Chapter 15
Setting up and Customizing
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 document. For a more detailed list, see the application Help and Appendix A (Keyboard Shortcuts) to this guide.

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<tr>
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Documentation for LibreOffice is available at https://documentation.libreoffice.org/en/
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Introduction

This chapter presents some of the setup options found under Tools > Options on the Menu bar (LibreOffice > Preferences on macOS). Additional options, and more details about those given here, are covered in the Help and in Chapters 2 (Setting up LibreOffice) and 14 (Customizing LibreOffice) in the Getting Started Guide.

This chapter also describes some common customizations to menus, toolbars, and keyboard shortcuts. Other customizations are made easy by extensions that you can install from the LibreOffice website or from other providers.

LibreOffice options

This section covers some of the settings that apply to all the components of LibreOffice and are of particular interest to users of Calc.

1) Choose Tools > Options to open the Options dialog. The list on the left-hand side varies depending on which LibreOffice component is open. The illustrations in this chapter show the list as it appears when Calc is open.

2) Click the expansion symbol (+ or triangle) next to LibreOffice. A list of subsections drops down.

![Figure 1: LibreOffice options]

### Note

The Reset button, located in the lower right of the full Options dialog, has the same effect on all pages of the dialog. It resets the options to the values that were in place when you opened the dialog.
User data

User data is used by templates and wizards in LibreOffice. For example, Calc uses the first and last name stored here to fill in the Created and Modified fields in the document properties. These fields may also be used in the footer of a printed spreadsheet or as the name associated with comments. If you want your name to appear, then fill in the form on the LibreOffice – User Data page.

View

The options on the LibreOffice – View page affect how the document window looks and behaves, including the size and style of toolbar and Sidebar icons. Set these options to suit your personal preferences.

Print

On the LibreOffice – Print page, you can set the print options to suit your default printer and your most common printing method. You can change these settings at any time, either through this dialog or during the printing process (through the Print dialog).

Calc-specific print options are described in “Print options” below.

See Chapter 7, Printing, Exporting, Emailing, and Signing, for more about these options.

Paths

On the LibreOffice – Paths page, you can change the location of files associated with, or used by, LibreOffice to suit your needs. For example, you might want to store spreadsheets by default on a shared server. Some items can have at least two paths listed: one to a shared folder (which might be on a network) and one to a user-specific folder (normally on the user’s personal computer).

Security

Use the LibreOffice – Security page to choose security options for saving documents and for opening documents that contain macros.

![Security Options and Warnings](image)

- **Security Options and Warnings**
  - Adjust security-related options and define warnings for hidden information in documents.

- **Passwords for Web Connections**
  - Persistently save passwords for web connections
  - Protected by a master password (recommended)
  - Master Passwords...

- **Macro Security**
  - Adjust the security level for executing macros and specify trusted macro developers.
  - Macro Security...

- **TSA**
  - Maintain a list of Time Stamping Authority (TSA) URLs to be used for digital signatures in PDF export.
  - TSA...

*Figure 2: Choosing security options for opening and saving documents*
Security Options and Warnings
If you record changes, save multiple versions, or include hidden information or notes in your documents, and you do not want some of the recipients to see that information, you can set warnings to remind you to remove this information, or you can have LibreOffice remove some information automatically. Note that (unless removed) much of this information is retained in a file whether the file is in LibreOffice’s default OpenDocument Format, or has been saved to other formats, including PDF.

Click the **Options** button to open a separate dialog with specific choices (see Figure 3).

Passwords for Web Connections
You can enter a master password to enable easy access to websites that require a user name and password. If you select the **Persistently save passwords for web connections** option, the Set Master Password dialog opens. LibreOffice will securely store all passwords that you use to access files from web servers. You can retrieve the passwords from the list after you enter the master password.

Macro Security
Click the **Macro Security** button to open the Macro Security dialog, where you can adjust the security level for executing macros and specify trusted sources.

Certificate Path
Users can digitally sign documents using LibreOffice. A digital signature requires a personal signing certificate. Most operating systems can generate a self-signed certificate. However, a personal certificate issued by an outside agency (after verifying an individual’s identity) has a higher degree of trust associated with it than a self-signed certificate. LibreOffice does not provide a secure method of storing these certificates, but it can access certificates that have been saved using other programs. Click the **Certificate** button and select which certificate store to use.

**Note**

The Certificate Path option appears only on Linux and macOS systems. On Windows, LibreOffice uses the default Windows location for storing and retrieving certificates.

TSAs – Time Stamping Authorities
Allows you to optionally select a Time Stamping Authority (TSA) URL for PDF documents created by LibreOffice. Adding a trusted timestamp to an electronic signature on a PDF provides a digital seal of data integrity and a trusted date and time of when the file was signed. Recipients of PDF documents with a trusted timestamp can verify when the document was digitally or electronically signed, as well as verify that the document was not altered after the date the timestamp vouches for.

Security Options and Warnings
The following options are on the Security Options and Warnings dialog (Figure 3).

Remove personal information on saving
Select this option to always remove user data from the file properties when saving the file. To manually remove personal information from specific documents, deselect this option and then use the **Reset Properties** button under **File > Properties > General** on the Menu bar.

