# **Libre**Office

## Calc Guide

## Chapter 14 Setting up and Customizing

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## 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 and Appendix A (Keyboard Shortcuts) to this guide.

Windows or Linux	macOS equivalent	Effect
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
Ctrl (Control)	Ж (Command)	Used with other keys
Ctrl+Q	₩+Q	Exit / quit LibreOffice
F11	<b>೫</b> +7	Open the Sidebar's Styles deck

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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. Other general options are discussed in Chapter 2, Setting up LibreOffice, in the *Getting Started Guide*.

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

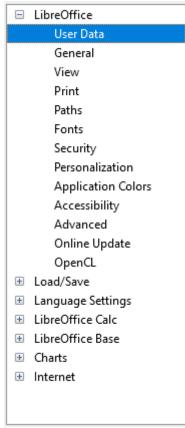


Figure 1: LibreOffice options



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" on page 22.

See Chapter 6, Printing, Exporting, E-mailing, 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	
Adjust security related options and define warnings for hidden information in documents.	Options
Passwords for Web Connections	
Persistently <u>save</u> passwords for web connections	Connections
Protected by a master password (recommended)	-
Passwords are protected by a master password. You will be asked to enter it once per session, if LibreOffice retrieves a password from the protected password list.	Master Password
Macro Security	
Adjust the security level for executing macros and specify trusted macro developers.	Macro Securit <u>y</u>
TSAs	
Maintain a list of Time Stamping Authority (TSA) URLs to be used for digital signatures in PDF export.	<u>T</u> SAs
- Figure 2: Choosing security options for opening and saving docu	ments

#### 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 (not shown here) 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 (not shown here), 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.

Security Options and Warnings		×			
Security Warnings					
Warn if document contains r	ecorded changes, versions, hidden information or notes:				
When saving or sending	☑ When <u>s</u> igning				
When <u>p</u> rinting	□ When creating PDF <u>f</u> iles				
Security Options					
<u>Remove personal informa</u>	<u>Remove personal information on saving</u>				
Recommend password protection on saving					
✓ Ctrl-click required to open hyperlinks					
Block any links from docu	ments not among the trusted locations (see Macro Securi	ty)			
<u>H</u> elp	<u>OK</u> <u>C</u> ancel				

Figure 3: Security Options and Warnings dialog

## **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 from the drop-down list.

Color Scheme									
<u>S</u> cheme:	LibreOffice			∨ <u>S</u> ave	<u>D</u> elete				
Custom Cole	Custom Colors								
On User	interface elements	Color setting							
Spreadshe	eet				^				
Grid lines		Automatic	•						
Page	breaks	Automatic	•						
Manual page breaks		Automatic	•		- 1				
Auto	matic page breaks	Automatic	•						
Detec	tive	Automatic	•						
Detec	tive error	Automatic	•						
Refer	ences	Automatic	•						
		· · ·			~				

Figure 4: Changing the color of elements in Calc

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**.

## **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 12, 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.

Load ☑ Load user-specific settings with the document ☑ Load printer settings with the document						
Save						
Save <u>A</u> utoRecovery	r information every: 10 🚔 minutes					
□ <u>E</u> dit document pro	perties before saving					
Al <u>w</u> ays create back	□ Al <u>w</u> ays create backup copy					
Save URLs relative	☑ Save URLs relative to file system					
Save URLs relative	Save URLs relative to internet					
Default File Format an	d ODF Settings					
ODF format version:	1.3 Extended (recommended)					
D <u>o</u> cument type:	Text document					
Always sa <u>v</u> e as:	ODF Text Document (*.odt)					
☑ Warn when not savi	ing in ODF or default format					

Figure 5: Choosing Load and Save general options

#### **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.

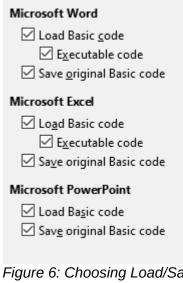


Figure 6: Choosing Load/Save VBA Properties

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 and 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.

