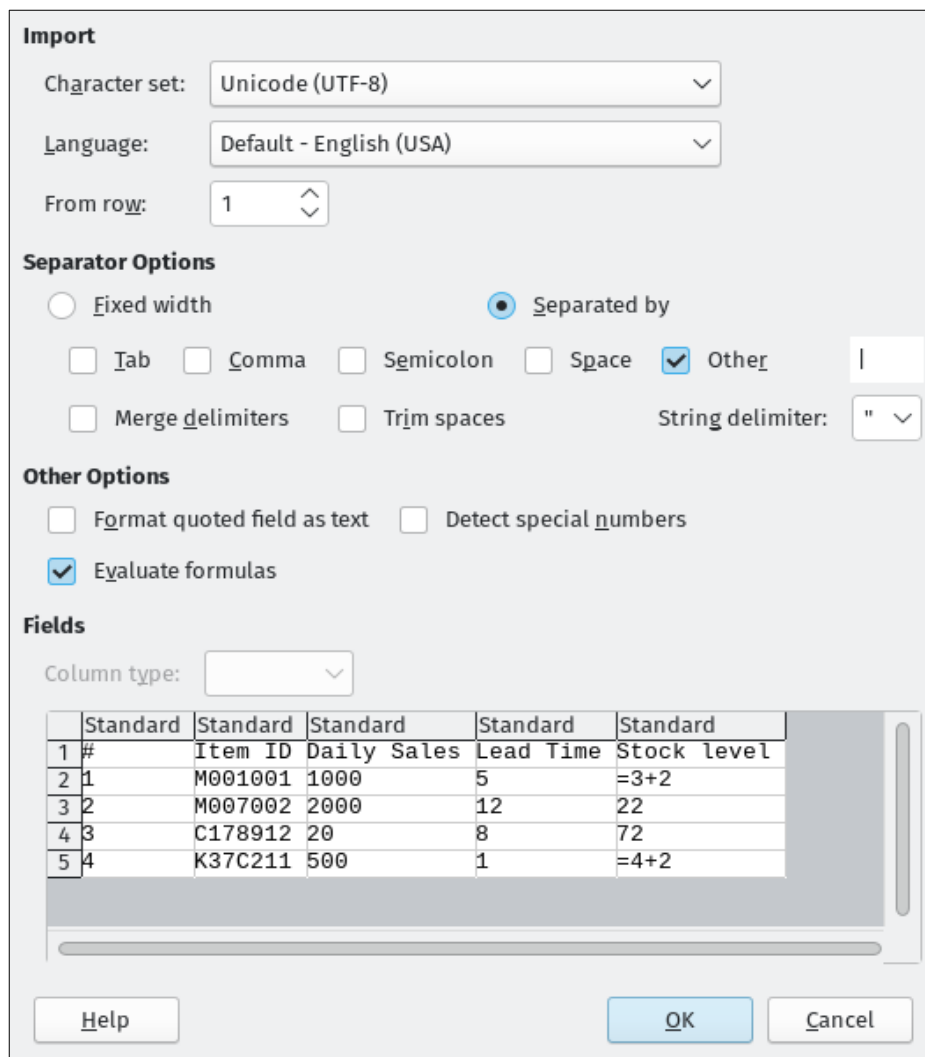


Figure 7: Text Import dialog

✓ Note

Most CSV files come from database tables, queries, or reports, where further calculations and charting are required.

To open a CSV file in Calc:

- 1) Choose **File > Open** on the Menu bar and locate the CSV file. Most CSV files have the extension .csv. However, some CSV files may have a .txt extension.
- 2) Select the file and click **Open**.
- 3) On the Text Import dialog (Figure 7), select the required options for importing the CSV file into the Calc spreadsheet. For details about these options, see Chapter 1, Introducing Calc, in the *Calc Guide*.
- 4) Click **OK** to import the file.

Saving spreadsheets

For information on how to save files manually or automatically, see Chapter 1, Introducing LibreOffice. Calc can save spreadsheets in a range of formats and also export spreadsheets to PDF, HTML, XHTML file formats and JPEG and PNG images formats; see Chapter 6, Printing, Exporting, E-mailing, and Signing, in the *Calc Guide* for more information.

Saving in other spreadsheet formats

You can save a spreadsheet in another format:

- 1) Save the spreadsheet in Calc spreadsheet file format (*.ods).
- 2) Select **File > Save As** on the Menu bar to open the Save As dialog.
- 3) In the *File name* field, you can enter a new file name for the spreadsheet.
- 4) In the *File type* drop-down list, select the type of spreadsheet format you want to use.
- 5) If **Automatic file name extension** is present and selected, the correct file extension for the spreadsheet format you have selected will be added to the file name.
- 6) Click **Save**.

When a spreadsheet file is saved in a format other than .ods, the Confirm File Format dialog opens (Figure 8). Click **Use [xxx] Format** to continue saving in your selected spreadsheet format or click **Use ODF Format** to save the spreadsheet in Calc .ods format. If you uncheck *Ask when saving in ODF or default format*, this dialog no longer appears when saving in another format.

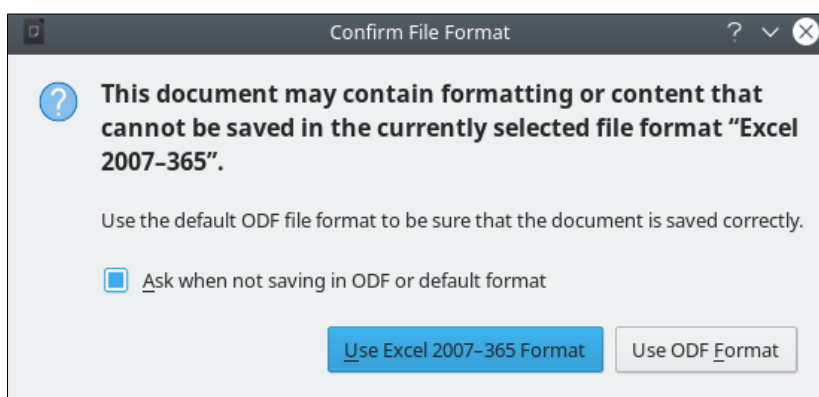


Figure 8: Confirm File Format dialog

If you select **Text CSV format (*.csv)** for your spreadsheet, the Export Text File dialog (Figure 9) opens. Here you can select the character set, field delimiter, string (text) delimiter, and so on to be used for the CSV file.

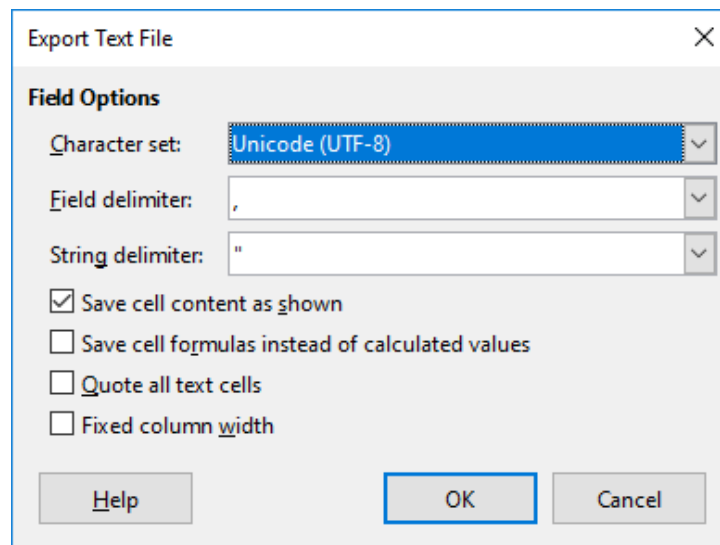


Figure 9: Export Text File dialog for CSV files

✓ Note

Once you have saved a spreadsheet in another format, all changes you make to the spreadsheet will now occur only in the format you are using. If you want to go back to working with a *.ods version, you must save the file as a *.ods file.

i Tip

To have Calc save spreadsheets by default in a file format other than .ods, go to **Tools > Options > Load/Save > General**. In the *Default File Format and ODF Settings* area, select **Spreadsheet** in *Document type*, then in *Always save as*, select your preferred file format.

Exporting values and formulas as a CSV file

Calc can export raw data and calculated data as a CSV file. An example of data for export is shown in Figure 10, and the resulting CSV file is shown in Figure 11.

The steps to export are:

- 1) Click the sheet to be written as a CSV file.
- 2) Choose **Tools > Options > LibreOffice Calc > View** on the Menu bar.
- 3) Under *Display*, mark the Formulas check box. Click **OK**.
- 4) Choose **File > Save as**.
- 5) On the Save as dialog, select **Text CSV** in the File type field.
- 6) Enter a filename and click **Save**.
- 7) From the Export of text files dialog that appears, select the character set and the field and text delimiters for the data to be exported, and confirm with **OK**.

ID	First Name	Last Name	Full Name	Number
1002	Mary	Alexander	=CONCATENATE(B2," ",C2)	739-495-8304
1005	Steve	Bacon	=CONCATENATE(B3," ",C3)	379-663-8918
1003	Patrice	Budreau	=CONCATENATE(B4," ",C4)	290-635-0135
1010	Jose	Gonzalez	=CONCATENATE(B5," ",C5)	278-270-8386
1001	Krishna	Gupta	=CONCATENATE(B6," ",C6)	943-583-8274
1006	Vicky	Li	=CONCATENATE(B7," ",C7)	190-544-9208
1004	Rose	Mokoro	=CONCATENATE(B8," ",C8)	603-883-8313
1009	Trinh	Nguven	=CONCATENATE(B9," ",C9)	573-861-0905

Figure 10: Exporting raw and calculated values

1	"ID", "First Name", "Last Name", "Full Name", "Number"
2	1002, "Mary", "Alexander", "=CONCATENATE (B2, C2) ", "739-495-8304"
3	1005, "Steve", "Bacon", "=CONCATENATE (B3, C3) ", "379-663-8918"
4	1003, "Patrice", "Budreau", "=CONCATENATE (B4, C4) ", "290-635-0135"
5	1010, "Jose", "Gonzalez", "=CONCATENATE (B5, C5) ", "278-270-8386"
6	1001, "Krishna", "Gupta", "=CONCATENATE (B6, C6) ", "943-583-8274"
7	1006, "Vicky", "Li", "=CONCATENATE (B7, C7) ", "190-544-9208"
8	1004, "Rose", "Mokoro", "=CONCATENATE (B8, C8) ", "603-883-8313"
9	1009, "Trinh", "Nguven", "=CONCATENATE (B9, C9) ", "573-861-0905"

Figure 11: CSV file containing raw and calculated values

Exporting contents as an image

To send a fragment of a spreadsheet to someone or publish it on the Internet, you can export a range selection or a selected group of shapes (images) to a PNG or JPG graphics format:

- 1) Select the cell range or the group of shapes, then select **File > Export**.
- 2) In the Export dialog, type a name for the image, select the graphics file format, and mark the **Selection** checkbox.
- 3) Click **Export** or **Save**, as appropriate.

Calc may open a further dialog for you to configure the settings associated with the selected graphics format.

Exporting a whole sheet as one page

Calc can export the entire contents of a sheet as a PDF in one page. It is easier to preview the contents on one page to understand if it requires any changes.

The steps to export the contents to one page:

- 1) From the Menu bar, select **File > Export as PDF**.
- 2) On the General tab of the PDF options dialog (Figure 12), select the option **Whole sheet export**.
- 3) Click the **Export** button, and choose a location for the PDF.

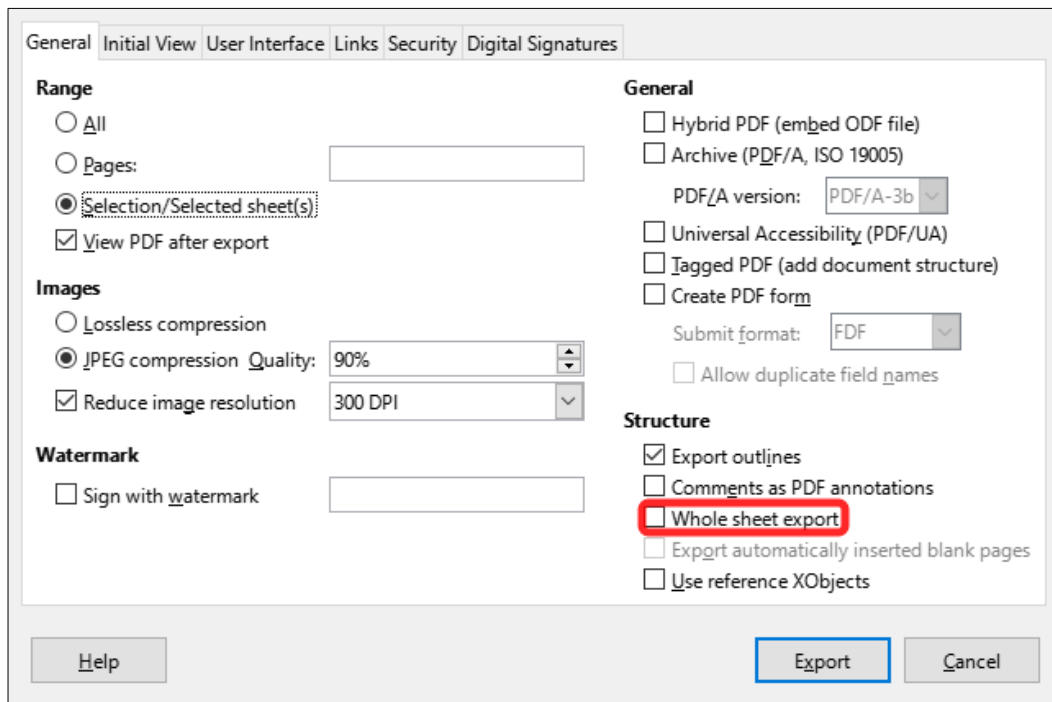


Figure 12: Exporting sheets to PDF as one page

Importing external data – Web Query

Calc can import data using web query by linking to an external data source. You can filter or choose the table to import by HTML caption:

- 1) Position the cursor in the cell where you want the new content to be imported.
- 2) Choose **Sheet > Link to External Data** to open the External Data dialog (Figure 13).
- 3) Enter the URL of the HTML document or the name of the spreadsheet, then press *Enter*. You can also click the **Browse** button to open a file selection dialog.
- 4) In the *Available Tables/Ranges* list box, select the named ranges or tables you want to insert. You can also specify that the ranges or tables are updated every n seconds. These tables are now listed in the order they appear in the source.
- 5) Click **OK** to finish.