Ctrl-click required to open hyperlinks
The default behavior in most components of LibreOffice is to `Ctrl`-click on a hyperlink to open the linked document, but you can choose to open hyperlinks using a single click.

The other options on this dialog should be self-explanatory.
Application colors

On the LibreOffice – Application Colors page (Figure 4), you can specify which user interface elements are visible and the colors used to display them. Scroll down the list until you find the section headed Spreadsheet. To change the default color for Grid lines or other on-screen indicators, click the down-arrow by the color and select a new color in the drop-down list.

If you wish to save your color changes as a color scheme, click Save, type a name in the Name of color scheme box in the pop-up dialog, and then click OK.
LibreOffice is supplied with a default color scheme (entitled “LibreOffice”) and an alternative preset color scheme (entitled “LibreOffice Dark”). The latter may be preferable in some working environments where a reduction in the amount of bright white light on the screen could be beneficial. Use the Scheme drop-down menu to select one of these schemes, or some alternative scheme that you have already created and saved. As you make selections in this menu, the Custom Colors area on the dialog is updated to show the settings for the chosen scheme and the underlying Calc window is also updated accordingly – if you subsequently press the Cancel button, the previously selected color scheme is re-applied.

**Advanced options**

Two items of interest on this page are found under Optional Features:

- **Enable experimental features (may be unstable)**
  Selecting this option enables features that are not yet complete or contain known bugs. The list of these features is different version by version.

- **Enable macro recording (may be limited)**
  This option enables macro recording, with some limitations. For more about macro recording, see Chapter 13, Getting Started with Macros, in the Getting Started Guide, and Chapter 13, Macros, in this book.

**Options for loading and saving documents**

You can set the Load/Save options to suit the way you work. This chapter describes only a few of the options, those most relevant to working with Calc. See Chapter 2, Setting up LibreOffice, in the Getting Started Guide for a description of the other options.

If the Options dialog is not already open, click Tools > Options on the Menu bar. Click the expansion symbol (+ or triangle) by Load/Save on the left-hand side to display the list of load/save options pages.

**General**

Many of the choices on the Load/Save – General page (Figure 5) are familiar to users of other office suites. Those of most interest to Calc users are in the Default File Format and ODF Settings section.

- **Default File Format and ODF Settings**
  - **ODF format version**: LibreOffice by default saves documents in OpenDocument Format (ODF) version 1.3 Extended. You will rarely need to change this for compatibility when exchanging files with other people.
  - **Document type**: If you routinely share documents with users of Microsoft Excel, you might want to change the Always save as option to one of the Excel formats, including XLSX. However, you can choose an Excel format when you save any individual file.
  
  We recommend that you always save a working copy in ODS format and only create an Excel version if necessary for sharing. Also, note that recent versions of Microsoft Excel can open ODS files, so this may no longer be needed.
VBA Properties

On the Load/Save – VBA Properties page (Figure 6), you can choose whether to keep any VBA (Visual Basic for Applications) macros in Microsoft Office documents that are opened in LibreOffice.

If you choose **Load Basic code**, you can edit the macros in LibreOffice. The changed code is saved in an ODF document but is not retained if you save into a Microsoft Office format.

If you choose **Save original Basic code**, the macros will not work in LibreOffice but are retained unchanged if you save the file into Microsoft Office format.

If you are importing a Microsoft Word or Excel file containing VBA code, you can select the option **Executable code**. Whereas normally the code is preserved but rendered inactive (if you inspect it with the LibreOffice Basic IDE you will notice that it is all commented), with this option the code is ready to be executed.

**Save original Basic code** takes precedence over **Load Basic code**. If both options are selected and you edit the disabled code in LibreOffice, the original Microsoft Basic code will be saved when saving in a Microsoft Office format.

To remove any possible macro viruses from the Microsoft Office document, deselect **Save original Basic code**. The document will be saved without the Microsoft Basic code.
Microsoft Office

On the Load/Save – Microsoft Office page (Figure 7), you can choose what to do when importing or exporting Microsoft Office OLE objects (linked or embedded objects or documents such as spreadsheets or equations): convert them into or from the corresponding LibreOffice OLE object or load and save them in their original format.

Select the [L] options to convert Microsoft OLE objects into the corresponding LibreOffice OLE objects when a Microsoft document is loaded into LibreOffice.

Select the [S] options to convert LibreOffice OLE objects into the corresponding Microsoft OLE objects when a document is saved in a Microsoft format.

![Figure 7: Choosing Load/Save Microsoft Office options](image)

The Character Highlighting options enable you to select between the two text highlighting (character background) attributes that Microsoft Office provides, Highlighting or Shading. Shading is the initial default.

The Create MSO lock file option improves interoperability with Microsoft Office for shared spreadsheets. When enabled, Calc writes two lock files when opening a Microsoft Office format file, one LibreOffice lock file and one Microsoft Office lock file. This enables users of both suites to be made aware that the file is in use. The option is initially disabled by default.

HTML Compatibility

Choices made on the Load/Save – HTML Compatibility page (Figure 8) affect how LibreOffice imports or exports HTML pages. See Chapter 2, Setting up LibreOffice, in the Getting Started Guide, and “HTML documents importing/exporting” in the Help, for more information.