Er	nbe	ddeo	d Objects				
	[L]	[S]					
	~	$\checkmark$	MathType to LibreOffice Math or reverse				
	$\checkmark$	$\checkmark$	WinWord to LibreOffice Writer or reverse				
	$\checkmark$	$\checkmark$	Excel to LibreOffice Calc or reverse				
	$\checkmark$	$\checkmark$	PowerPoint to LibreOffice Impress or reverse				
			SmartArt to LibreOffice shapes or reverse				
	$\checkmark$		Visio to LibreOffice Draw or reverse				
	$\checkmark$		PDF to LibreOffice Draw or reverse				
	[L]: Load and convert the object [S]: Convert and save the object						
C	Character Highlighting Lock files						
	Expo	ort a	s: 🔿 Highlighting 🔘 Shading	Create MSO lock file			

Figure 7: Choosing Load/Save Microsoft Office options

The *Character Highlighting* options enable a user 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** checkbox 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 HTML pages imported into LibreOffice and those exported from LibreOffice. 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 12, 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 the Internet server when uploading using FTP.

#### **Character set**

Select the appropriate character set for the export.

Font Sizes			Import
Size <u>1</u> :	7	<b>•</b>	Use 'English (USA)' locale for numbers
Size <u>2</u> :	10	<b>•</b>	Import unknown HTML tags as fields
Size <u>3</u> :	12	* *	Ignore <u>f</u> ont settings
Size <u>4</u> :	14	•	Export LibreOffice Basic
Size <u>5</u> :	18	* *	☑ Display <u>w</u> arning
Size <u>6</u> :	24	-	Print layout
Size <u>7</u> :	36	+	✓ Copy local images to Internet
			Character <u>s</u> et: Unicode (UTF-8)

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 10).

LibreOffice
Load/Save
Language Settings
LibreOffice Calc
General
Defaults
View
Calculate
Formula
Sort Lists
Changes
Compatibility
Grid
Print
LibreOffice Base
Charts
🗄 Internet

Figure 9: Calc options

### 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

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

#### Update links when opening

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**.

Metrics						
Measurement <u>u</u> nit:	lnch	~				
<u>T</u> ab stops:	0.50"	<b></b>				
Jpdate links when op	ening					
<ul> <li>○ <u>A</u>lways (from tru:</li> <li>○ <u>O</u>n request</li> <li>○ <u>N</u>ever</li> </ul>	sted location	ns)				
nput Settings						
Press Enter to mo	ve selection	Down 🗸				
Press Enter to sw	itch to <u>e</u> dit ı	mode				
Expand <u>f</u> ormattir	ig					
Expand <u>r</u> eference	Expand references when new columns/rows are inserted					
Update references when sorting range of cells						
Highlight sele <u>c</u> ti	on in colum	n/row headers				
Use printer metrics for text formatting						
Show overwrite <u>w</u> arning when pasting data						
Position cell refer	ence with s	election				

Figure 10: Selecting general options for Calc

#### Input Settings section

#### Press Enter to move selection

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

#### Press Enter to switch to edit mode

Specifies that pressing *Enter* puts the selected cell into edit mode. To end edit mode and move the cursor in the desired direction, press *Enter* again.

#### **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.

#### 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 in blue; and formulas, logical values, dates, and so on, in green. When this option is active, any colors assigned in the document are not displayed.

Display	Visual Aids		
<ul> <li>☐ <u>F</u>ormulas</li> <li>✓ Zero val<u>u</u>es</li> <li>✓ <u>C</u>omment indicator</li> <li>☐ Value highlighting</li> <li>✓ <u>A</u>nchor</li> <li>✓ Te<u>x</u>t overflow</li> <li>✓ <u>S</u>how references in color</li> </ul>	<u>G</u> rid lines: <u>C</u> olor: ☑ <u>P</u> age breaks ☑ Helplines <u>w</u> hil	Show Automatic e moving	~ ~
Window	Objects		
Colu <u>m</u> n/row headers	Objects/Images:	Show	$\sim$
✓ Horizontal scroll bar ✓ Vertical scroll bar	Cha <u>r</u> ts:	Show	$\sim$
✓ Sh <u>e</u> et tabs ✓ Outline symbols	Drawing objects:	Show	$\sim$
Summary o <u>n</u> search			
Zoom			
Synchronize sheets			