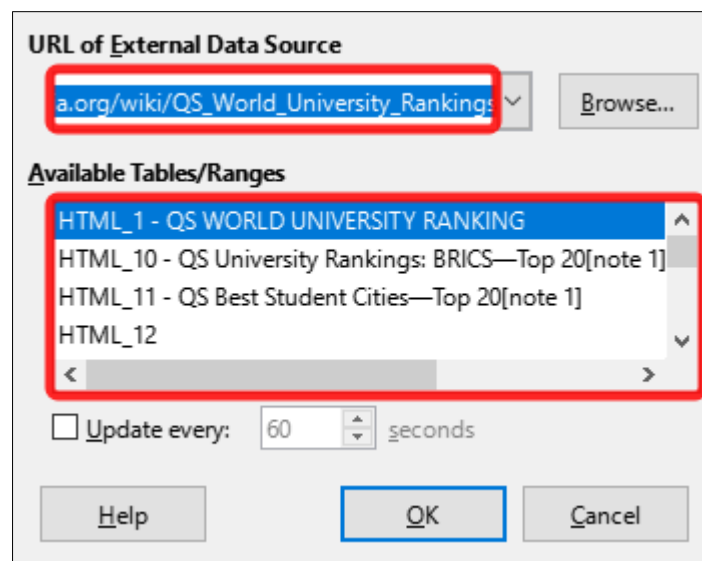


Figure 13: Link to external data

Navigating within spreadsheets

Calc provides many ways to navigate within a spreadsheet from cell to cell and sheet to sheet. You can generally use the method you prefer.

Cell navigation

When a cell is selected or in focus, the cell borders are emphasized. When a group of cells is selected, the cell area is colored. The color of the cell border emphasis and the color of a group of selected cells depends on the operating system being used and how you have set up LibreOffice.

Mouse: place the mouse pointer over the cell and click the left mouse button.

Cell reference: delete the existing cell reference in the *Name Box* on the Formula Bar (Figure 2 on page 8). Type the new cell reference and press *Enter*. Cell references are case-insensitive.

Navigator: press *F5* to open the Navigator (Figure 14) or click the **Navigator** button on the Sidebar. Type the cell reference into the *Column* and *Row* fields, or use the adjacent increment / decrement buttons, and press *Enter*.

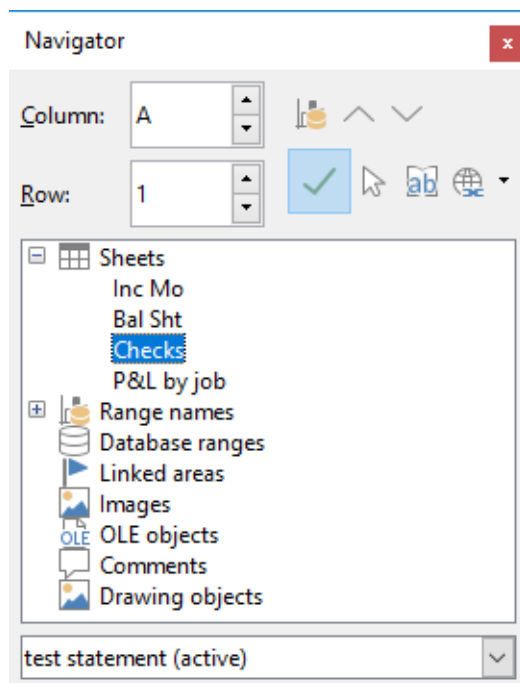


Figure 14: Calc Navigator

Enter key: moves the cell focus down in a column to the next row. *Shift+Enter* moves the focus up in a column to the previous row. You can change the action of the *Enter* key; see “Customizing the Enter key” on page 18.

Tab key: moves the cell focus right in a row to the next column. *Shift+Tab* moves the focus to the left in a row to the previous column.

Arrow keys: the arrow keys on the keyboard move the cell focus in the direction of the arrow pressed.

Home, End, Page Up, and Page Down keys:

- *Home* moves the cell focus to the start of a row.
- *End* moves the cell focus to the last cell on the right in the row in the right-most column that contains data.

- *Page Down* moves the cell focus down one complete screen display.
- *Page Up* moves the cell focus up one complete screen display.

Sheet navigation

Each sheet in a spreadsheet is independent of the other sheets, though references can be linked from one sheet to another. To navigate between sheets in a spreadsheet:

Navigator – double-click on any of the listed sheets to select the sheet.

Keyboard – *Ctrl+Page Down* moves one sheet to the right and *Ctrl+Page Up* moves one sheet to the left.

Mouse – click on a sheet tab at the bottom of the spreadsheet to select that sheet.

If your spreadsheet contains a lot of sheets, then some of the sheet tabs may be hidden. If this is the case:

- Using the four buttons to the left of the sheet tabs can move the tabs into view (Figure 15).
- Right-clicking on any of the arrows, or the +, opens a context menu where you can select a sheet (Figure 16).

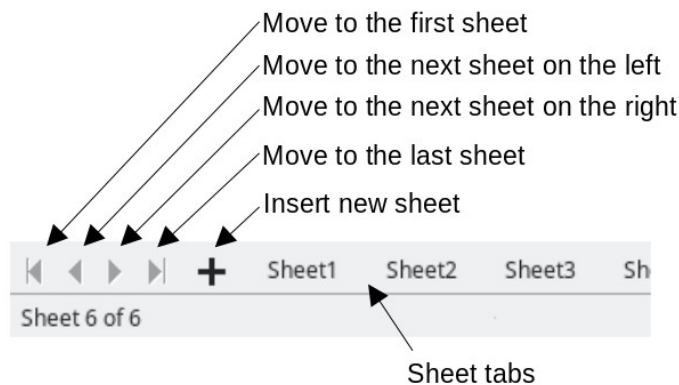


Figure 15: Navigating sheet tabs

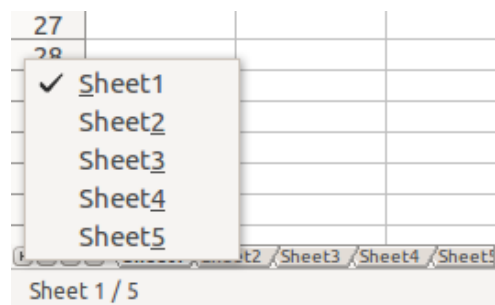


Figure 16: Right-click any active arrow button

✓ Note

When you insert a new sheet into a spreadsheet, Calc automatically uses the next number in the numeric sequence as a name. Depending on which sheet is open when you insert a new sheet, the new sheet may not be in its correct numerical position. It is recommended to rename sheets in a spreadsheet to make them more recognizable.

Keyboard navigation

You can navigate a spreadsheet using the keyboard, by pressing a key or a combination of keys. See Chapter 1, Introduction, and Appendix A, Keyboard Shortcuts, in the *Calc Guide* for the keys and key combinations you can use for spreadsheet navigation in Calc.

Customizing the Enter key

You can choose the direction in which the *Enter* key moves the cell focus by going to **Tools > Options > LibreOffice Calc > General**. Use the first two options under *Input Settings* (Figure 17) to change the *Enter* key settings.

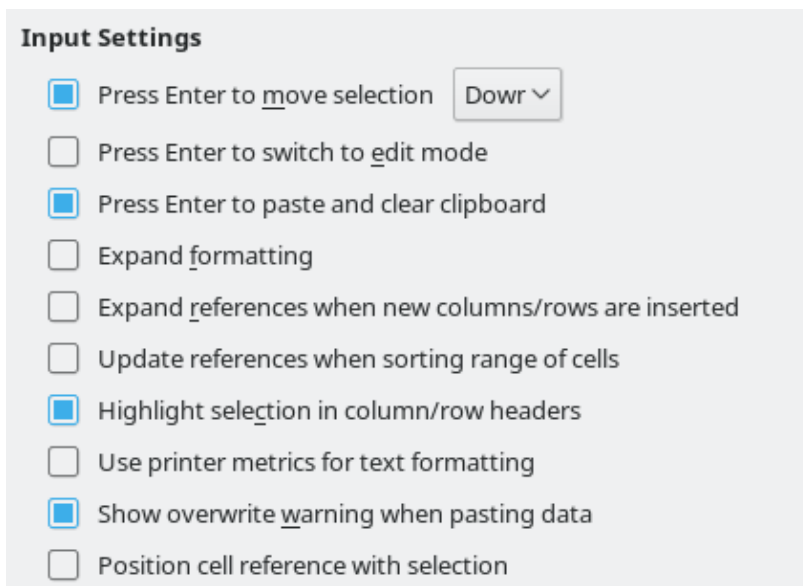


Figure 17: Customizing the Enter key

Select the direction cell focus moves from the drop-down list. The *Enter* key can also be used to switch into and out of editing mode. You can enable or disable the use of *Enter* to paste the content of a cell that has been copied to the clipboard.

Selecting items in a spreadsheet

Selecting cells

Single cell

Click in the cell. You can verify your selection by looking in the *Name Box* on the Formula Bar (Figure 2 on page 8).

Range of contiguous cells

A range of cells can be selected using the keyboard or the mouse.

To select a range of cells by dragging the mouse cursor:

- 1) Click in a cell.
- 2) Press and hold down the left mouse button.
- 3) Move the mouse to highlight the desired block of cells, then release the mouse button.

To select a range of cells without dragging the mouse:

- 1) Click in the cell that is to be one corner of the range of cells.
- 2) Hold down the *Shift* key and click in the opposite corner cell of the block of cells.

Tip

You can also select a contiguous range of cells by first clicking in the Selection mode field on the Status bar (Figure 5 on page 9) and selecting **Extending selection** before clicking in the opposite corner of the range of cells. Make sure to change back to **Standard selection** or you may extend a cell selection unintentionally.

To select a range of cells without using the mouse:

- 1) Select the cell that will be one of the corners in the range of cells.
- 2) While holding down the *Shift* key, use the cursor arrows to select the rest of the range.

Tip

You can also directly select a range of cells using the *Name Box*. Click in the *Name Box* on the Formula Bar (Figure 2 on page 8). Enter the cell reference for the upper left-hand cell, followed by a colon (:), and then the lower right-hand cell reference. For example, to select the range that would go from A3 to C6, you would enter A3:C6.

Range of non-contiguous cells

- 1) Select the cell or range of cells using one of the methods above.
- 2) Move the mouse pointer to the start of the next range or single cell.
- 3) Hold down the *Ctrl* key and click or click-and-drag to select another range of cells to add to the first range.
- 4) Repeat as necessary.

Selecting columns and rows

Single column or row

To select a single column, click on the column header (Figure 1 on page 7). To select a single row, click on the row header.

Multiple columns or rows

To select multiple columns or rows that are contiguous:

- 1) Click on the first column or row in the group.
- 2) Hold down the *Shift* key.
- 3) Click the last column or row in the group.

To select multiple columns or rows that are not contiguous:

- 1) Click on the first column or row in the group.
- 2) Hold down the *Ctrl* key.
- 3) Click on all of the subsequent columns or rows while holding down the *Ctrl* key.

Entire sheet

To select the entire sheet, click on the corner box between the column header A and the row header 1 (Figure 18), or use the key combination *Ctrl+Shift+Space* to select the entire sheet, or use **Edit > Select All** on the Menu bar.

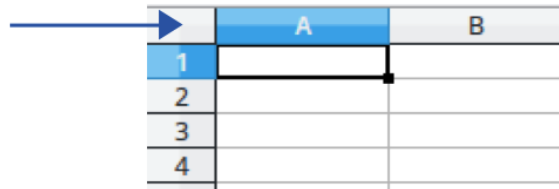


Figure 18: Select All box

Selecting sheets

You can select one or multiple sheets in Calc. It can be advantageous to select multiple sheets, especially when you want to make changes to many sheets at once.

Single sheet

Click on the sheet tab for the sheet you want to select. The tab for the selected sheet becomes white (default Calc setup).

Multiple contiguous sheets

To select multiple contiguous sheets:

- 1) Click on the sheet tab for the first desired sheet.
- 2) Hold down the *Shift* key and click on the sheet tab for the last desired sheet.
- 3) All tabs between these two selections will turn white (default Calc setup). Any actions that you perform will now affect all the highlighted sheets.

Multiple non-contiguous sheets

To select multiple non-contiguous sheets:

- 1) Click on the sheet tab for the first desired sheet.
- 2) Hold down the *Ctrl* key and click on the sheet tab for the each additional desired sheet.
- 3) The selected tabs will turn white (default Calc setup).

All sheets

Right-click a sheet tab and choose **Select All Sheets** in the context menu, or select **Edit > Select > Select All Sheets** on the Menu bar.

Working with columns and rows

Inserting columns and rows

Single column or row

Using the Sheet menu:

- 1) Select a cell, 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**.

Using the mouse:

- 1) Select a column or row where you want the new column or row inserted.
- 2) Right-click the column or row header.
- 3) Select **Insert Columns Before**, **Insert Columns After**, **Insert Rows Above**, or **Insert Rows Below** in the context menu.

Multiple columns or rows

Multiple columns or rows can be inserted at once rather than inserting them one at a time.

- 1) Highlight the required number of columns or rows by holding down the left mouse button on the first one and then dragging across the required number of identifiers.
- 2) Proceed as for inserting a single column or row above.

Hiding and showing columns and rows

To hide columns or rows:

- 1) Select the row or column you want to hide.
- 2) Go to **Format** on the Menu bar and select **Rows** or **Columns**.
- 3) Select **Hide** in the submenu. Alternatively, right-click on the row or column header and select **Hide Rows** or **Hide Columns** in the context menu.

To show hidden columns or rows:

- 1) Select the rows or columns on each side of the hidden row or column.
- 2) Go to **Format** on the Menu bar and select **Rows** or **Columns**.
- 3) Select **Show** in the submenu. Alternatively, right-click on a row or column header and select **Show Rows** or **Show Columns** in the context menu.

Deleting columns or rows

- 1) Select the columns or rows you want to delete.
- 2) Go to **Sheet** on the Menu bar and select **Delete Rows** or **Delete Columns**, or right-click on the column or row header 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 from the Delete Cells dialog (Figure 19) and click **OK**.