The main items of interest for Calc users are in the Export section.

**LibreOffice Basic**

Select this option to include LibreOffice Basic macros (scripts) when exporting to HTML format. You must activate this option before you create the LibreOffice Basic macro; otherwise the script will not be inserted. LibreOffice Basic macros must be located in the header of the HTML document. Once you have created the macro in the LibreOffice Basic IDE, it appears in the source text of the HTML document in the header.

If you want the macro to run automatically when the HTML document is opened, choose Tools > Customize > Events. See Chapter 13, Macros, for more information.

**Display warning**

When the LibreOffice Basic option (see above) is not selected, the Display warning option becomes available. If the Display warning option is selected, then when exporting to HTML a warning is shown that LibreOffice Basic macros will be lost.
Print layout
Select this option to export the print layout of the current document as well. The HTML filter supports CSS2 (Cascading Style Sheets Level 2) for printing documents. These capabilities are only effective if print layout export is activated.

Copy local images to Internet
Select this option to automatically upload the embedded pictures to an Internet server when uploading using FTP.

Figure 8: Choosing HTML compatibility options

Calc-specific options
Calc must be open in order for the LibreOffice Calc options to be displayed in the Options dialog. Click the expansion symbol (+ or triangle) by LibreOffice Calc. A list of subsections drops down (Figure 9).

General
The choices on the LibreOffice Calc – General page (Figure 10) affect the units used for rulers and other measurements, the default tab stop positions, the updating of links and fields, and various input settings.

Metrics section
Choose the unit of measurement used in spreadsheets and the default tab stops distance.

Update links when opening section
Choose whether to update links when opening a document: Always, On request, or Never. Spreadsheets that include many or large charts or graphics may load slowly if this option is set to Always.
Input Settings

Press Enter to move selection
Specifies that pressing \textit{Enter} moves the cursor to another cell. You can also choose the direction the cursor moves: \textbf{Up}, \textbf{Down}, \textbf{Left}, or \textbf{Right}. If this option is not selected, pressing \textit{Enter} places the data into the cell but does not move the cursor.

Press Enter to switch to edit mode
Specifies that pressing \textit{Enter} puts the selected cell into edit mode. To end edit mode and move the cursor in the desired direction, press \textit{Enter} again.

Press Enter to paste and clear clipboard
When the content of a cell is copied to the clipboard, you can paste the information in another cell by pressing the \textit{Enter} key. After pasting occurs, the clipboard is cleared. Here you can enable/disable this feature.
Expand formatting
Specifies whether to automatically apply the formatting attributes of the selected cell to empty adjacent cells. If, for example, a selected cell has the bold attribute, this attribute will also apply to empty adjacent cells. However, cells that already have a special format will not be modified by this function. To see the affected range, press Ctrl+* (multiplication sign on the number pad). The format will also apply to all new values inserted within this range. This feature works only while you are inserting data in adjacent cells with the previous formatting style; if you insert some data in a non-adjacent cell, Expand formatting will no longer work. In order to get it to work again, you will need to format a cell again (it could be the same one if you like) and insert data into its adjacent cells.

Expand references when new columns/rows are inserted
Specifies whether to expand references when inserting columns or rows adjacent to the reference range. This is only possible if the reference range, where the column or row is inserted, originally spanned at least two cells in the desired direction.

Example: If the range A1:B1 is referenced in a formula and you insert a new column after column B, the reference is expanded to A1:C1. If the range A1:B1 is referenced and a new row is inserted under row 1, the reference is not expanded, since there is only a single cell in the vertical direction.

If you insert rows or columns in the middle of a reference area, the reference is always expanded.

Update references when sorting range of cells
When selected, references to cells are updated when a range of cells is sorted. If not selected, the references are unchanged.

Highlight selection in column/row headers
Specifies whether to highlight column and row headers in the selected columns or rows.

Use printer metrics for text formatting
Select this option to use the properties of the default printer to format the display of a spreadsheet. Those properties can be found by choosing File > Printer Settings and then selecting the Properties button for the default printer. If the printer has options for page setup, those settings will be applied to Calc documents. If this option is not selected, pages will be configured for a generic printer.

Show overwrite warning when pasting data
Pasting contents of the clipboard into a cell will replace the contents of that cell with what is in the clipboard. Select this option to be alerted to a possible loss of data when pasting.

Position cell reference with selection
With this option set, expanding a selection (with Ctrl+Shift+Down/Up) jumps to the end of the range in the column that was added as last to the initial selection. When the option is not set, expanding a selection (with Ctrl+Shift+Down/Up) jumps to the end of the range in the column where selecting the cell range was started. The same applies when extending a selection on rows, with Ctrl+Shift+Left/Right.

Defaults
On the LibreOffice Calc – Defaults page you can enter the number of sheets to be opened by default when you start a new spreadsheet, and either accept the default sheet prefix or type a new one. After a spreadsheet has been created, you can add new sheets and change the label of any tab; see Chapter 1, Introduction, for more information.
View
The options on the LibreOffice Calc – View page (Figure 11) affect the way the document window looks and behaves when viewed onscreen.