Figure 11: Selecting view options for Calc

#### 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 hight of the expanded cell.

#### 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.

112	-		4.2,000.00	+_0,0_0.00	+	+		
	10	Employee #8	\$0.00	\$35,720.00	\$48,550.00	\$84,270.00	- 2	14110-2110
	11	Total	\$237,374.00	\$284,301.00	\$311,185.00	\$832,860.00	=SI	UM(B11:F11)
1	12							

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, Editing, and Formatting 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 > Sheet > Print > Grid**.

#### 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.

In Figure 13, 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 13: Helplines visible when moving a graphic

## Calculate

Use the *LibreOffice Calc – Calculate* page (Figure 14) to define the calculation settings for spreadsheets.

Formulas wildcards	Date
<ul> <li>Enable wildcards in formulas</li> <li>Enable regular expressions in formulas</li> <li>No wildcards or regular expressions in formul</li> </ul>	<ul> <li>12/30/1899 (default)</li> <li>01/01/1900 (StarCalc 1.0)</li> <li>as</li> <li>01/01/1904</li> </ul>
General Calculations	
<ul> <li>Case sensitive</li> <li>Precision as shown</li> <li>Search criteria = and &lt;&gt; must apply to whole</li> <li>Automatically find column and row labels</li> <li>Limit decimals for general number format</li> <li>Decimal places: 2</li> </ul>	cells
Iterative References	
Iterations	
<u>S</u> teps: 100 €	
Minimum change: 0.001	
CPU threading settings	
Enable multi-threaded calculation	

Figure 14: Calc calculation options

#### 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 7, 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. Wild card 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 **Format > Cells > Numbers > Number > General**. This setting refers to how numbers are displayed. When decimal places are limited, calculations are not affected because of rounding.

#### 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 7, Using Formulas and Functions for more information.

#### **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.

### 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 would 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 seven cells (an empty cell is not included in determining the average).

## Formula

Use the *LibreOffice Calc – Formula* page (Figure 15) 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.

Excel R1C1 =Sheet2!R[3]C[2] – the relative row and column addressing used in Excel.

#### Formula Options

Formula <u>s</u> yntax:	Calc A1		$\sim$					
🗌 <u>U</u> se English fu	nction names							
Separators								
<u>F</u> unction:	,							
Array co <u>l</u> umn:	,							
Array <u>r</u> ow:	Rese <u>t</u> Separators S	ettings						
Detailed Calculation	n Settings							
<u>D</u> efault setting	js							
O <u>C</u> ustom (conv	O <u>C</u> ustom (conversion of text to numbers and more): Deta <u>i</u> ls							
Recalculation on Fil	le Load							
<u>E</u> xcel 2007 and ne	ewer:	Never recalculate	$\sim$					
ODF spreadsheet	(not saved by LibreOffice):	Never recalculate	~					

Figure 15: Formula options

#### 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 don't 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, 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, Editing, and Formatting Data.

<u>L</u> ists		<u>E</u> ntries	New
Jan, Feb, Mar, Apr, May January, February, Ma Sunday, Monday, Tue	hu, Fri, Sat esday, Wednesday, Thi y, Jun, Jul, Aug, Sep, Oc arch, April, May, June, J esday, Wednesday, Thi mmuz, Av, Elul, Tishri, H	Sun Mon Tue Wed Thu Fri Sat	<u>A</u> dd
Copy list from: \$Sh	neet1.\$A\$1		<u>С</u> ору

Figure 16: Defining sorting lists in Calc

### Changes

On the *LibreOffice Calc - Changes* page you can specify options for highlighting recorded changes in spreadsheets. 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 under **Edit > Track Changes > Record** on the Menu bar.