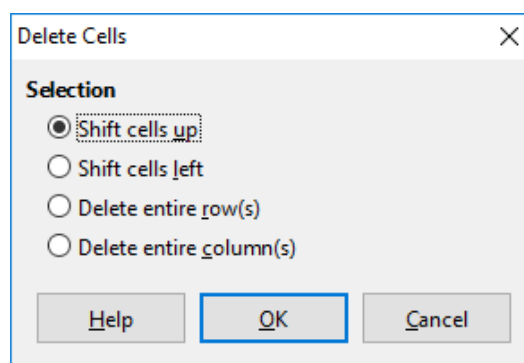


Figure 19: Delete Cells dialog

Working with sheets

Inserting new sheets

Click on the **Add Sheet (+)** icon next to the sheet tabs to insert a new sheet after the last sheet in the spreadsheet without opening the Insert Sheet dialog.

The following methods open the Insert Sheet dialog (Figure 20), where you can position the new sheet, create more than one sheet, name the new sheet, or select a sheet from a file.

- Select the sheet where you want to insert a new sheet, then go to **Sheet > Insert Sheet** on the Menu bar.
- Right-click on the sheet tab where you want to insert a new sheet and select **Insert Sheet** in the context menu.
- Click in the empty space at the end of the sheet tabs.
- Right-click in the empty space at the end of the sheet tabs and select **Insert Sheet** in the context menu.

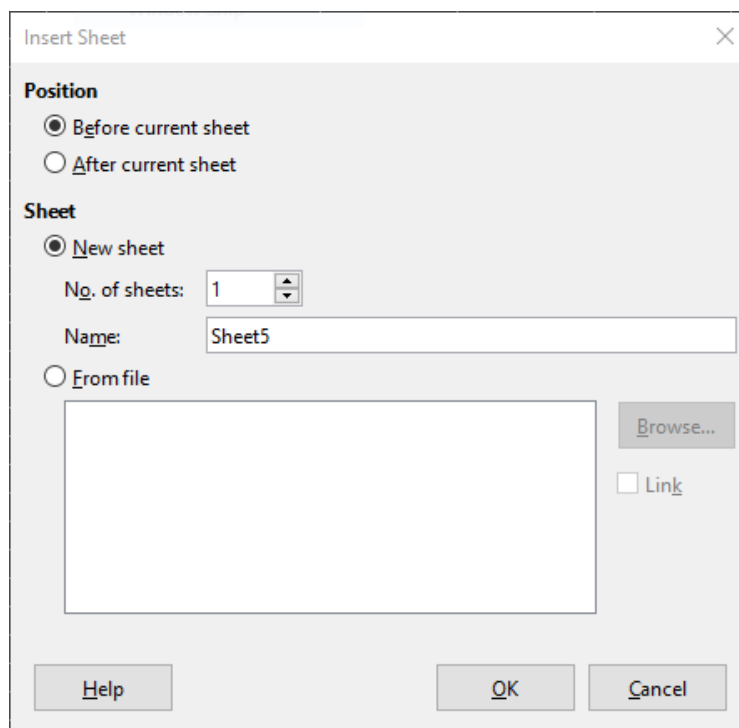


Figure 20: Insert Sheet dialog

Moving and copying sheets

You can move or copy sheets within the same spreadsheet by dragging and dropping, or by using the Move/Copy Sheet dialog. To move or copy a sheet into a different spreadsheet, you have to use the Move/Copy Sheet dialog.

In the Move/Copy Sheet dialog (Figure 21), you can specify exactly whether you want the sheet in the same or a different spreadsheet, its position within the spreadsheet, and the sheet name when you move or copy it.

- 1) In the current document, right-click on the sheet tab you wish to move or copy and select **Move or Copy Sheet** in the context menu, or go to **Sheet > Move or Copy Sheet** on the Menu bar.
- 2) In the *Action* area, select **Move** to move the sheet or **Copy** to copy the sheet.

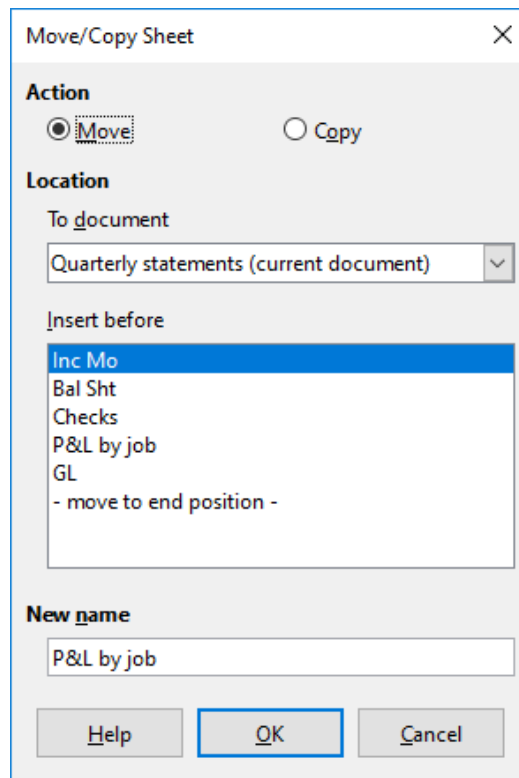


Figure 21: Move/Copy Sheet dialog

- 3) Select the spreadsheet where you want the sheet to be placed in the drop-down list in *To document*. This can be the same spreadsheet, another spreadsheet already open, or a new spreadsheet.
- 4) Select the position in *Insert before* where you want to place the sheet.
- 5) Type a name in the *New name* box if you want to rename the sheet when it is moved or copied. If you do not enter a name, Calc creates a default name (Sheet2, Sheet3, ...).
- 6) Click **OK** to confirm the move or copy and close the dialog.

Caution

When you move or copy to another spreadsheet or a new spreadsheet, a conflict may occur with formulas linked to other sheets in the previous location.

Hiding and showing sheets

Sometimes you may want to hide the contents of a sheet to preserve data from accidental editing or because its contents are not important to display.

To hide a sheet or many sheets, select the sheet or sheets as above, right-click to open the context menu, and select **Hide Sheet**.

To show hidden sheets, right-click any sheet tab and select **Show Sheet** in the context menu. A dialog will open with all hidden sheets listed. Select the desired sheets and then click **OK**. It is not possible to hide the last visible sheet.

For more information on how to hide and show data, including how to use outline groups and filtering, see Chapter 2, Entering, Editing, and Formatting Data, in the *Calc Guide*.

✓ Note

Hidden elements are neither visible on a computer display nor printed when a spreadsheet is printed. However, they can still be selected for copying if you select the elements around them. For example, if column B is hidden, it is copied when you select columns A to C. When you require a hidden element again, you can reverse the process and show the element.

Renaming sheets

By default, the name for each new sheet added is SheetX, where X is the sequential number of the next sheet to be added. While this works for a small spreadsheet with only a few sheets, it can become difficult to identify each one when a spreadsheet contains many sheets.

To rename a sheet, use one of these methods:

- Enter the name in the *Name* text box when you create the sheet using the Insert Sheet dialog (Figure 20 on page 22).
- Right-click on a sheet tab and select **Rename Sheet** in the context menu to replace the existing name with a different one.
- Double-click on a sheet tab to open the Rename Sheet dialog.

✓ Note

Sheet names must start with either a letter or a number; other characters, including spaces, are not allowed. Apart from the first character of the sheet name, permitted characters are letters, numbers, spaces, and the underscore character. Attempting to rename a sheet with an invalid name will produce an error message.

Deleting sheets

To delete a single sheet, right-click on the sheet tab you want to delete and select **Delete Sheet** in the context menu, or go to **Sheet > Delete Sheet** on the Menu bar. Click **Yes** to confirm the deletion.

To delete multiple sheets, select the sheets (see “Selecting sheets” on page 20), then right-click on one of the sheet tabs and select **Delete Sheet** in the context menu, or go to **Sheet > Delete Sheet** on the Menu bar. Click **Yes** to confirm the deletion.

Viewing a spreadsheet

Changing document view

Use the zoom function (**View > Zoom**) to show more or fewer cells in the window when you are working on a spreadsheet. For more about zoom, see Chapter 1, Introducing LibreOffice.

Freezing rows and columns

Freezing is used to lock rows across the top of a spreadsheet or to lock columns on the left of a spreadsheet. Then, when moving around within a sheet, the cells in frozen rows and columns remain in view.

Figure 22 shows some frozen rows and columns. The heavier horizontal line between rows 3 and 23 and the heavier vertical line between columns F and Q indicate that rows 1 to 3 and columns A to F are frozen. The rows between 3 and 23 and the columns between F and Q have been scrolled off the page.

	A	B	C	D	E	F	Q	R
1		Date	Sales Value	Category	Region	Employee		
2		04/13/08	\$498	Sailing	North	Kurt		
3		02/07/08	\$1,383	Sailing	South	Kurt		
23		03/27/08	\$669	Sailing	South	Hans		
24		01/28/08	\$155	Sailing	West	Brigitte		

Figure 22: Frozen rows and columns

Often the first row and column contain headings, which you may wish to be visible when scrolling through a long or wide spreadsheet. To quickly freeze either or both of these, use the **Freeze Rows and Columns** icon on the Standard toolbar for both, or the commands in the drop-down menu of the **Freeze Rows and Columns** icon: **Freeze First Row** and **Freeze First Column** for one of them.

To freeze *either* rows or columns (single or multiple):

- 1) Click on the row header *below* the rows you want the freeze or click on the column header to the *right* of the columns where you want the freeze.
- 2) Right-click and choose **Freeze Rows and Columns** in the context menu, or choose **View > Freeze Rows and Columns** on the Menu bar, or click the **Freeze Rows and Columns** icon on the Standard toolbar.

To freeze *both* rows and columns (single or multiple):

- 1) Click in the cell that is immediately below the rows you want to freeze and immediately to the right of the columns you want frozen.
- 2) Choose **View > Freeze Rows and Columns** on the Menu bar, or click the **Freeze Rows and Columns** icon on the Standard toolbar.

Unfreezing

To unfreeze rows or columns, either use **View > Freeze Rows and Columns** on the Menu bar, or click on the **Freeze Rows and Columns** icon on the Standard toolbar. The heavier lines indicating freezing will disappear.

Splitting the screen

Another way to change the view is by splitting the screen your spreadsheet is displayed in (also known as splitting the window). The screen can be split horizontally, vertically, or both, giving you up to four portions of the spreadsheet in view at one time. An example of splitting the screen is shown in Figure 23, where a split is indicated by additional window borders within the sheet.

This could be useful, for example, when a large spreadsheet has one cell containing a number that is used by three formulas in other cells. By splitting the screen, you can position the cell containing the number in one section of the view and the cells with formulas in other sections. This makes it easy to see how changing the number in one cell affects each of the formulas.

	A	B	C
1		Beta=	3.2
2		A0=	0.1
7	A1=	Beta*A0*(1*A0)	0.6421
8	A2=	Beta*A1*(1*A0)	0.6582
9	A3=	Beta*A0*(1*A0)	0.7219
10	A4=	Beta*A0*(1*A0)	0.6574
11	A5=	Beta*A0*(1*A0)	0.6597
12			

Figure 23: Split screen example

Splitting horizontally or vertically

There are two ways to split a screen horizontally or vertically.

Method 1

To split *either* horizontally or vertically:

- 1) Click on the row header *below* the rows where you want to split the screen horizontally or click on the column header to the *right* of the columns where you want to split the screen vertically.
- 2) Right-click and choose **Split Window** in the context menu, or choose **View > Split Window** on the Menu bar. Window borders appear between the rows or columns indicating where the split has been placed, as shown in Figure 23.

To split *both* horizontally and vertically at the same time:

- 1) Click in the cell that is immediately below the rows where you want to split the screen horizontally and immediately to the right of the columns where you want to split the screen vertically.
- 2) Choose **View > Split Window** on the Menu bar.

Method 2

For a *horizontal* split, click on the thick black line at the top of the vertical scroll bar (Figure 24) and drag the split line below the row where you want the horizontal split positioned.

Similarly, for a *vertical* split, click on the thick black line at the right of the horizontal scroll bar and drag the split line to the right of the column where you want the vertical split positioned.

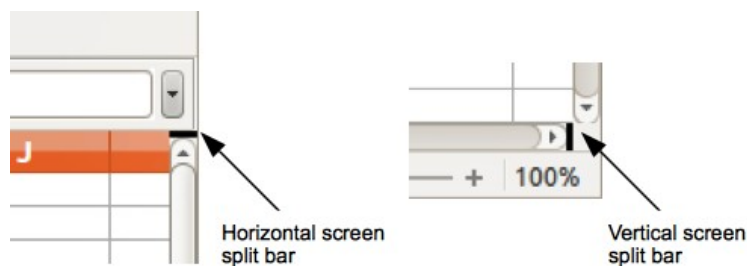


Figure 24. Split screen bars

Removing split views

To remove a split view, do one of the following:

- Double-click on each split line.
- Click and drag the split lines back to their default positions at the ends of the scroll bars.
- Go to **View** on the Menu bar and deselect **Split Window**.
- Right-click on a column or row heading and deselect **Split Window** in the context menu.

Entering data using the keyboard

Most data entry in Calc can be done using the keyboard.

Numbers

Click in the cell and type the number using the number keys on either the main keyboard or the numeric keypad. By default, numbers are right-aligned in a cell.

Negative numbers

To enter a negative number, either type a minus (-) sign in front of the number or enclose the number in parentheses, for example (1234). The result for both methods of entry will be the same; in this example, -1234.

Leading zeroes

If a number is entered with leading zeroes, for example 01481, by default Calc will drop the leading zero. To retain a minimum number of characters in a cell when entering numbers and retain the number format, for example 1234 and 0012, use one of these methods to add leading zeroes.

Method 1

- 1) With the cell selected, right-click on the cell, select **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 (Figure 25). Make sure the *Numbers* tab is selected, then select **Number** in the *Category* list.
- 2) In the *Leading zeroes* field within the *Options* area, enter the minimum number of characters required. For example, for four characters, enter 4. Any number less than four characters will have leading zeroes added, for example 12 becomes 0012.
- 3) Click **OK**. The number entered retains its number format and any formula used in the spreadsheet will treat the entry as a number in formula functions.