Display section
Select various options for the display.

Formulas
Display the content of a cell either as a formula or as the result of that formula.

Zero values
Display a zero in a cell when the cell has a value of zero, or display an empty cell.

Comment indicator
Select this option to show a small symbol in the top right corner of a cell that contains a comment.
To always display a comment, right-click on the cell and select Show comment in the context menu.

Value highlighting
Select this option to highlight all values, or results of formulas, in the sheet. Text is highlighted in black; numbers, dates and logical values in blue, since they are all handled as numbers by Calc; formulas are displayed in green. When this option is active, any colors assigned in the document are not displayed.

Anchor
If an inserted object, such as a picture, is anchored to a cell, an image of an anchor will appear in the cell to which the object is anchored.

Text overflow
If a cell contains text that is wider than the width of the cell, the text is displayed over empty neighboring cells in the same row. If there is no empty neighboring cell, a small triangle at the cell border indicates that the text continues. If this option is selected, text will wrap inside the cell and the height of the row will expand to accommodate the height of the expanded cell.

Figure 11: Selecting view options for Calc
Show references in color
Select this option to provide a visual aid to assist the editing of a formula. Each reference is then highlighted in color in the formula, and the referenced cell range is enclosed by a colored border as soon as the cell containing the reference is selected for editing.

![Image of a spreadsheet with formula references highlighted in color]

Figure 12: Formula references – visual aids

Window section
The following elements of the spreadsheet window can be made visible or invisible: column and row headers, horizontal and vertical scroll bars, sheet tabs, and, if an outline has been defined, outline symbols.

If the Sheet tabs option is not selected, you can only switch between the sheets by using the Navigator.

The Summary on search option controls the display of the Search Results dialog, which is described in detail in Chapter 2, Entering and Editing Data.

Visual Aids section

Grid lines
Grid lines are the borders around the cells of a spreadsheet when viewed onscreen. The options are: Show, Show on colored cells, or Hide. If grid lines are hidden, tables will be displayed on a solid background with no grid around cells. The color choice overrides the selection made in Tools > Options > LibreOffice > Application Colors > Spreadsheet > Grid lines.

Note
To print grid lines, choose Format > Page Style > Sheet > Print > Grid.

Color
Specifies the color for the gridlines. A color can be chosen from different palettes or can be set to Automatic for the default gray.

Pointer
When the mouse pointer lies over the grid of cells on a Calc spreadsheet, the default pointer (“System”) is normally shown, typically as an arrow pointer. However, an alternative pointer (“Themed”) is available to allow you to switch to using the pointer shape defined in the icon theme (typically a “fat” cross, Figure 13).

Figure 13: Themed cursor

Page breaks
Specifies whether to view the page breaks within a defined print area.

Helplines while moving
Specifies whether to view helplines when moving drawings, frames, graphics, and other objects. These lines help you align objects.

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In Figure 14, the graph with the dark background represents the image in its original location. The lighter area represents the position of the image as it is being moved. Helplines are the horizontal and vertical dotted lines at the corners of the lighter object.

**Objects section**
Choose whether to show or hide graphics, charts, and drawing objects.

**Zoom section**
Select the *Synchronize sheets* option to apply any selected zoom (magnification) factor to all sheets in the spreadsheet. If this option is not selected, separate zoom factors can be applied to individual sheets.

**Figure 14**: Helplines visible when moving a graphic

**Calculate**
Use the *LibreOffice Calc – Calculate* page (Figure 15) to define the calculation settings for spreadsheets.
**Formulas Wildcards section**

**Enable wildcards in formulas**
Specifies that wildcards are enabled when searching and also for character string comparisons. Select this option for spreadsheets that need to be interoperable with Microsoft Excel.

**Enable regular expressions in formulas**
Specifies that regular expressions instead of simple wildcards are enabled when searching and also for character string comparisons. Do not enable regular expressions in formulas for spreadsheets that need to be interoperable with Microsoft Excel.

**No wildcards or regular expressions in formulas**
Specifies that only literal strings are used when searching and also for character string comparisons. Do not disable wildcards in formulas for spreadsheets that need to be interoperable with Microsoft Excel.

The options listed above are mutually exclusive. For more information about them, see Chapter 8, Using Formulas and Functions.

**Date section**
Select the start date for the internal conversion from days to numbers.

- **12/30/1899** (default) – Sets December 30, 1899 as day zero.
- **01/01/1900** (StarCalc 1.0) – Sets January 1, 1900 as day zero. Use this setting for StarCalc 1.0 spreadsheets containing date entries.
- **01/01/1904** – Sets January 1, 1904 as day zero. Use this setting for spreadsheets that are imported from foreign formats.

**General Calculations section**
Specify a variety of options relevant to spreadsheet calculation.

**Case sensitive**
Specifies whether to distinguish between upper and lower case in texts when comparing cell contents. For example: type 'Test' in cell A1; and 'test' in B1. Then type the formula =A1=B1 in cell C1. If the Case sensitive option is checked, FALSE will appear in the cell; if the analysis was case insensitive, TRUE will appear in the cell. This option is not applied to the EXACT text function, which is always case-sensitive.
**Precision as shown**
Specifies whether to make calculations using the rounded values displayed in the sheet. Charts will be shown with the displayed values. If the **Precision as shown** option is not marked, the displayed numbers are rounded, but they are calculated internally using the non-rounded number.