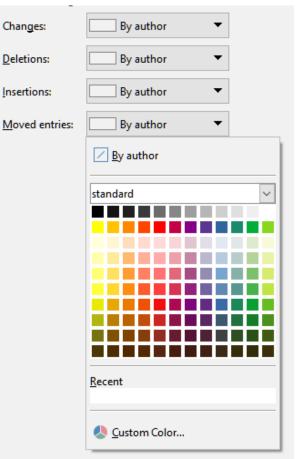


Figure 17: Calc options for highlighting changes

## 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.

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

## **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.

			Α					В					С		
Grid	13														
Snap to grid	14	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	15														_
✓ Visible grid	16														
	17	•	•	•	•	•	•	•	•	•	•	•	•	•	1
Resolution Subdivision				_	_				-						
H <u>o</u> rizontal	0.50"	-	Ho	rizont	<u>a</u> l		2	\$	spa	ce(s)					
<u>V</u> ertical	0.50"	•	V <u>e</u>	rtical			2	\$	spa	ce(s)					
Synchronize a <u>x</u> es															

Synchronize axes changes the current grid settings symmetrically.

Figure 18: 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.

Pages
✓ Suppress output of empty pages
Always apply manual breaks
Sheets
Print only selected sheets
,

Figure 19: 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" on page 34.

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.

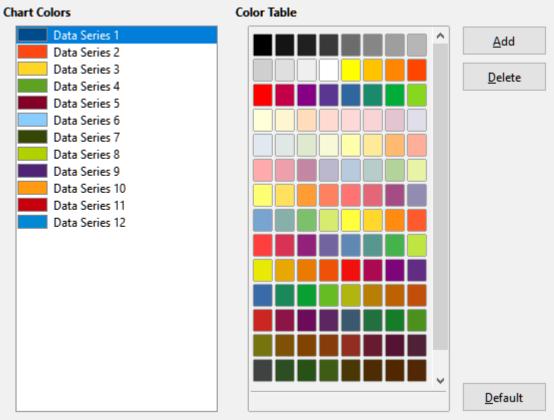


Figure 20: Defining chart colors

## AutoCorrect functions

Some people find some of the options in Calc's AutoCorrect function annoying because they change what you type when you do not want it changed. Many people find some of the AutoCorrect functions quite helpful; if you do, then select the relevant options. But if you find unexplained changes appearing in your document, this is a good place to look to find the cause.

To open the AutoCorrect dialog, click **Tools > AutoCorrect Options** on the Menu bar. You need to have a document open for this menu item to appear.

In Calc, this dialog has four tabs, as shown in Figure 21. Options are described in the Help; many will be familiar to users of other office suites.

AutoCorrect	×
Replacements and exceptions for language: English (USA)	1
Replace Exceptions Options Localized Options	
Use replacement table         Correct TWo INitial CApitals         Capitalize first letter of every sentence         Automatic *bold*, /italic/, -strikeout- and _underline_         ✓ URL Recognition         ✓ Replace dashes         Ignore double spaces         Correct accidental use of cAPS LOCK key	
Help Reset OK Cancel	

Figure 21: The AutoCorrect dialog in Calc

## **Customizing the user interface**

You can customize menus, toolbars, keyboard shortcuts, and the notebook bar; add new menus and toolbars; and assign macros to events.

## 👔 Tip

Changes to menus and toolbars can be saved in a template. First, save the document that was open when these changes were made. Then, save that document as a template, as described in Chapter 4, 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	×
Menus Toolbars Notebookbar Context Menus Keyboard	d Events
Search	S <u>c</u> ope
Type to search	LibreOffice Calc
Category	Target
All commands 🗸 🗸	File ~ 🙆
<u>A</u> vailable Commands	Assigned Commands
100%	New ^
150%	🧀 Open
200%	🧰 Open Remote
3D Color	Recent Documents
50%	Close
75%	
About LibreOffice	🕼 Wizards
? Absolute Record	Templates ,
Activation Order	
Add	Reload
On Add Decimal Place	Versions
Add Field	····· ·
< >>	< >
Description	<u>C</u> ustomize
	Insert ▼ Modify ▼ Defaults
<u>H</u> elp	<u>R</u> eset <u>O</u> K <u>C</u> ancel

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.

<u>C</u>ustomize



Figure 23: Customize dialog, Menus tab, Insert drop-down

6) To rename a menu item, select it in the *Assigned Commands* list and choose **Rename** from the *Modify* drop-down below.