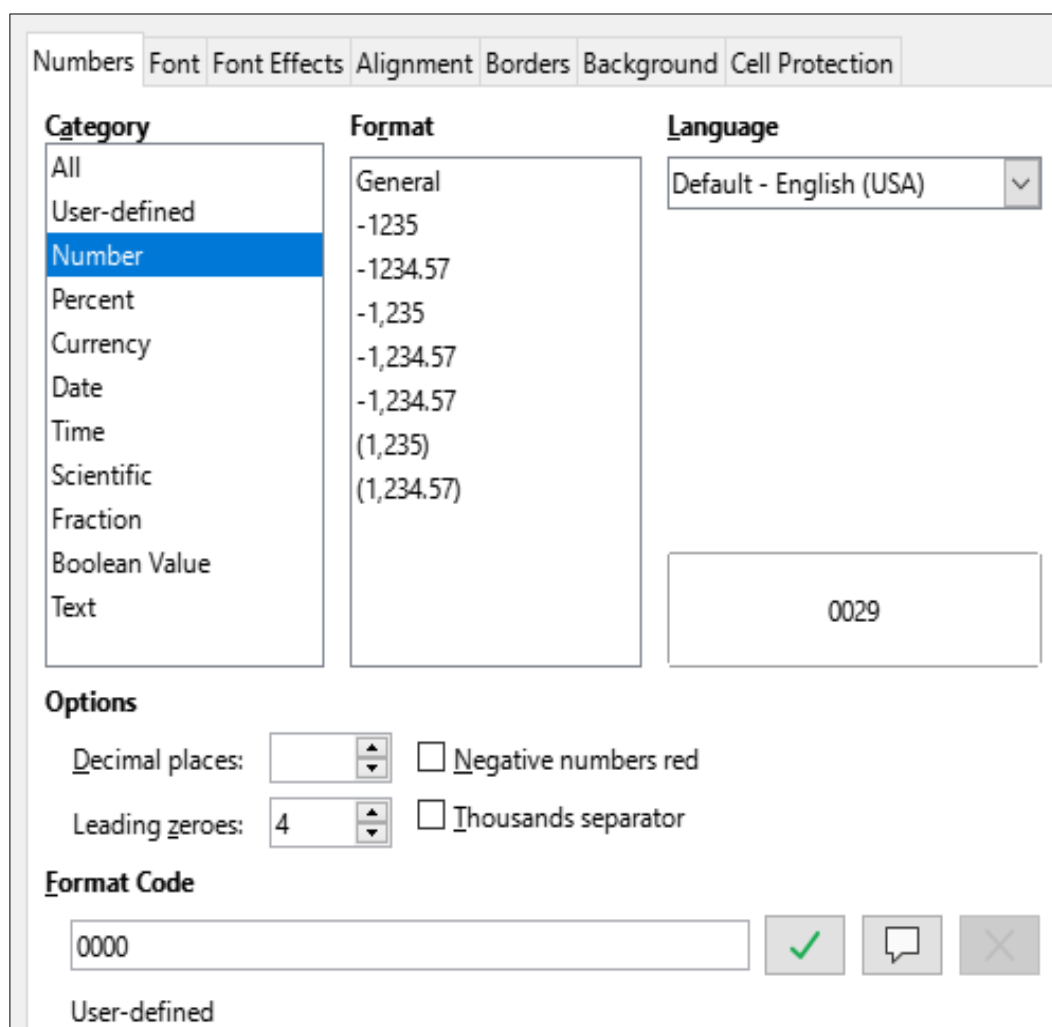


Figure 25: Format Cells dialog – Numbers tab

Method 2

- 1) Select the cell.
- 2) On the Sidebar, go to the Properties deck.
- 3) In the *Number Format* panel (Figure 26), select **Number** in the drop-down list, and enter 4 in the *Leading zeroes* box. Formatting is applied immediately.

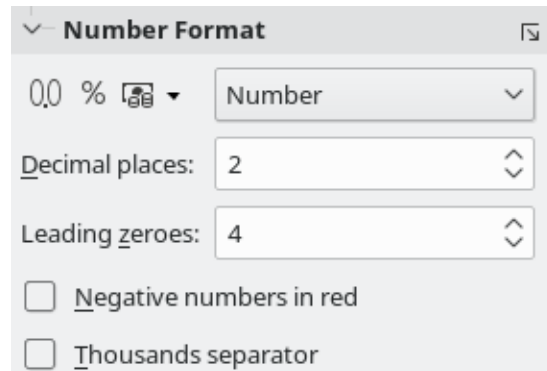


Figure 26: Set leading zeroes in Sidebar

i Tip

To format numbers with only decimal places, but without a leading zero (for example, .019 instead of 0.019), type a . (period or full stop) followed by ? (question mark) in the *Format code* box (Figure 25), to represent the number of decimal places required. For example, for 3 decimal places, type .??? and click **OK**. Any number with only decimal places will then have no leading zero.

i Tip

If numerical characters do not need to be treated as numbers in calculations (for example when entering zip codes), you can type an apostrophe (') before the number, for example '01481. When you move the cell focus, the apostrophe is removed, the leading zeroes are retained, and the number is converted to left-aligned text.

Numbers as text

Numbers can also be entered as text using one of the following methods.

Method 1

- 1) With the cell selected, right-click on the cell and select **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 (Figure 25).
- 2) Make sure the *Numbers* tab is selected, then select **Text** in the Category list.
- 3) Click **OK**. The number is converted to text and, by default, left-aligned.

Method 2

- 1) Select the cell.
- 2) On the Sidebar, go to the Properties deck. If necessary, click the **Open Panel** icon (+ or arrow) by *Number Format* to open that panel (Figure 26).
- 3) Select **Text** in the category drop-down list. Formatting is applied to the cell immediately.

✓ Note

By default, any numbers that have been formatted as text in a spreadsheet will be treated as a zero by any formulas used in the spreadsheet. Formula functions will ignore text entries. You can change this feature in **Tools > Options > LibreOffice Calc > Formula**. In *Detailed Calculation Settings*, select **Custom (conversion of text to numbers and more)**. Click the **Details** button, and then select the proper treatment in the Detailed Calculation Settings dialog.

Text

Click in the cell and type the text. By default, text is left-aligned in a cell. Cells can contain several lines of text. If you want to use paragraphs, press *Ctrl+Enter* to create another paragraph.

On the Formula bar, you can extend the *Input line* if you are entering several lines of text. Click on the **Expand Formula Bar** icon located on the right-hand end of the Formula bar and the *Input line* becomes multi-line.

Date and time

Select the cell and type the date or time. You can separate the date elements with a slash (/) or a hyphen (-), or use text, for example 10 Oct 2020. The date format automatically changes to the selected format used by Calc.

When entering a time, separate time elements with colons, for example 10:43:45. The time format automatically changes to the selected format used by Calc.

To change the date or time format used by Calc:

- 1) With the cell selected, open the Format Cells dialog (Figure 25).
- 2) Make sure the *Numbers* tab is selected, then select **Date** or **Time** in the *Category* list.
- 3) Select the date or time format you want to use in the *Format* list. Click **OK**.

Cell fields

You can insert a field linked to the date, sheet name, or document name in a cell.

- 1) Select a cell and double-click to activate edit mode.
- 2) Right-click and select **Insert Field > Date**, or **Sheet Name**, or **Document Title** in the context menu.

Above those three options are other **Date** and **Time** buttons, which will insert the same information but it will not be updated or recalculated as the options mentioned above.

✓ Note

The **Insert Field > Document Title** command inserts the name of the spreadsheet and not the title defined in the *Description* tab in the Properties dialog for the file.

i Tip

The fields are refreshed when the spreadsheet is saved or recalculated when using the *Ctrl+Shift+F9* shortcut.

AutoCorrect Options

Calc automatically applies many changes during data input using AutoCorrect, unless you have deactivated any AutoCorrect changes. You can also undo any AutoCorrect changes by using **Edit > Undo** on the Menu bar, pressing the keyboard shortcut *Ctrl+Z*, or manually by going back to the change and replacing the AutoCorrection with what you want to actually see.

To change the AutoCorrect options, go to **Tools > AutoCorrect Options** on the Menu bar to open the AutoCorrect dialog (Figure 27).

Replace tab

Edit the replacement table for automatically correcting or replacing words or abbreviations.

Exceptions tab

Specify the abbreviations or letter combinations that you do not want corrected automatically.

Options tab

Select the options for automatically correcting errors as you type.

Localized Options tab

Specify the AutoCorrect options for quotation marks and for options that are specific to the language of the text.

Reset button

Reset modified values back to their previous values.

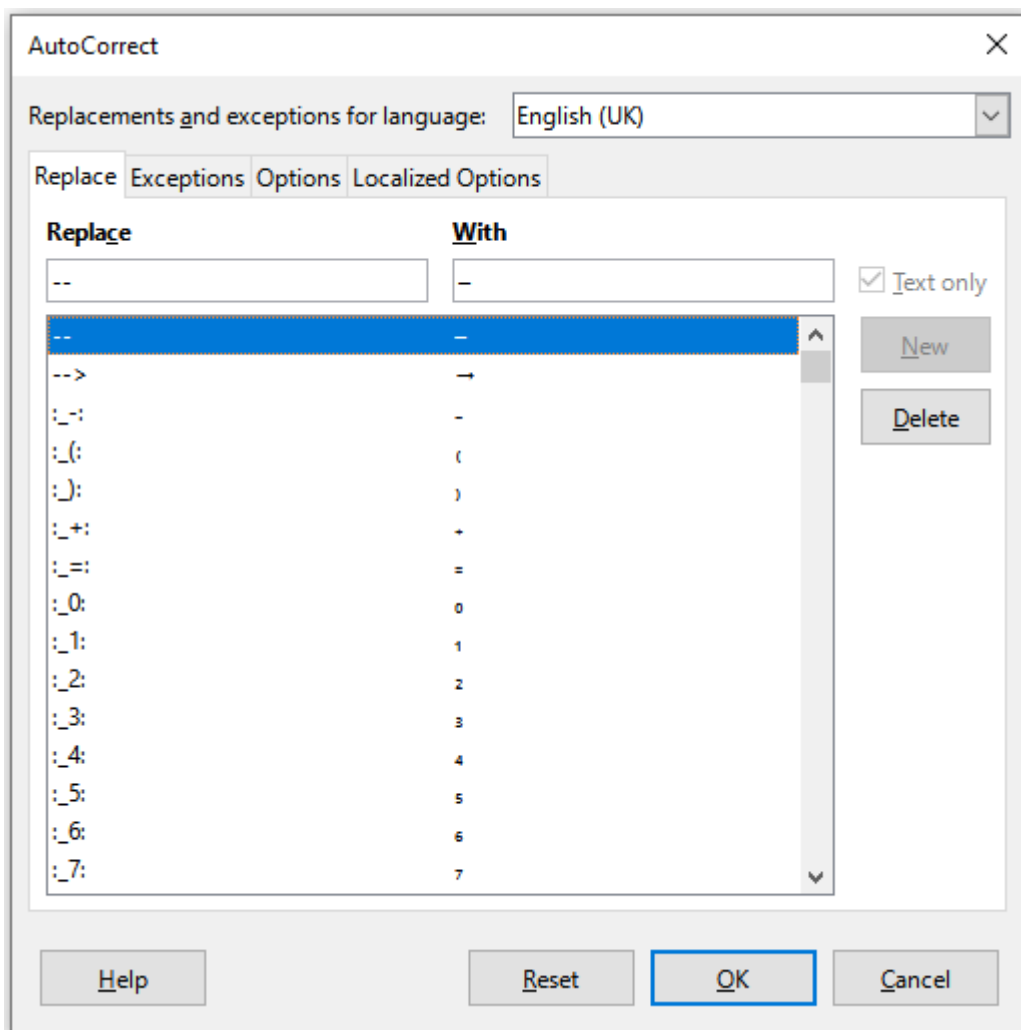


Figure 27: AutoCorrect dialog

Deactivating automatic changes

Some AutoCorrect settings are applied when you press the space bar after you enter data. To turn off or on Calc AutoCorrect, go to **Tools** on the Menu bar and deselect or select **AutoInput**. See also “AutoInput tool” below.

Speeding up data entry

Entering data into a spreadsheet can be very labor-intensive, but Calc provides several tools for removing some of the drudgery from input.

The most basic ability is to drag and drop the contents of one cell to another with a mouse. Many people also find AutoInput helpful. Calc also includes several other tools for automating input, especially of repetitive material. They include the Fill tool, selection lists, and the ability to input information into multiple sheets of the same document.

AutoInput tool

The AutoInput tool in Calc automatically completes entries, based on other entries in the same column. When text is highlighted in a cell, AutoInput can be used as follows:

- 1) To accept the completion, press *Enter* or *F2*, or click the left mouse button.
- 2) To view more completions that start with the same characters, use the key combinations *Ctrl+Tab* to scroll forward, or *Ctrl+Shift+Tab* to scroll backward.
- 3) To see a list of all available AutoInput text items for the current column, use the keyboard combination *Alt+Down Arrow*.

When typing formulas using characters that match previous entries, a Help tip will appear listing the available functions that start with matching characters. AutoInput ignores the case sensitivity of any data you enter.

By default, AutoInput is activated in Calc. To turn it off, go to **Tools** on the Menu bar and deselect **AutoInput**.

Fill tool

You can use the Fill tool to duplicate existing content or create a series in a range of cells (Figure 28).

- 1) Select the cell containing the contents you want to copy or start the series from.
- 2) Drag the cursor in any direction or hold down the *Shift* key and click in the last cell you want to fill.
- 3) Go to **Sheet > Fill Cells** on the Menu bar and select the direction in which you want to copy or create data (**Fill Up**, **Fill Down**, **Fill Left**, or **Fill Right**), or **Fill Series**, or **Fill Random Number** in the submenu.



Tip

You can use the keyboard shortcut *Ctrl+D* as an alternative to selecting **Sheet > Fill Cells > Fill Down** on the Menu bar.

A2:A8		A2:A8	
	A		A
1	Duplicate Fill	1	Series Fill
2	Original	2	1234
3	Original	3	1235
4	Original	4	1236
5	Original	5	1237
6	Original	6	1238
7	Original	7	1239
8	Original	8	1240

Figure 28: Using the Fill tool

Alternatively, you can use a shortcut to fill cells.

- 1) Select the cell containing the contents you want to copy or start the series from.
- 2) Move the cursor over the small square in the bottom right corner of the selected cell. The cursor will change shape.
- 3) Click and drag in the direction you want the cells to be filled. If the original cell contained text, then the text will automatically be copied. If the original cell contained a number, a series will be created.

Caution

When you are selecting cells so you can use the Fill tool, make sure that none of the cells contain data, except for the cell data you want to use. When you use the Fill tool, any data contained in the selected target cells is overwritten.

Using a fill series

When you select a series fill from **Sheet > Fill Cells > Fill Series**, the Fill Series dialog (Figure 29) opens. Here you can select the type of series you want.