**Search criteria = and <> must apply to whole cells**
The default search method in Calc is to search for any instance of the target regardless of the position of the target within a word. For example, when searching for day, Calc will match Friday, Sunday, and days. Select this option to search an exact occurrence of the target. Wildcard symbols can be used to expand the search to match the default condition.

**Automatically find column and row labels**
Calc will name the range of data, under a column heading or to the right of a row heading, using the text in those headings.
Example: Cell E5 contains the text Europe. Below, in cell E6, is the value 100 and in cell E7 the value 200. If the **Automatically find column and row labels** option is selected, you can write the following formula in cell A1: =SUM(Europe).

**Limit decimals for general number format**
Limits the number of decimals to be displayed for numbers with the general number format. This overrides the setting applied in the General option of the Format section inside the Number Category in **Format > Cells > Numbers**. This setting refers to how numbers are displayed. When decimal places are limited, calculations are not affected because of rounding.

**Iterative References section**
Iterative references are formulas that are continuously repeated until the problem is solved. In this section you can choose the number of approximation steps carried out during iterative calculations and the degree of precision of the answer.

**Iterations**
Select this option to enable iterations. If this option is not selected, an iterative reference causes an error message.

**Steps**
Sets the maximum number of iteration steps.

**Minimum change**
Specifies the difference between two consecutive iteration step results. If the result of the iteration is lower than the minimum change value, then the iteration will stop.

**CPU Threading Settings section**
**Enable multi-threaded calculation**
Controls the use of multi-threading / parallelism, which can be used to speed up LibreOffice Calc calculations on computers with multiple processing cores. See Chapter 8, Using Formulas and Functions for more information.

**Caution**
When calculations involve a range that includes an empty cell, take note of the setting for **Zero values** in the **LibreOffice Calc > View** options. If this option is not selected, a value of zero will display as an empty cell. Empty cells and the value zero are treated differently by many functions. For example, COUNT will not include an empty cell as an item to be counted. The average of eight cells, one of which contains the value zero, is not the same as the average of eight cells, one of which is empty (an empty cell is not included in determining the average).
Use the LibreOffice Calc – Formula page (Figure 16) to specify the following formula options.

**Formula syntax**
Syntax is the format in which formulas are written. Choose the syntax most appropriate for your work. If you regularly open or save to Microsoft Excel formats, you may wish to use one of the Excel syntaxes.

To illustrate the differences between syntaxes, assume a spreadsheet contains two sheets.

The cell C4 can be referenced in three ways:
- Calc A1 =Sheet2.C4 – the default syntax for Calc.
- Excel A1 =Sheet2!C4 – the default of Microsoft Excel.

**Use English function names**
The default names for functions in Calc are those for the user's locale. For English users, the localized names are the same as the English names. When the language set by locale is not English, you may wish to express functions in English; if so, select this option to change formula input and display, Function Wizard, and formula tips.

**Separators**
Separators are used in functions to distinguish points in the range used in the function: the symbols used between elements. Enter the separator character to be used for functions, row arrays, and column arrays. For example, a comma can be used as a separator in functions and instead of writing =SUM(A1;B1;C1) the function would be expressed as =SUM(A1,B1,C1).

**Detailed Calculation Settings**
Most users will not need to change the default setting. For custom settings, select Custom and click Details to choose reference syntax and whether to treat empty strings as zero.

**Recalculation on File Load**
Recalculating formulas can take significant time while loading very large files.
Excel 2007 and newer. Loading a large spreadsheet file can take a long time. If you do not need to update your large spreadsheet data immediately, you can postpone the recalculation to a better time. Calc allows you to defer recalculation of Excel 2007 (and more recent) spreadsheets to speed up loading time.

ODF spreadsheet (not saved by LibreOffice). Recent versions of Calc cache spreadsheet formula results in its ODF file. This feature helps Calc to recalculate a large ODF spreadsheet saved by Calc faster. For ODF spreadsheets saved by other programs, where such cached formula results may not exist, recalculation can be deferred to speed up file loading as with Excel 2007 files.

For each of these two options, the following choices are possible: Never recalculate (no formulas will be recalculated on loading the file), Always recalculate (all formulas will be recalculated on file load), and Prompt user (prompt user for action).

Calc saved ODF spreadsheets will honor Never recalculate and Always recalculate options.

Sort lists
View, define, delete, and edit sort lists on the LibreOffice Calc – Sort Lists page. Sort lists are used for more than sorting, for example filling a series of cells during data entry. They are lists that are sorted in a particular order but not alphabetically or numerically; for example, days of the week. In addition to the supplied lists, you can define and edit your own lists, as described in Chapter 2, Entering and Editing Data.