Insert 💌	Modify 🔻	Defaults
----------	----------	----------

Figure 24: Customize dialog, Menus tab, Modify drop-down

- 7) Use the **Reset** button to reset Calc's menu configuration to the default settings.
- 8) When you have finished making all your changes, click **OK** to save them.

#### Creating a new menu

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

<u>T</u> arget			
File	~	$\bigcirc$	
Function	<u>A</u> dd		
New	<u>M</u> ov	'e	
Open			

Figure 25: Location of command to add a new menu

- 1) Type a name for the new menu in the *Menu name* box.
- 2) 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.

New Menu		×
<u>M</u> enu name:		
New Menu 1		
Menu <u>p</u> osition:		
Edit		^
View		
Insert		
Format		
Styles		
Sheet		<b>1</b>
Data		+
Tools		
Window		
Help		
New Menu 1		
		~
Help	<u>O</u> K	<u>C</u> ancel

Figure 26: Adding a new 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) Select a menu item from 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.

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.
- Choose **Tools > Customize** on the Menu bar and go to the *Toolbars* tab.

Customize		×
Menus Toolbars Notebookbar Context Men	us Keyboa	rd Events
Search		S <u>c</u> ope
Type to search		LibreOffice Calc 🗸
Category		
All commands	·	Formatting ~ 📀
Available Commands	_	Assigned Commands
100%	•	🗆 🗛 Styles 🔷
150%		Apply Style
200%		
3D Color		A Font Name
50%		
75%		A Font Size
About LibreOffice  Absolute Record		$\square A Increase$ $\square \Delta^{\downarrow} Decrease$
Activation Order		
Add		B Bold
On Add Decimal Place		☑ Ţ Italic
Add Field	,	🗹 Ū Underline
< >		Dauble Underline
Description		<u>C</u> ustomize
		Insert ▼ Modify ▼ Defaults
Help		<u>R</u> eset <u>O</u> K <u>C</u> ancel

Figure 27: The Toolbars tab of the Customize dialog

To customize a toolbar:

- 1) In the *Scope* drop-down list on the upper right, 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 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 left arrow.

- 6) To show or hide a command assigned to a toolbar, select 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** from 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** from the drop-down list, to display the Name dialog.
- 3) On the Name dialog, type the new toolbar's name and choose from the *Save In* dropdown 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	×
<u>Icons</u> □ □ □ □ B X © □ ₽ ₽ □ 1	l <u>m</u> port
G 🗚 🔽 🗛 🖻 🎛 🗆 🖅 🏧 🏹	
≧ 🔍 🛛 🚇 🔍 🗀 🗀 {} 業	
🗄 🖨 🗗 🗋 🔘 🔂 🔿 🗖	
Note: The size of an icon should be 24x24 pixel to achieve best quality. Different sized icons will be scaled automatically.	
<u>Н</u> еlp <u>О</u> К	<u>C</u> ancel

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.

## Notebook bar

By default, Calc's commands are grouped in cascading menus and in toolbars filled with icons. The notebook bar provides a different way to organize controls and icons, displaying contextual groups of commands and contents. You can find more information about the notebook bar in the Help system, by searching for "notebook bar" in the index.

One of the available notebook bar modes is *Tabbed* – in this mode, the bar is divided into tabs, where each tab displays a set of icons grouped by context. The context can also change depending on the object selected in the document, for example a table or an image.

Checkboxes are provided 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 *Tabbed* mode user interface.

nus Toolba	rs Notebookbar Context Menus Keyboard Events	
S <u>c</u> ope		
LibreOffic	e Calc - Tabbed	~
<u>T</u> arget		
All Comm	ands	•
Assigned (	Commands	
	File Tab   File	
	New	
	Templates	
	Save as Template	
🗹 🧰	Open	
	Recent Documents	
🗹 🚞	Open Remote	
	Save	
	Save As	
	Save Remote	
	Export	
	PDF	

Figure 29: The Notebookbar tab of the Customize dialog

Use the **Reset** button to reset the *Tabbed* mode of the notebook bar configuration to the default settings.