Fill Series ✕

Direction	Series Type	Time Unit
<input checked="" type="radio"/> <u>D</u> own	<input checked="" type="radio"/> <u>L</u> inear	<input type="radio"/> <u>D</u> ay
<input type="radio"/> <u>R</u> ight	<input type="radio"/> <u>G</u> rowth	<input type="radio"/> <u>W</u> eekday
<input type="radio"/> <u>U</u> p	<input type="radio"/> <u>D</u> ate	<input type="radio"/> <u>M</u> onth
<input type="radio"/> <u>L</u> eft	<input type="radio"/> <u>A</u> utoFill	<input type="radio"/> <u>Y</u> ear

Start value:

End value:

Increment:

Figure 29: Fill Series dialog

Defining a fill series

If you select the **AutoFill** option on the Fill Series dialog, type some text in the *Start value* field, and press **OK**, Calc will check if one of your predefined sort lists contains that text. If there is a sort list containing that text, Calc uses the entries in that sort list to fill cells. Go to **Tools > Options > LibreOffice Calc > Sort Lists** to view your currently defined sort lists.

To define your own sort list, which can later be used as a fill series:

- 1) Go to **Tools > Options > LibreOffice Calc > Sort Lists** to open the Sort Lists dialog (Figure 30). This dialog shows the previously-defined series in the *Lists* box and the contents of the highlighted list in the *Entries* box.
- 2) Click **New** and the *Entries* box is cleared.
- 3) Type the series for the new list in the *Entries* box (one entry per line).
- 4) Click **Add** and the new list will now appear in the *Lists* box.
- 5) Click **OK** to save the new list.

Selection lists

Selection lists are available only for text and are limited to using only text that has already been entered in the same column.

- 1) Select a blank cell in a column that contains cells with text entries.
- 2) Right-click and select **Selection Lists** in the context menu, or press *Alt+Down Arrow*. A drop-down list appears listing any cell in the same column that either has at least one text character or whose format is defined as text.
- 3) Click on the text entry you require and it is entered into the selected cell.

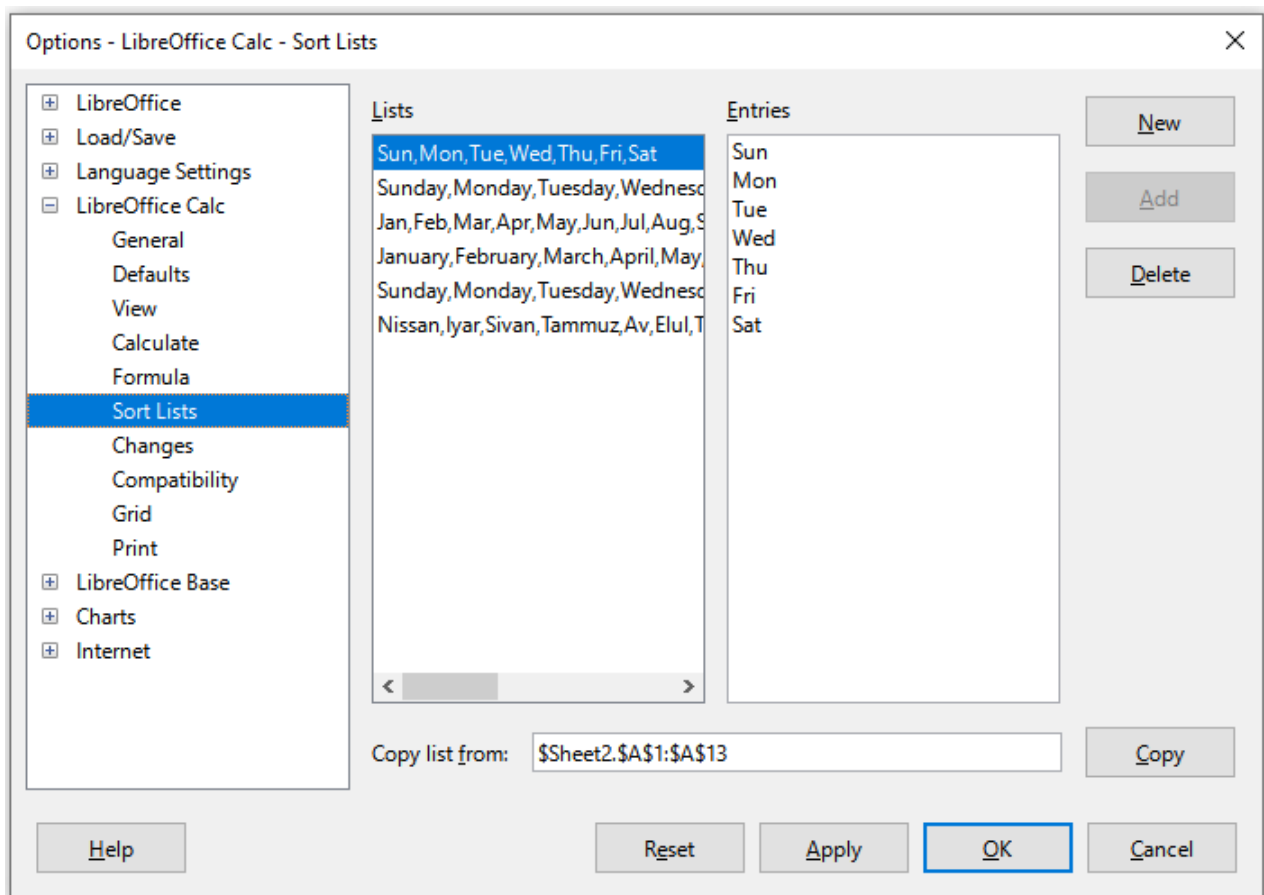


Figure 30: Sort Lists dialog

Sharing content between sheets

You might want to enter the same information in the same cell on multiple sheets, for example to set up standard listings for a group of individuals or organizations. Instead of entering the list on each sheet individually, you can enter the information in several sheets at the same time.

- 1) Go to **Edit > Select > Select Sheets** on the Menu bar to open the Select Sheets dialog.
- 2) Select the individual sheets where you want the information to be repeated.
- 3) Click **OK** to select the sheets and the sheet tabs will change color.
- 4) Enter the information in the cells on the first sheet where you want it to appear and it will be repeated in all the selected sheets.



Caution

This technique automatically overwrites, without any warning, any information that is already in the cells on the selected sheets. Make sure you deselect the additional sheets when you are finished entering information that is going to be repeated before continuing to enter data into the spreadsheet.

Validating cell contents

When creating spreadsheets for other people to use, you may wish to ensure that they enter data that is valid and appropriate for the cell. You can also use validation in your own work as a guide to entering data that is either complex or rarely used.

Fill series and selection lists can handle some types of data, but are limited to predefined information. To validate new data entered by a user, select a cell and go to **Data > Validity** on the Menu bar to define the type of contents that can be entered in that cell. For example, a cell may require a date or a whole number with no alphabetic characters or decimal points, or a cell may not be left empty.

Depending on how validation is set up, it can also define the range of contents that can be entered, provide help messages explaining the content rules set up for the cell and what users should do when they enter invalid content. You can also set the cell to refuse invalid content, accept it with a warning, or start a macro when an error is entered. See Chapter 2, Entering, Editing, and Formatting Data, in the *Calc Guide* for more information.

Editing data

Deleting data

Deleting data only

To delete only the data in a cell or range of cells, without deleting any of the cell formatting, select the cells and then press the *Delete* key.

To completely delete cells, rows, or columns, see the instructions on page 21.

Deleting data and formatting

Data and cell formatting can be deleted from a cell at the same time. To do this:

- 1) Select a cell or a range of cells.
- 2) Press the *Backspace* key, or right-click in the cell selection and choose **Clear Contents** in the context menu, or select **Sheet > Clear Cells** on the Menu bar.
- 3) In the Delete Contents dialog (Figure 31), choose any of the options or **Delete all**.

- 4) Click **OK**.

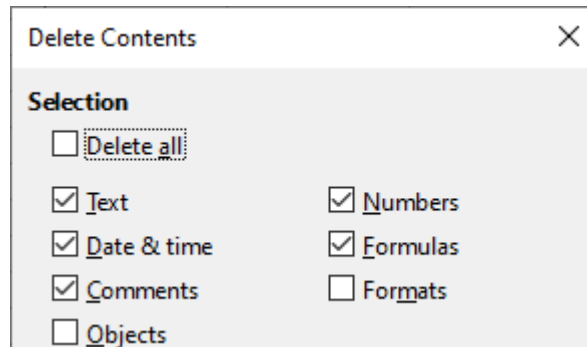


Figure 31: Delete Contents dialog

Replacing data

To completely replace data in a cell and insert new data, select the cell and type in the new data. The new data will replace the old data but will retain the cell formatting.

Alternatively, select the cell and click in the *Input line* on the Formula bar (Figure 2 on page 8), then double-click on the data to highlight it completely and type the new data.

Changing data

Sometimes it is necessary to edit the contents of a cell without removing all of the data from the cell. For example, changing the phrase “Sales in Qtr. 2” to “Sales rose in Qtr” can be done as follows.

Using the keyboard

- 1) Click in the cell to select it.
- 2) Press *F2* to switch the cell to edit mode. The cursor is placed at the end of the content in the cell.
- 3) Use the keyboard arrow keys to position the cursor where you want to start entering the new data in the cell, then press the *Delete* key or *Backspace* key to delete any unwanted data before typing the new data.
- 4) When you have finished editing, press the *Enter* key to save the changes.

Tip

You may want to enable **Tools > Options > LibreOffice Calc > General > Press enter to switch to edit mode**. Then, when you press the *Enter* key in a selected cell, the cell switches to edit mode, eliminating the need to press *F2*.

Using the mouse

- 1) Double-click on the cell to select it and place the cursor in the cell for editing. You can also use **Edit > Cell Edit Mode** on the Menu bar to put the cell in edit mode.
- 2) Either:
 - Reposition the cursor to where you want to start entering the new data in the cell.
 - Single-click to select the cell, then move the cursor to the *Input line* on the Formula bar and click at the position where you want to start editing data in the cell.
- 3) When you have finished, click away from the cell to deselect it and save the changes.

Paste Special function

To copy text, numbers, or formulas to the target cell or cell range:

- 1) Select the source cell or cell range and copy the data by pressing *Ctrl+C* or using **Edit > Copy** on the Menu bar.
- 2) Select the target cell or cell range.
- 3) Right-click on the target cell or cell range and select **Paste Special** in the context menu, then select **Unformatted Text, Text, Number, or Formula**.

Or, use the submenu items reached from **Edit > Paste Special** on the Menu bar.

You can also use the Paste Special function to paste into another cell selected parts of the data in the original cell or cell range, for example its format or the result of its formula. To do this:

- 1) Select a cell or a cell range.
- 2) Go to **Edit > Copy** on the Menu bar, or press *Ctrl+C*, or right-click and select **Copy** in the context menu.
- 3) Select the target cell or cell range.
- 4) Go to **Edit > Paste Special > Paste Special** on the Menu bar, or use the keyboard shortcut *Ctrl+Shift+V*, or right-click and select **Paste Special > Paste Special** in the context menu to open the Paste Special dialog (Figure 32).
- 5) In the preset buttons on the left side of the dialog, you can choose to paste **Values Only**, **Values & Formats**, **Formats Only**, or to **Transpose All** the data in the target cells. On the right side of the dialog, select the options for *Paste*, *Options*, *Operations*, and *Shift Cells*. These are described in the Help and in Chapter 2, Entering, Editing, and Formatting Data, of the *Calc Guide*.
- 6) Click **OK** to paste the data into the target cell or range of cells and close the dialog.

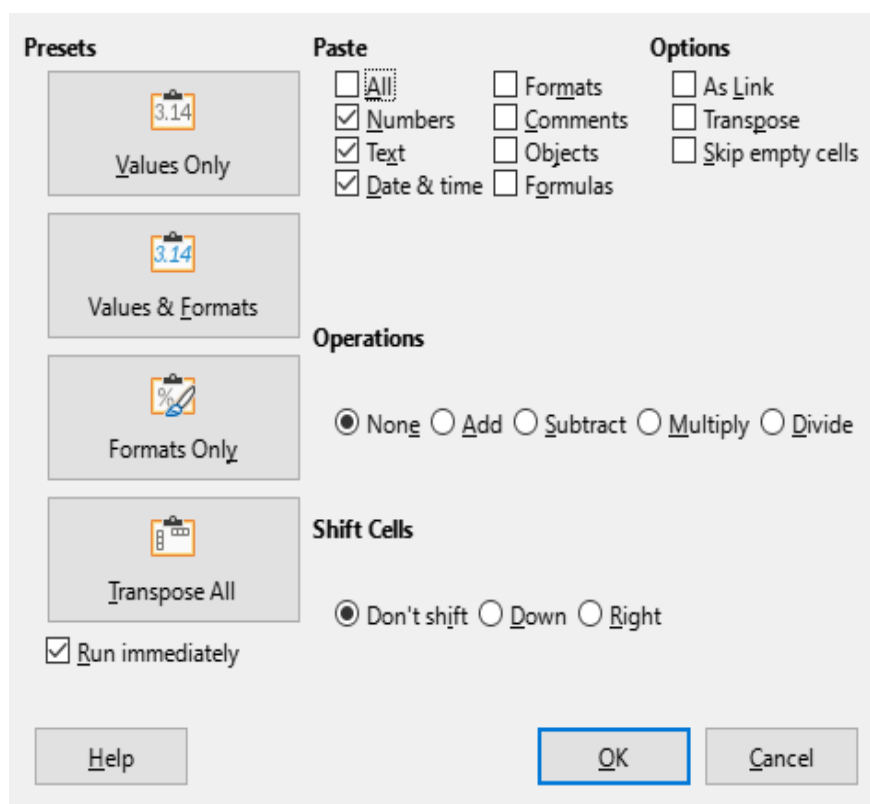


Figure 32: Paste Special dialog

Tip

To see which combination of options on the right side would apply if one of the Preset buttons is selected, deselect the *Run immediately* option below the Presets. With the *Run immediately* option selected, clicking on a Preset button applies that combination of options and closes the dialog.

Formatting data

Note

All the settings discussed in this section can also be set as a part of the cell style. See Chapter 4, Using Styles and Templates, in the *Calc Guide* for more information.

Multiple lines of text

Multiple lines of text can be entered into a single cell using automatic wrapping or manual line breaks. Each method is useful for different situations.

Automatic wrapping

To automatically wrap multiple lines of text in a cell, use one of the following methods.

Method 1

- 1) Right-click on the cell and select **Format Cells** in the context menu to open the Format Cells dialog.
- 2) On the *Alignment* tab (Figure 33), under *Properties*, select **Wrap text automatically** and click **OK**.