Figure 17: Defining sort lists in Calc

Changes
On the LibreOffice Calc – Changes page you can assign specific colors for insertions, deletions, and other changes, or you can let Calc assign colors based on the author of the change; in the latter case, one color will apply to all changes made by that author. The selections made here are applied when change recording is enabled by Edit > Track Changes > Record on the Menu bar.
Compatibility

The *LibreOffice Calc – Compatibility* page provides a quick way to switch between LibreOffice’s default key bindings and OpenOffice.org’s legacy default key bindings for Calc. Most of the defaults are identical, but there are some differences.

The actions associated with the two key binding choices are shown in the table below.

<table>
<thead>
<tr>
<th>Key Binding</th>
<th>Default</th>
<th>OpenOffice.org legacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backspace</td>
<td>Opens Delete Contents dialog</td>
<td>Immediately deletes contents</td>
</tr>
<tr>
<td>Delete</td>
<td>Immediately deletes contents</td>
<td>Opens Delete Contents dialog</td>
</tr>
<tr>
<td>Control+D (Command+D on macOS)</td>
<td>Fills cell content down within selection</td>
<td>Opens the Selection List dialog</td>
</tr>
<tr>
<td>Alt+DownArrow (Option+DownArrow on macOS)</td>
<td>Select header of range; no action in empty cell</td>
<td>Increases row height</td>
</tr>
</tbody>
</table>

Grid options

The *LibreOffice Calc – Grid* page defines the grid settings for spreadsheets. Using a grid helps you determine the exact position of any charts or other objects you may add to a spreadsheet. You can also set this grid in line with the snap grid.

If you have activated the snap grid but wish to move or create individual objects without snap positions, you can press the *Ctrl* key to deactivate the snap grid for as long as needed.

**Grid section**

*Snap to grid* activates the snap function.
Visible grid displays grid points on the screen. These points are not printed.

Resolution and Subdivision sections
Here you can set the unit of distance for the spacing between horizontal and vertical grid points and subdivisions (intermediate points) of the grid.

Synchronize axes changes the current grid settings symmetrically.

![Calc grid options](image)

Figure 19: Calc grid options

Print options
Use the LibreOffice Calc – Print page to choose defaults for printing spreadsheets. You can override these for individual print jobs.

![Calc Print options](image)

Figure 20: Calc Print options

Default colors for charts
Use Tools > Options > Charts > Default Colors to change the default colors used for charts or to add new data series to the list provided.

To add new colors to the choices, see “Adding custom colors” below.

To change the default color for a data series, select it in the left-hand column and then click on the required color in the color table.

To add another data series, click Add, then select the new series and click on the required color.

Click Default to restore the color settings that were defined when the program was installed.
You can customize menus, toolbars, keyboard shortcuts, and the tabbed interface; add new menus and toolbars; and assign macros to events.

**Tip**

Changes to menus and toolbars can be saved in a template. First, save them in a document; then, save that document as a template, as described in Chapter 5, *Using Styles and Templates.*

**Menu content**

You can add and rearrange menus on the Menu bar or context (right-click) menus; add, rearrange, and remove commands on menus; and make other changes.
To customize menus, choose **Tools > Customize** on the Menu bar. On the Customize dialog, go to the **Menus** tab (Figure 22) or the **Context Menus** tab. The following examples focus on the **Menus** tab but the **Context Menus** tab is similar in appearance and behavior.

![Customize dialog](image)

**Figure 22:** The Menus tab of the Customize dialog

**Modifying an existing menu**

1) In the **Scope** drop-down list in the upper right of the Customize dialog, choose whether to save this changed menu for Calc or for a selected document.

2) In the **Target** drop-down list, select the menu that you want to customize. The list includes all the sub-menus as well as the main menus. The commands on the selected menu are shown in the **Assigned Commands** list below.

3) To add a command to the selected menu, click on a command in the **Available Commands** list and then click the right arrow. You can narrow the search by using the **Search** box on the top left or selecting the **Category** in the drop-down list. Use the up and down arrows on the far right-hand side to move the command into the place where you want it in the **Assigned Commands** list.

4) To remove a command from the selected menu, click on it in the **Assigned Commands** list and then click the left arrow.

5) To insert a separator or submenu, use the commands in the **Insert** drop-down under **Customize** at the bottom right.
To rename a menu item, select it in the Assigned Commands list and choose Rename in the Modify drop-down below.

Use the Reset button to reset Calc's menu configuration to the default settings.

When you have finished making all your changes, click OK to save them.

Creating a new menu

1) On the Menus tab of the Customize dialog, click the button next to the Target field (Figure 25) and select Add in the drop-down list, to display the New Menu dialog (Figure 26).

2) In the New Menu dialog, type a name for the new menu in the Menu name box.

3) Use the up and down arrow buttons to move the new menu into the required position on the Menu bar. Click OK to save and return to the Customize dialog.

The new menu now appears on the list of menus in the Customize dialog. It will appear on the Menu bar itself after you save your customizations.

After creating a new menu, you need to add some commands to it, as described above for modifying a menu.
Creating an accelerator

You can allocate a letter in a custom menu’s name to be used as a keyboard shortcut. (That letter will become underlined.) When you press Alt+that letter, that menu or command will be invoked. Existing submenus can also be edited to change the letter which is used to select them using the keyboard when the menu is open.