In the LibreOffice 7.0 version of Calc, there are three notebook bar modes that can be selected through the **View > User Interface** menu – *Tabbed*, *Tabbed Compact*, and Groupedbar Compact. However, only the first of these can be modified using the Notebookbar tab of the Customize dialog. The arrow at the right of the Scope field gives the appearance of a drop-down menu but, in this build, it provides no other options.

## **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).
- 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 from 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.



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.

Menus Toolbars Notebo	okbar Conte	kt Menus Keyboard Events	s		
Shortcu <u>t</u> Keys					○ Li <u>b</u> reOffice
F1				~	● C <u>a</u> lc
F2	Cell Edit M	lode			<u>M</u> odify
F3					wouny
F4	Cycle Cell	Reference Types			Delete
F5	Navigator				<u></u>
F6					
F7	Spelling				
F8	Status Exte	ended Selection			<u>L</u> oad
F9	Recalculat	e			-
F10					<u>S</u> ave
F11	Styles				Denet
F12	Group			×	R <u>e</u> set
F <u>u</u> nctions					
Type to search					
<u>C</u> ategory		<u>F</u> unction	<u>K</u> eys		
All commands	^	100%	^		
Internal		150%			
Application		200%			
Templates		3D Color			
Options		50%			
BASIC		75%			
Special Functions		About LibreOffice			
View		Absolute Record			
Insert		Activation Order	~		
Documents	*	<	>		

Figure 30: Customizing a keyboard shortcut

#### 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. 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 12, 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/. 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**.

## 🕗 Note

In some cases, the **Remove** and **Disable** buttons may be unavailable – this will be the case when you have selected one of the extensions that was bundled with your LibreOffice installation.

Extensio	on Manager — 🗆	1 )	×			
*	Estonian spelling dictionary, and hyphenation rules 2008.07.01	Ë	^			
	European Portuguese spelling dictionary, hyphe 16.10.1.2 Natura	4				
£.,	French spelling dictionary, hyphenation rules, and 6.3 Dicollecte	A				
Jr	Dictionnaire «Classique» 6.3 • Synonymes 2.4 • Césures 3.0 Pour signal	ler un				
	Galician spelling dictionary, hyphenation rules, 18.07 Hunspell-gl	A				
trasno	Corrector Volga de Proxecto Trasno. Edición 18.07 «Francisco Mirás» (https:					
*	German (Austria, Germany, Switzerland) spelling dict 2017.01.12	<u> </u>				
*	Greek spelling dictionary, and hyphenation rules 0.9	4	~			
<u>O</u> ptions	Check for Updates Add Remove	<u>)</u> isable				
Bundl	Display Extensions          Bundled with LibreOffice       Installed for all users       Installed for current user         Get more extensions online					
<u>H</u> elp		lose				

Figure 31: The Extension Manager dialog

## 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) Go to the Color tab (Figure 32). From 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.
  - Area  $\times$ Area Shadow Transparency Color Gra<u>d</u>ient B<u>i</u>tmap <u>P</u>attern Ha<u>t</u>ch <u>N</u>one Colors Active New Palette: standard + R 114 114 <u>R</u> 159 \* G G 159 \* В 207 B 207 Hex 729fcf Hex 729fcf Т Pick 🧶 Recent Colors Name  $\times$ Custom Palette Please enter a name for the new color: <u>A</u>dd Color 1 <u>H</u>elp <u>0</u>K Cancel <u>H</u>elp <u>0</u>K Cancel Reset
- 5) Delete the drawing object from the document, if it is not needed.

Figure 32: Defining a new color

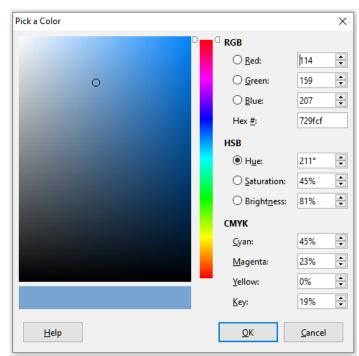


Figure 33: Defining a color by picking it from a color chart