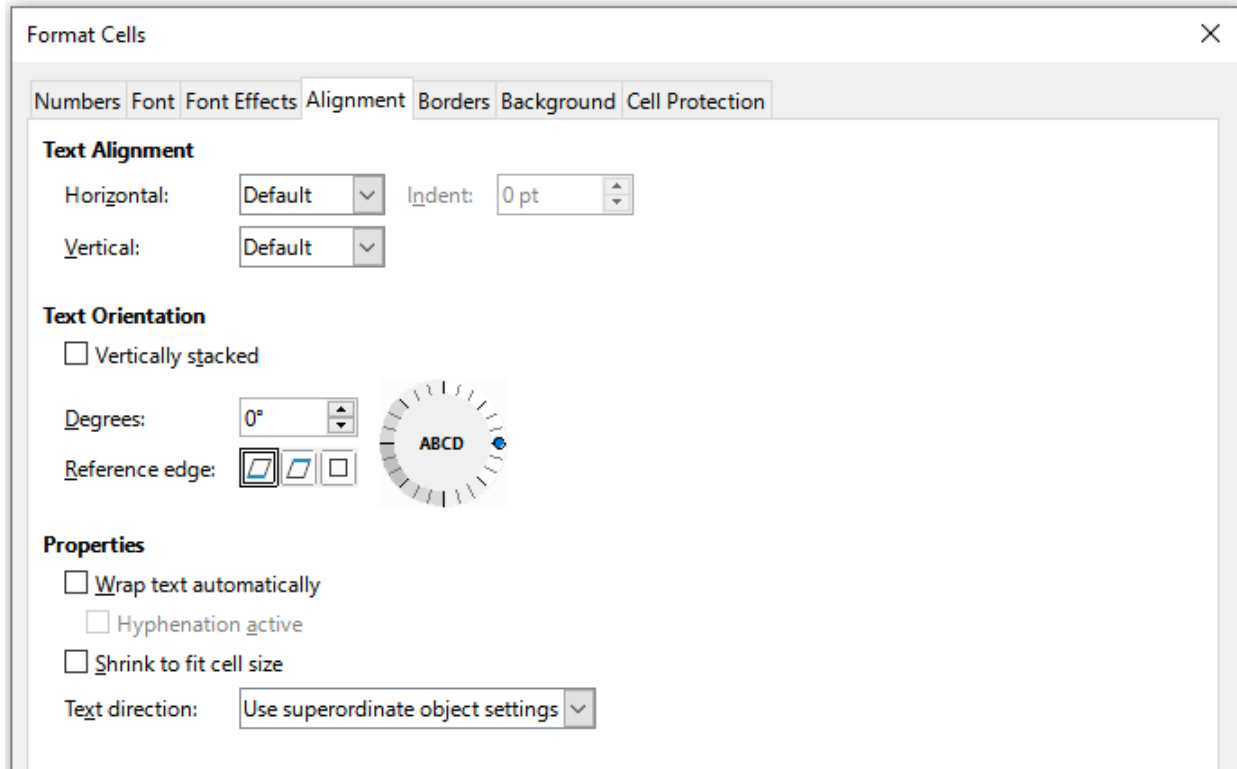


Figure 33: Format Cells dialog – Alignment tab

Method 2

- 1) Select the cell.
- 2) On the Properties deck of the Sidebar, open the Alignment panel (Figure 34).
- 3) Select the **Wrap text** option to apply the formatting immediately.



Figure 34: Wrap text formatting

Manual line breaks

To insert a manual line break while typing in a cell, press *Ctrl+Enter*. When editing text, double-click the cell, then reposition the cursor to where you want the line break. In the *Input line* of the Formula bar, you can also press *Shift+Enter*.

When a manual line break is entered in a cell, the cell row height changes but the cell width does not change and the text may still overlap the end of the cell. You have to change the cell width manually or reposition the line break.

Shrinking text to fit the cell

The font size of the data in a cell can automatically adjust to fit inside cell borders. To do this, select the **Shrink to fit cell size** option under *Properties* on the *Alignment* tab of the Format Cells dialog (Figure 33).

Merging cells

You can select contiguous cells and merge them into one as follows:

- 1) Select the range of contiguous cells you want to merge.
- 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 (Figure 35) opens, showing choices for moving or hiding data in the hidden cells. Make your selection and click **OK**.

Caution

Merging cells can lead to calculation errors in formulas used in the spreadsheet.

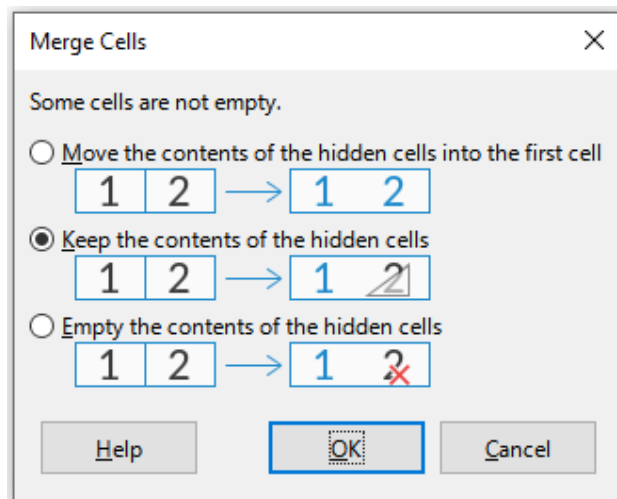


Figure 35: Merge choices for non-empty cells

Splitting cells

You can split a cell that was created from several cells by merging.

- 1) Select a merged cell.
- 2) Go to **Format > Merge Cells > Split Cells** on the Menu bar, or right-click and select **Split Cells** in the context menu, or click on the **Merge and Center Cells** icon on the Formatting toolbar.
- 3) Any data in the cell will remain in the first cell. If the hidden cells did have any contents before the cells were merged, then you have to manually move the contents in to the correct cell.

Formatting numbers

Several number formats can be applied to cells by using icons on the Formatting toolbar. Select the cell, then click the relevant icon to change the number format.

For more control or to select other number formats, use the *Numbers* tab of the Format Cells dialog (Figure 25 on page 27):

- Apply any of the data types in the *Category* list to the data.
- Control the number of decimal places and leading zeroes in the *Options* area.
- Enter a custom format code.
- The *Language* setting controls the local settings for the different formats such as the date format and currency symbol.

Some number formats are available on the sidebar's Number Format panel of the Properties deck. Click the **More Options** button to open the Format Cells dialog.

Formatting fonts and text in cells

Tip

For consistency in a spreadsheet, use cell styles whenever possible.

To manually select a font and format text for use in a cell:

- 1) Select a cell or cell range.
- 2) Click the small triangle on the right of the *Font Name* box on the Formatting toolbar and select a font in the drop-down list, or use the *Font Name* box in the Character panel of the Properties deck on the Sidebar.
- 3) Click on the small triangle on the right of the *Font Size* box on the Formatting toolbar and select a font size in the drop-down list, or use the *Font Size* box in the Character panel of the Properties deck on the Sidebar.
- 4) To change the character format, click on the **Bold**, **Italic**, or **Underline** icons on the Formatting toolbar or on the Character panel of the Properties deck of the Sidebar. On the Sidebar it is possible to change the underline appearance and add some extra effects to the font, such as **Strikethrough** and **Shadow**.
- 5) To change the horizontal paragraph alignment, click on one of the four alignment icons (**Align Left**, **Align Center**, **Align Right**, **Justified**) on the Formatting toolbar or on the Alignment panel of the Properties deck on the Sidebar. For more options, go to **Format > Cells > Alignment** and select one of the options in the *Horizontal* drop-down list.
- 6) To change the vertical alignment of the text in the cell, go to **Format > Cells > Alignment** and select one of the options in the *Vertical* drop-down list.
- 7) To change the font color, click the arrow next to the **Font Color** icon on the Formatting toolbar, or on the Character panel on the Properties deck of the Sidebar, to display the color palette, then select the desired color.
- 8) To specify the language used in the cell, use the *Font* tab on the Format Cells dialog.
- 9) Use the *Font Effects* tab on the Format Cells dialog to set other font characteristics.

Formatting cell borders

To format the borders of a cell or a group of selected cells, click the **Borders** icon on the Formatting toolbar and select a border from the palette.

To format the border line style, click the **Border Style** icon on the Formatting toolbar and select the line style in the palette. For the color of the border lines, click the arrow at the right of the **Border Color** icon on the Formatting toolbar and choose from the selected color palette.

The Cell Appearance panel of the Properties deck on the Sidebar also contains cell border, line style and line color controls.

For more control, including the spacing between cell borders and any data in the cell, use the *Borders* tab of the Format Cells dialog, where you can also define a shadow style. Clicking the **More Options** button on the Cell Appearance panel, or clicking **More Options** in the panel's line style drop-down list, opens the Format Cells dialog at the *Borders* tab.

See Chapter 4, Using Styles and Templates, in the *Calc Guide* for more information.

Note

Cell border properties apply only to the selected cells and can be changed only when you are editing those cells. For example, if cell C3 has a top border, that border can only be removed by selecting C3. It cannot be removed in C2 despite also appearing to be the bottom border for cell C2.

Formatting cell background

To format the background color for a cell or a group of cells, click the small arrow next to the **Background Color** icon on the Formatting toolbar. A color palette, similar to the Font Color palette, is displayed. You can also use the *Background* tab of the Format Cells dialog. The Cell Appearance panel of the Properties deck on the Sidebar contains a cell background control with a color palette. See Chapter 4, Using Styles and Templates, in the *Calc Guide* for more information.

Formatting default cell styles

To add default styles for a cell or a group of cells, click **Styles** on the Menu bar and a menu displays the default styles. The default styles can be applied, or modified in the Styles deck on the Sidebar. You can create custom cell styles by clicking **Styles > New Style from Selection** on the Menu bar, or by clicking the **New Style from Selection** icon on the Styles deck of the Sidebar, or by right-clicking a style in the Styles deck of the Sidebar and selecting **New** in the context menu. Type a new name for the style or click an existing style name to update that style. Apply, delete, or modify the custom style on the Styles deck.

AutoFormatting of cells

Using AutoFormat

You can use Calc's AutoFormat feature to format a table (range of cells) quickly and easily. It also lets you format different tables of the sheet with the same look and feel very easily. All formatting applied is direct formatting.

- 1) Select the cells in at least three columns and rows, including column and row headers, that you want to format.
- 2) Go to **Format > AutoFormat Styles** on the Menu bar to open the AutoFormat dialog (Figure 36).
- 3) Select the type of format and format color in the list.
- 4) Select the formatting properties to be included in the AutoFormat style. Click **OK**.

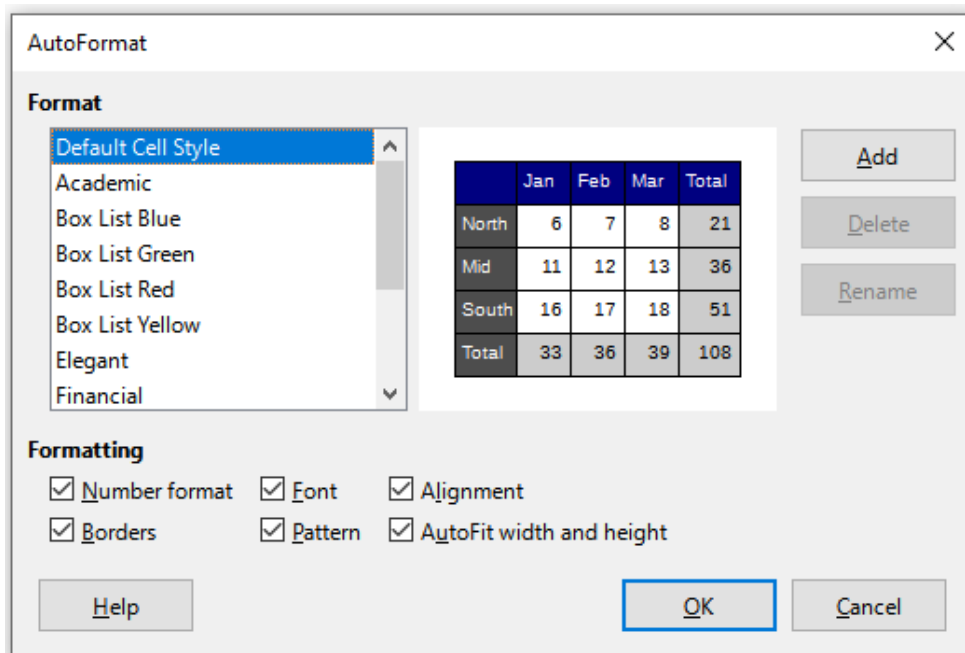


Figure 36: AutoFormat dialog

Defining a new AutoFormat

You can define a new AutoFormat so that it becomes available for use in all spreadsheets.

- 1) Format the data type, font, font size, cell borders, cell background, and so on for a range of cells.
- 2) Select the range, of at least 4 x 4 cells.
- 3) Go to **Format > AutoFormat Styles** to open the AutoFormat dialog. Click **Add**.
- 4) In the *Name* box of the Add AutoFormat dialog that opens, type a meaningful name for the new format.
- 5) Click **OK** to save. The new AutoFormat is now available in the *Format* list in the AutoFormat dialog.



Note

The new AutoFormat is stored in your computer user profile and is not available to other users. However, other users can import the new AutoFormat by selecting the table range in the spreadsheet document and defining it as a new AutoFormat.

Using themes

Calc comes with a predefined set of formatting themes (set of styles) that you can apply to spreadsheets. It is not possible to add new themes to Calc, but you can modify the theme styles after the theme is applied to the spreadsheet. The modified styles are available for use only in that spreadsheet.

To apply a theme to a spreadsheet:

- 1) Go to **Format > Spreadsheet Theme** on the Menu bar or click the **Spreadsheet Theme** icon on the Tools toolbar to open the Theme Selection dialog (Figure 37).
- 2) Select the theme that you want to apply. The theme styles are immediately visible on the underlying spreadsheet.
- 3) Click **OK**.

If you wish, you can now open the Styles deck on the Sidebar to modify specific styles. These changes do not modify the theme; they only change the appearance of the style in the specific spreadsheet you are using. For more about modifying styles, see Chapter 3, Using Styles and Templates.



Caution

Applying a new theme over an existing one will override all existing theme styles customization with the new theme styles.