To create an accelerator:

1) On the Customize dialog, select a menu item in the Assigned Commands list.
2) Click the Modify button and select Rename.
3) Add a tilde (~) in front of the letter to use as an accelerator.
4) Click OK to save the change.

For example, if you enter “~Art”, the “A” in the menu item Art is now underlined. Press Alt+A and the Art menu will open.

Caution

When assigning an accelerator, be careful not to use a letter that is already assigned to a menu or command associated with a menu item. The same letter-key combinations can be used for commands associated with different menu items but not for those associated with the same menu or menu item.

Toolbars

You can customize toolbars in several ways, including choosing which icons are visible and locking the position of a docked toolbar, as described in Chapter 1, Introducing LibreOffice, of the Getting Started Guide. This section describes how to create new toolbars and add or delete icons (commands) on a toolbar.
To get to the toolbar customization dialog (Figure 27), do any of the following:

- On the toolbar, right-click in the toolbar and choose **Customize Toolbar**.
- Choose **View > Toolbars > Customize** on the Menu bar and go to the **Toolbars** tab.
- Choose **Tools > Customize** on the Menu bar and go to the **Toolbars** tab.

![Customize dialog](image)

*Figure 27: The Toolbars tab of the Customize dialog*

To customize a toolbar:

1) In the **Scope** drop-down list on the upper right of the Customize dialog, choose whether to save this changed toolbar for Calc or for a selected document.

2) In the **Target** drop-down list, select the toolbar that you want to customize. The current toolbar content is displayed in the **Assigned Commands** list.

3) Select the command to be added in the **Available Commands** list. You can narrow your search by using the **Search** box on the top left or choosing a category in the drop-down list just below.

4) Click on the large right arrow to add the command to the **Assigned Commands** list for the toolbar. Use the up and down arrows in the far right to position the command in the toolbar.

5) To remove a command from a toolbar, select it in the **Assigned Commands** list and click the large left arrow.

6) To show or hide a command assigned to a toolbar, mark or clear the checkbox next to its icon in the **Assigned Commands** list.
7) To insert a separator, use the command in the *Insert* drop-down under *Customize* at the bottom right.

8) To rename a toolbar item, select it in the *Assigned Commands* list and choose *Rename* in the *Modify* drop-down.

9) Use the *Reset* button to reset Calc's toolbar configuration to the default settings.

10) When you have finished making all your changes, click **OK** to save them.

**Creating a new toolbar**

To create a new toolbar:

1) Choose **Tools > Customize** on the Menu bar.

2) On the *Toolbars* tab of the Customize dialog, click the button next to the *Target* field and select **Add** in the drop-down list, to display the Name dialog.

3) On the Name dialog, type the new toolbar's name and choose in the *Save In* drop-down list where to save this new toolbar – for Calc or for the open document.

The new toolbar now appears on the list of toolbars in the Customize dialog.

To add commands to the new toolbar, follow the instructions earlier for modifying a toolbar.

**Choosing icons for toolbar commands**

Toolbar buttons can be displayed with **Icon only**, **Text only**, or **Icon and text**. This selection is made through the menu that drops down from the button to the right of the *Target* field. However, not all of the commands have associated icons.

To choose an icon for a command, select the command and click **Modify > Change Icon**. On the Change Icon dialog (Figure 28), scroll through the available icons, select one, and click **OK** to assign it to the command.

![Change Icon dialog](image)

*Figure 28: Change Icon dialog*

To use a custom icon, create it in a graphics program and import it into LibreOffice by clicking the **Import** button on the Change Icon dialog. For best quality, custom icons should be 24 x 24 pixels in size; other sizes will be scaled automatically.

Select **Modify > Reset Icon** to revert to the option's default icon.
Tabbed interface

By default, Calc’s commands are grouped in cascading menus and in toolbars filled with icons. In addition, LibreOffice provides other user interface variants, displaying contextual groups of commands and contents. You can find more information about these variants and how to switch between them in Chapter 16, User Interface Variants.

Three of LibreOffice’s user interface variants utilize a notebook bar and these are the Tabbed, Tabbed Compact, and Groupedbar Compact options. In these variants, the area at the top of the workspace is divided into tabs, where each tab displays a set of icons grouped by context. The context can change depending on the object selected in the document, for example a table or an image.

Use the checkboxes on the Notebookbar tab of the Customize dialog (Figure 29) to show and hide the individual options on the various tabs that are provided in the most recently selected of the three tabbed user interfaces (with Tabbed being the initial default).

![Figure 29: The Notebookbar tab of the Customize dialog](image)

Use the Reset button to reset the displayed configuration to the default settings.

Keyboard shortcuts

In addition to using the built-in keyboard shortcuts (listed in Appendix A), you can define your own. You can assign shortcuts to standard LibreOffice functions or your own macros and save them for use with the entire LibreOffice suite or only for Calc.

Caution

Avoid reassigning your operating system’s predefined shortcut keys.
Note

Shortcut keys that are grayed out in the listing on the Customize dialog, such as F1 and F10, are not available for reassignment.

To adapt shortcut keys to your needs, use the Customize dialog, as described below.

1) Select Tools > Customize on the Menu bar and select the Keyboard tab. (Figure 30).

![Figure 30: Customizing a keyboard shortcut](image)

2) To have the shortcut key assignment available only with Calc, select Calc in the upper right corner of the page; otherwise select LibreOffice to make it available to every component.

3) Next select the required function in the Category and Function lists.

4) Now select the desired shortcut keys in the Shortcut Keys list and click the Modify button at the upper right.

5) Click OK to accept the change. Now the chosen shortcut keys will execute the function chosen in step 3) above whenever they are pressed.

Note

All existing shortcut keys for the currently selected Function are listed in the Keys selection box. If the Keys list is empty, it indicates that the chosen key combination is free for use. If it were not, and you wanted to reassign a shortcut key combination that is already in use, you must first delete the existing key.
**Saving changes to a file**

Changes to the shortcut key assignments can be saved in a keyboard configuration file for use at a later time, thus permitting you to create and apply different configurations as the need arises, or to create a standard keyboard configuration file to be distributed among many users. To save keyboard shortcuts to a file:

1) After making your keyboard shortcut assignments, click the **Save** button on the right of the Customize dialog (Figure 30).

2) In the Save Keyboard Configuration dialog, enter a name for the keyboard configuration file in the **File name** box, or select an existing file (the file extension is .cfg for Configuration).

3) Click **Save**. A confirmation dialog appears if you are about to overwrite an existing file, otherwise there will be no feedback and the file will be saved.

**Loading a saved keyboard configuration**

To load a saved keyboard configuration file and replace your existing configuration, click the **Load** button on the right of the Customize dialog, and then select the configuration file from the Load Keyboard Configuration dialog.

**Resetting the shortcut keys**

To reset all of the keyboard shortcuts to their default values, click the **Reset** button on the right of the Customize dialog (adjacent to the **Load** and **Save** buttons). Use this feature with care as no confirmation dialog will be displayed; the defaults will be set without any further notice or user input.

**Running macros from key combinations**

You can also define shortcut key combinations that will run macros. These shortcut keys are strictly user-defined; none are built in. For more information on macros, see Chapter 13, Macros.

**Assigning macros to events**

In LibreOffice, when something happens, we say that an event occurred. For example, a document was opened, a key was pressed, or the mouse moved. You can associate a macro with an event, so the macro is run when the event occurs. A common use is to assign the “open document” event to run a macro that performs certain setup tasks for the document.

To associate a macro with an event, use the **Events** tab of the Customize dialog. For more information, see Chapter 13, Getting Started with Macros, in the *Getting Started Guide*.

**Adding functionality with extensions**

An extension is a package that can be installed into LibreOffice to add new functionality.

Although individual extensions can be found in different places, the official LibreOffice extension repository is at [https://extensions.libreoffice.org/](https://extensions.libreoffice.org/). These extensions are free of charge. Extensions from other sources may be free or may be available for a fee. Check the descriptions to see what licenses and fees apply to the ones that interest you.

**Installing extensions**

To install an extension that is listed in the repository, follow these steps:

1) In LibreOffice, select **Tools > Extension Manager** on the Menu bar, or press **Ctrl+Alt+E**. In the Extension Manager dialog, click the **Get more extensions online** link.
2) A browser window will open. Find the extension you want and download it to your computer.

3) After the extension is downloaded and saved, return to the Extension Manager dialog and click Add. Find and select the extension you want to install and click Open. The extension begins installing. You may be asked to accept a license agreement.

4) When the installation is complete, the extension is listed in the Extension Manager dialog.

To install an extension that is not listed in the repository, download the extension, then continue with step 3)) above.

**Updating extensions**

Click the **Check for Updates** button on the Extension Manager dialog to check for updates to installed extensions.

**Removing and disabling extensions**

To remove (uninstall) an extension that you installed, select the extension in the main window of the Extension Manager dialog and click the **Remove** button.

To disable an extension without removing (uninstalling) it, select the extension in the main window of the Extension Manager dialog and click the **Disable** button, which then changes to **Enable**.

**Tip**

Extensions can be installed from some other places in Calc, such as the Gallery on the Sidebar, the Templates dialog, the Language Settings > Writing Aids page of the **Tools > Options** dialog and the Icon Style section in the View page of the **Tools > Options** dialog. In each of these places you will find a small button leading to a filtered view of the items in the Extensions dialog.

**Note**

In some cases, the **Remove** and **Disable** buttons may be unavailable, for example when you have selected one of the extensions that was bundled with your LibreOffice installation.
Adding custom colors

The method for defining a custom color is as follows:

1) Insert any drawing object, such as a square, into any document.
2) Right-click on the object and choose Area in the context menu.
3) Click on the Color button on the Area tab (Figure 32). In the Palette drop-down in the Colors area, choose which palette you wish to add the new color to. Under New, define the new color using RGB or Hex notation, or click the Pick button to select the color on the Pick a Color dialog (Figure 33).
4) Click Add in the lower left corner, enter a name for the new color in the pop-up dialog, and click OK to save.
5) Delete the drawing object from the document, if it is not needed.
Figure 32: Defining a new color

Figure 33: Defining a color by picking it from a color chart