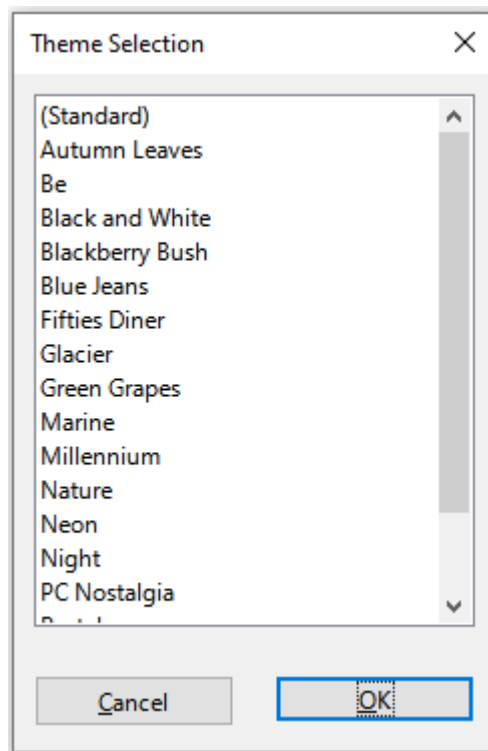


Figure 37: Theme Selection dialog

Using conditional formatting

You can set up cell formats to change depending on conditions that you specify. For example, in a table of numbers, you can show all the values above the average in green and all those below the average in red. Multiple formatting options can be entered and arranged using assigned priority rules to order the importance of the conditions, allowing certain formatting options to take place before others.

Conditional formatting depends upon the use of styles, and the AutoCalculate feature (**Data > Calculate > AutoCalculate**) must be enabled. See Chapter 2, Entering, Editing, and Formatting Data, in the *Calc Guide* for details.

Filtering data

A filter is a list of conditions that each entry has to meet to be displayed. Calc provides three types of filter:

Standard – Specifies the logical conditions to filter the data. It allows filtering by text color or background color.

AutoFilter – Filters data according to a specific value or string. Automatically filters the selected cell range and adds list boxes to the top row, where you can choose the items that you want to display.

Advanced – Uses filter criteria from specified cells.

Setting up and using filters are explained in Chapter 2, Entering, Editing, and Formatting Data, of the *Calc Guide*.

Cell protection

All or some of the cells in a spreadsheet can be password protected to prevent changes being made by unauthorized users. This can be useful when multiple people have access to the spreadsheet itself, but only a few are allowed to modify the data it contains. Protected cells can optionally be hidden.

Use the *Cell Protection* tab of the Format Cells dialog (Figure 38) to set up cell protection and toggle the hidden status of protected cells.

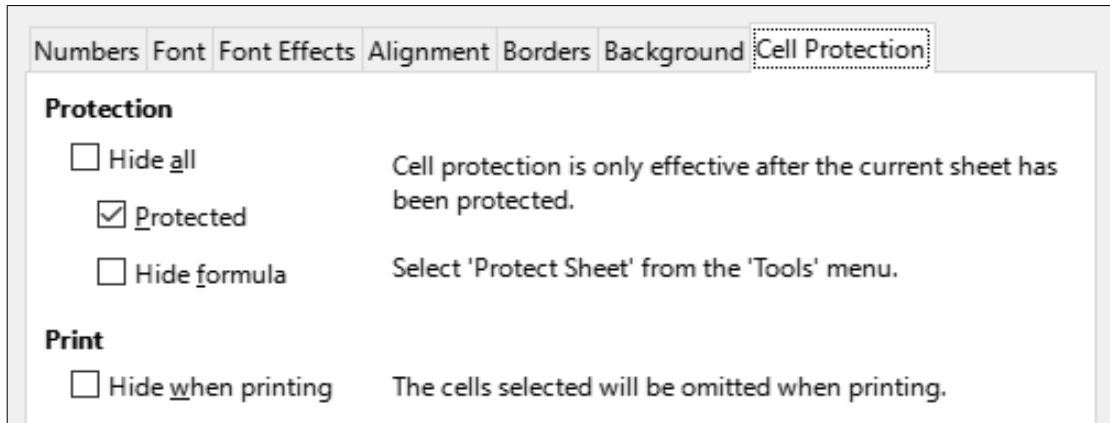


Figure 38: Cell Protection tab in Format Cells dialog

When all desired cells have been flagged with either a protected or unprotected status:

- 1) Go to **Tools > Protect Sheet**, or right-click on the sheet's tab in the *Sheet tabs* area and select **Protect Sheet** in the context menu. The Protect Sheet dialog opens (Figure 39).
- 2) Select **Protect this sheet and the contents of protected cells**.
- 3) Type a password and then confirm the password.
- 4) Select or deselect the user selection options for cells.
- 5) Click **OK**.

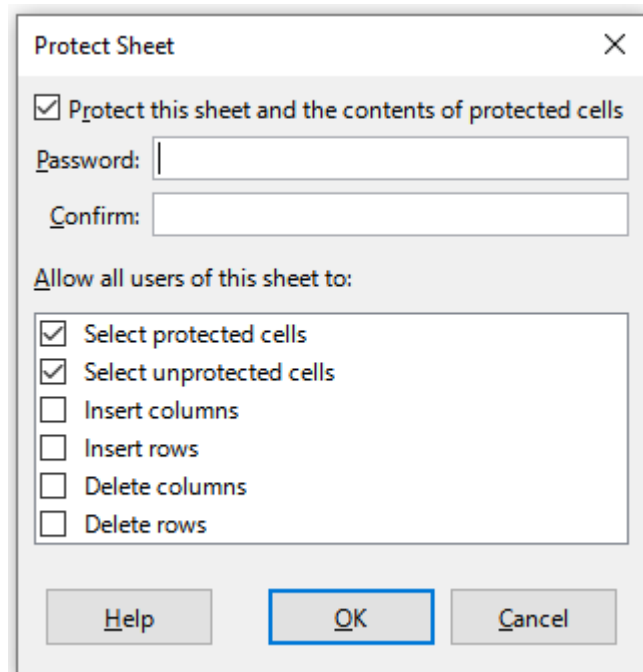


Figure 39: Protect Sheet dialog

Any cells that had been toggled as protected will no longer be editable by anyone that does not have the password.

The protected sheet has a lock icon in its tab, as shown in Figure 40.

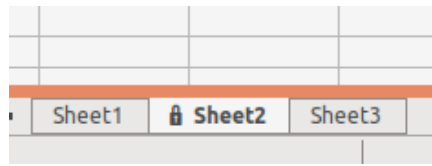


Figure 40: The lock icon in a protected sheet

Alternatively, you can protect the structure of the entire spreadsheet rather than individual cells on individual sheets by selecting **Tools > Protect Spreadsheet Structure** on the Menu bar. This option enables you to protect your spreadsheet against adding, deleting, moving, or renaming sheets. You can optionally enter a password on the Protect Spreadsheet Structure dialog.

Sorting records

Sorting within Calc arranges the cells in a sheet using the sort criteria that you specify. Several criteria can be used and a sort applies each criteria consecutively. Sorts are useful when you are searching for a particular item and become even more useful after you have filtered data.

Also, sorting is useful when you add new information to your spreadsheet. When a spreadsheet is long, it is usually easier to add new information at the bottom of the sheet, rather than adding rows in their correct place. After you have added information, you can then sort the records to update the spreadsheet.

For more information on how to sort records and the sorting options available, see Chapter 2, Entering, Editing, and Formatting Data, in the *Calc Guide*.

To sort cells in a spreadsheet using the Sort dialog:

- 1) Select the cells to be sorted.
- 2) Go to **Data > Sort** on the Menu bar, or click the **Sort** icon on the Standard toolbar, to open the Sort dialog (Figure 41).

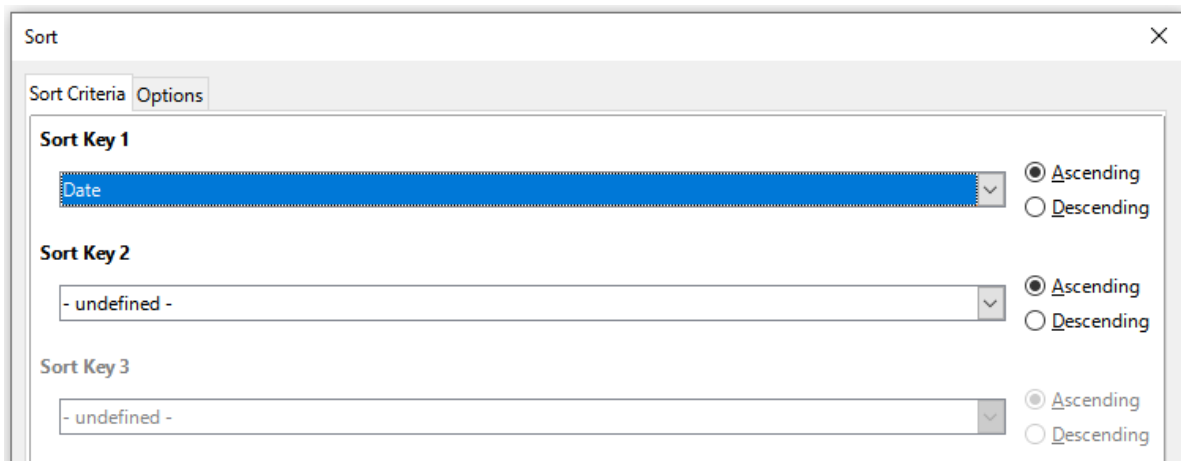


Figure 41: Sort dialog, Sort Criteria tab

- 3) On the *Sort Criteria* tab, select the sort criteria in the drop-down lists. The selected lists are populated from the selected cells.
- 4) Select either ascending order (A-Z, 0-9) or descending order (Z-A, 9-0).

- 5) Adjust the settings as required on the *Options* tab. For details, see the Help or Chapter 2, Entering, Editing, and Formatting Data, of the *Calc Guide*.
- 6) Click **OK** and the sort is carried out on the spreadsheet.

Cell comments

Comments are small notes and text that can serve as a reminder or an aside to the user. A comment is not considered a part of the spreadsheet for calculation or printing purposes, and will only appear when hovering the mouse over the particular cell that has been commented.

The easiest way to insert a comment is by right-clicking on the desired cell and selecting **Insert Comment** in the context menu. Alternatively, you can select **Insert > Comment** on the Menu bar, or use *Ctrl+Alt+C*, or click the **Insert Comment** icon on the Standard toolbar.

By default, comments will remain hidden and only appear when hovering the mouse. Cells that contain comments are marked with a red square in the upper right corner. To toggle the visibility of comments, select **View > Comments** on the Menu bar.

For more information, see Chapter 11, Sharing and Reviewing Spreadsheets, in the *Calc Guide*.

Using formulas and functions

You may need more than numbers and text in a spreadsheet. Often the contents of one cell depend on the contents of other cells. Formulas are equations that use numbers and variables to produce a result. Variables are placed in cells to hold data required by equations.

A function is a predefined calculation entered in a cell to help you analyze or manipulate data. All you have to do is enter the arguments and the calculation is made automatically. Functions help you create the formulas required to get the results that you are looking for.

Creating formulas

Functions and formulas can be entered directly into the Formula bar or by accessing the Function Wizard. To launch the function wizard, click the **Function Wizard** icon to the right of the *Name Box*, or select **Insert > Function** on the Menu bar, or press *Ctrl+F2*.

Inside the Function Wizard, you can search, list, and narrow down the many Calc functions available. You can also choose to complete functions from within the wizard rather than having to type full formulas into the Formula bar.

Each function, when selected, will display a brief explanation of its use and acceptable syntax. It will also display dialog boxes where you can enter the information required by that function and a result window showing the expected calculation from the data entered.

Note

A fast alternative to the Function Wizard is the Functions deck on the Sidebar, where you can quickly list and narrow down functions. It provides brief explanations on their use and syntax, but does not provide the search or data entry capabilities of the full wizard.

LibreOffice Calc offers powerful built-in functions under multiple domains or categories. They are: Database, Date & Time, Financial, Information, Logical, Mathematical, Array, Statistical, Spreadsheet, Text, and Add-in functions.

For a more in-depth introduction to formulas and the Function Wizard, see Chapter 7, Using Formulas and Functions, in the *Calc Guide*.

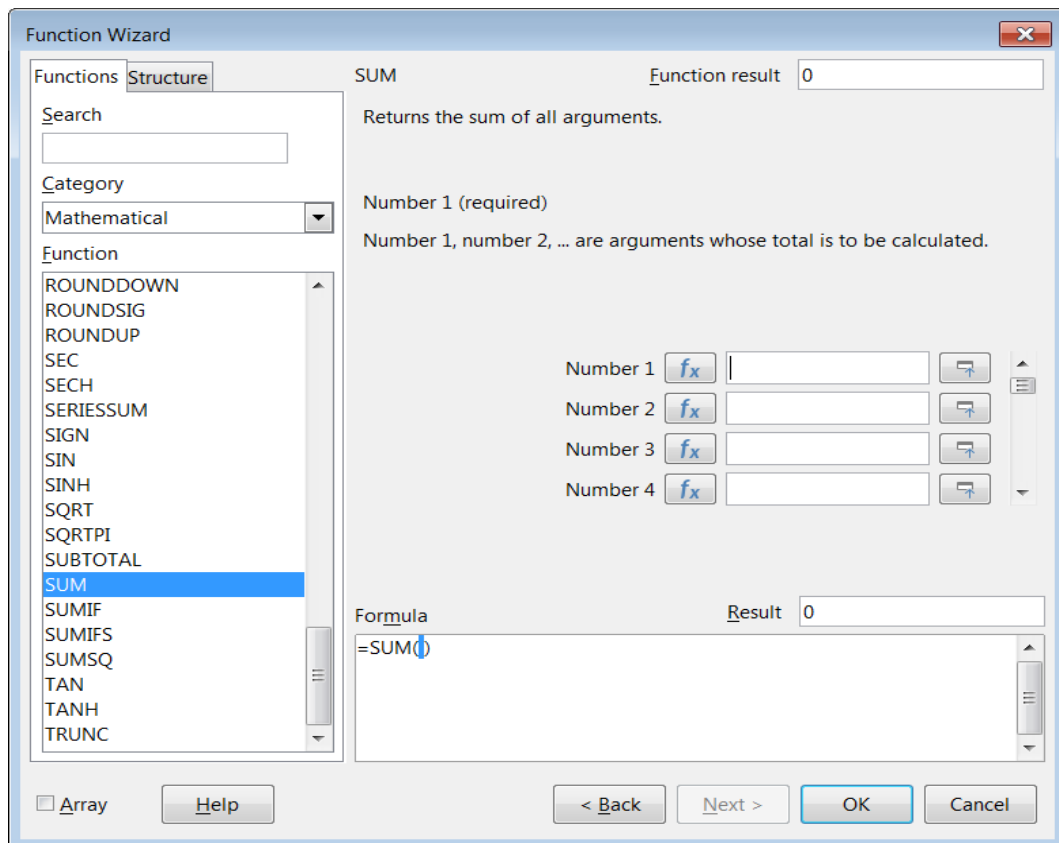


Figure 42: Function Wizard

Analyzing data

Calc includes several tools to help you analyze the information in your spreadsheets, ranging from features for copying and reusing data, to creating subtotals automatically, to varying information to help you find the answers you need. These tools are divided between the Tools and Data menus.

Calc also includes many tools for statistical analysis of data, where you can obtain important numerical information on data obtained from physical measurements, polls, or even business transactions such as sales, stock quotations, and so on. These statistical data analyses are available in the menu **Data > Statistics**.

See Chapter 9, Data Analysis, in the *Calc Guide* for more information on the tools available.

Pivot tables and pivot charts

One of the most useful tools for analyzing data is the pivot table, a way to organize, manipulate, and summarize large amounts of data to make it much easier to read and understand while also allowing you to answer different questions about a spreadsheet by rearranging – or pivoting – the data in it. Using a pivot table, you can view different summaries of the source data, display the details of areas of interest, and create reports. You can also create a pivot chart to view a graphical representation of the data in a pivot table.

For example, you might have a spreadsheet containing a list of donations to various charities by a group of recruiters in various months, but you are only interested in how much money each recruiter has collected in total. You could manually calculate that amount by using the sorting and formatting options provided by Calc. Alternatively, you could arrange a pivot table to make that data easier to organize and read.

To create a pivot table, choose **Data > Pivot Table > Insert or Edit** on the Menu bar, or click the **Insert or Edit Pivot Table** icon on the Standard toolbar. The Pivot Table Layout dialog will intelligently guess the column headings from the provided raw data and insert them into the *Available Fields* selection box. From there, you can drag and drop your desired information into column, row, data, or filter fields to organize accordingly and click **OK** to view the results.

To choose new information to display, or to alter the layout of the existing information, right-click anywhere in the existing pivot table to bring up the context menu and choose **Properties**. You can also access the same dialog by selecting **Data > Pivot Table > Insert or Edit** on the Menu bar, or clicking the **Insert or Edit Pivot Table** icon on the Standard toolbar.

For an in-depth explanation of pivot tables and the preconditions necessary to use them, see Chapter 8, Using Pivot Tables, in the *Calc Guide*.

Pivot charts

To get a quick visual representation of the data contained in a pivot table, you can generate a pivot chart. Functionally, pivot charts are nearly identical to regular charts except in two key areas. First, as the data in the pivot table is altered, the pivot chart will adjust itself automatically. Second, it includes field buttons, graphical elements that allow you to filter the content of the pivot table from within the pivot chart itself.

For more information on pivot charts and charts in general, see Chapter 3, Creating Charts and Graphs, and Chapter 8, Using Pivot Tables, in the *Calc Guide*.

Printing

Printing from Calc is much the same as printing from other LibreOffice components (see Chapter 10, Printing, Exporting, E-mailing, and Signing Documents). However, some details of printing in Calc are different, especially regarding preparation for printing.

After print ranges have been defined, they are formatted with automatic page breaks. To view the page breaks, go to **View > Page Break** on the Menu bar.

Print ranges

Print ranges have several uses, including printing only a specific part of the data or printing selected rows or columns on every page. For more information about using print ranges, see Chapter 6, Printing, Exporting, Emailing, and Signing in the *Calc Guide*.

Defining a print range

To define a new print range or modify an existing print range:

- 1) Select the range of cells to be included in the print range.
- 2) Go to **Format > Print Ranges > Define** on the Menu bar. Automatic page break lines are displayed on screen.
- 3) To check the print range, go to **File > Print Preview** on the Menu bar, press **Ctrl+Shift+O**, or click the **Toggle Print Preview** icon on the Standard toolbar. Calc will display only the cells in the print range.

Adding to a print range

After defining a print range, you can add more cells to it by creating another print range. This allows multiple, separate areas of the same sheet to be printed while not printing the whole sheet.

- 1) After defining a print range, select an extra range of cells for adding to the print range.

- 2) Go to **Format > Print Ranges > Add** on the Menu bar to add the extra cells to the print range. The page break lines are no longer displayed on the screen.
- 3) To check the print ranges, go to **File > Print Preview** on the Menu bar, press *Ctrl+Shift+O*, or click the **Toggle Print Preview** icon on the Standard toolbar. LibreOffice will display the print ranges as separate pages.

Note

The additional print range will print as a separate page, even if both ranges are on the same sheet.

Removing a print range

It may become necessary to remove a defined print range, for example, if the whole sheet needs to be printed later.

To remove all the defined print ranges, go to **Format > Print Ranges > Clear** on the Menu bar. After the print ranges have been removed, the default page break lines will appear on the screen.

Editing a print range

At any time, you can directly edit the print range, for example to remove or resize part of the print range. Go to **Format > Print Ranges > Edit** on the Menu bar to open the Edit Print Ranges dialog where you can define the print range.

Printing options

To select the printing options for page order, details, and scale to be used when printing a spreadsheet:

- 1) Go to **Format > Page Style** on the Menu bar to open the Page Style dialog (Figure 43).
- 2) Select the *Sheet* tab and make your selections from the available options. Click **OK**.

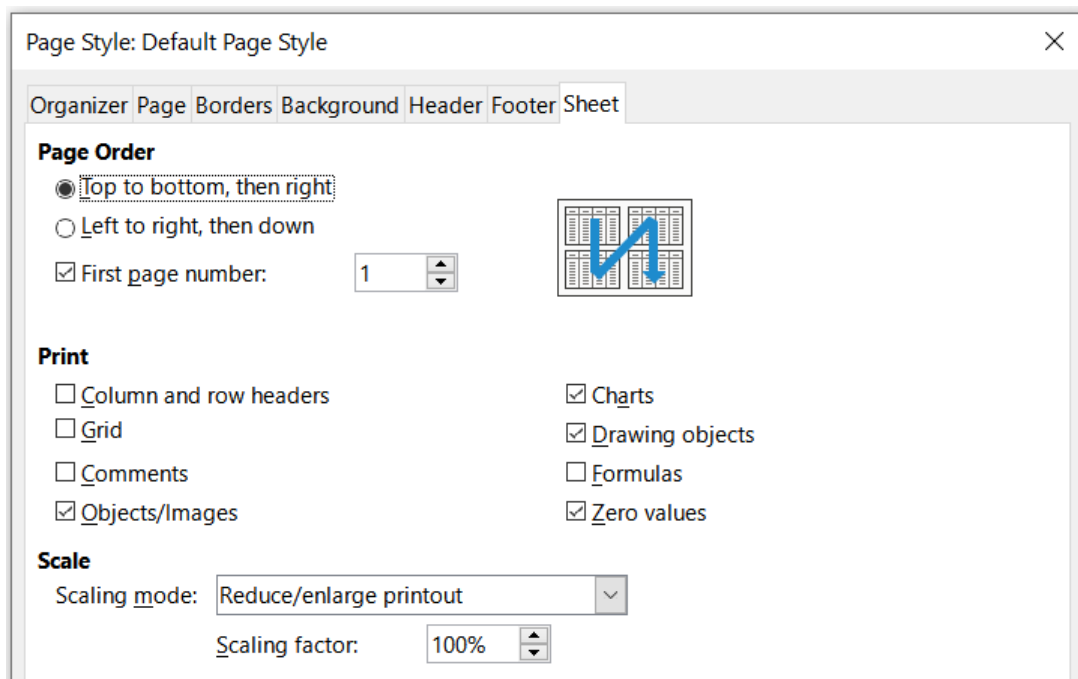


Figure 43: Page Style dialog – Sheet tab

Repeat printing of rows or columns

If a sheet is printed on multiple pages, you can set up certain rows or columns to repeat on each printed page. For example, if the top two rows of the sheet as well as column A need to be printed on all pages, do the following:

- 1) Go to **Format > Print Ranges > Edit** on the Menu bar to open the Edit Print Ranges dialog (Figure 44).
- 2) Type the row identifiers in the *Rows to Repeat* box. For example, to repeat rows 1 and 2, type \$1:\$2. This automatically changes *Rows to Repeat* from **- none -** to **- user defined -**.
- 3) Type the column identifiers in the *Columns to Repeat* box. For example, to repeat column A, type \$A. In the *Columns to Repeat* list, **- none -** changes to **- user defined -**.
- 4) Click **OK**.

For more information on editing print ranges, see Chapter 6, Printing, Exporting, E-mailing, and Signing, in the *Calc Guide*.

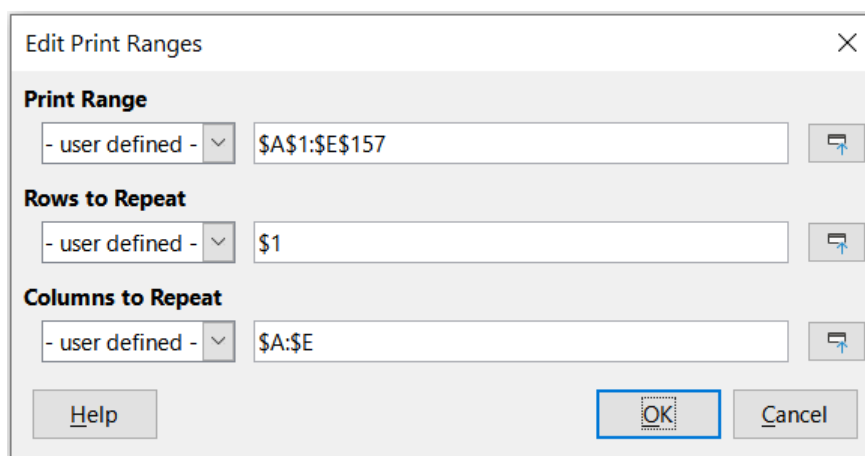


Figure 44: Edit Print Ranges dialog

Page breaks

While defining a print range can be a powerful tool, it may sometimes be necessary to manually adjust the Calc printout manually using a manual or page break. A page break helps to ensure that the data prints properly according to the page size and page orientation. You can insert a horizontal page break above or a vertical page break to the left of the active cell.

Inserting a break

To insert a page break:

- 1) Navigate to the cell where the page break will begin.
- 2) Go to **Sheet > Insert Page Break** on the Menu bar.
- 3) Select **Row Break** to create a page break above the selected cell. Select **Column Break** to create a page break to the left of the selected cell.

Deleting a break

To remove a page break:

- 1) Navigate to a cell that is next to the break you want to remove.
- 2) Go to **Sheet > Delete Page Break** on the Menu bar.
- 3) Select **Row Break** or **Column Break** as needed.

✓ Note

Multiple manual row and column breaks can exist on the same page. When you want to remove them, you have to remove each break individually.

For more information on manual breaks, see Chapter 6, Printing, Exporting, E-mailing, and Signing, in the *Calc Guide*.

Headers and footers

Headers and footers are predefined pieces of text that are printed at the top or bottom of a page when a spreadsheet is printed. Headers and footers are set and defined using the same method. For more information on setting and defining headers and footers, see Chapter 6, Printing, Exporting, E-mailing, and Signing, in the *Calc Guide*.

Headers and footers are also assigned to a page style. You can define more than one page style for a spreadsheet and assign different page styles to different sheets within a spreadsheet. For more information, see Chapter 4, Using Styles and Templates, in the *Calc Guide*.

Setting a header or footer

To set a header or footer:

- 1) Select the sheet that you want to set the header or footer for.
- 2) Go to **Format > Page Style** on the Menu bar to open the Page Style dialog (Figure 45) and select the *Header* or *Footer* tab (Figure 45).
- 3) Select the **Header on** or **Footer on** option.
- 4) Select **Same content on left and right pages** if you want the same header or footer to appear on all the printed pages.
- 5) Set the margins, spacing, and height for the header or footer. You can also select **AutoFit height** to automatically adjust the height of the header or footer.
- 6) To change the appearance of the header or footer, click on **More** to open the Border / Background dialog.
- 7) To set the contents, for example page number, date and so on, that appear in the header or footer, click **Edit** to open the Header (or Footer) dialog.

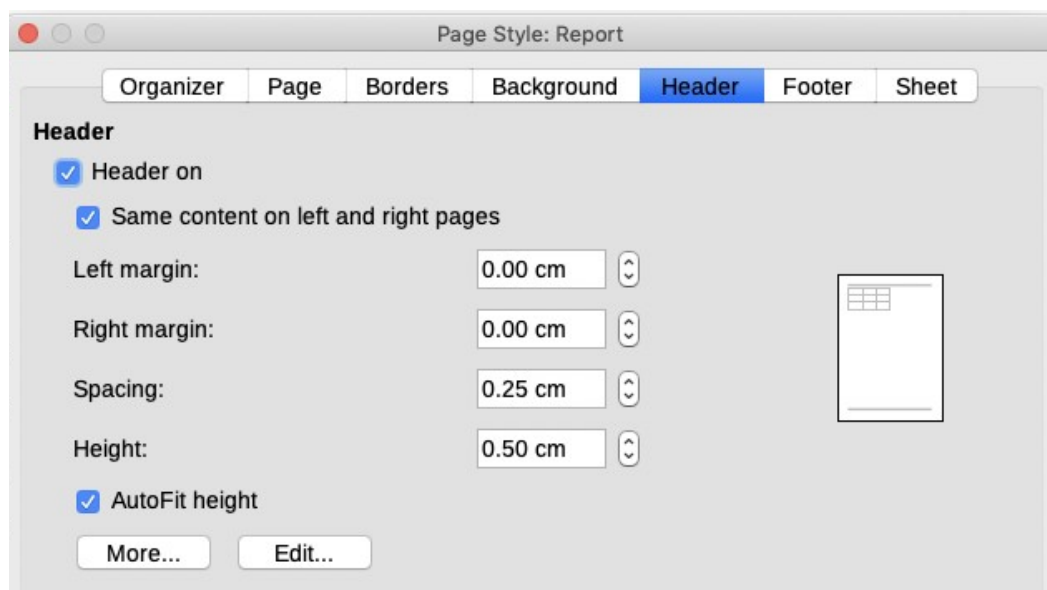


Figure 45: Header tab of Page Style dialog