

Writer Guide

Chapter 14 Working with Fields

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Note for Mac users

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

| Windows/Linux | Mac equivalent | Effect |
|--------------------------------|---------------------------|---------------------------------|
| Tools → Options menu selection | LibreOffice → Preferences | Access setup options |
| Right-click | Control+click | Open context menu |
| Ctrl (Control) | ¥ (Command) | Used with other keys |
| F5 | Shift+೫+F5 | Open the Navigator |
| F11 | ∺ + <i>T</i> | Open Styles & Formatting window |

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| Choose the types of conditional content to use | |
| Conditional text Hidden text | |
| Hidden paragraphs | |
| Hidden sections | |
| Plan your conditional content | |
| Choose or define a variable Define a logical expression (condition) involving the selected variable | |
| Create the variable | |
| DocInformation fields | |
| User-defined variable field Apply the condition to the content | |
| Conditional text | |
| Hidden text | |
| Hidden paragraphs Hidden sections | |
| Change the value of the variable | |
| Using placeholder fields | |
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| J F | |

Introduction to fields

Fields are extremely useful features of Writer. They are used for a variety of purposes; for example, data that changes (such as the current date or the total number of pages) or might change (the name of a product or book under development), user-defined numbering sequences, automatic cross-references, and conditional content (words or paragraphs that are visible or printed in some conditions but not others). Index entries are also fields.

This chapter describes some common uses of fields. A full discussion of fields and their use is beyond the scope of this book. Power users can find more details in the application Help.

| Тір | Fields have a gray background when viewed on screen, unless you have deselected the Field shadings option or changed the color of field shadings on the Appearance page of the Options – LibreOffice dialog box. This gray background does not show when you print the file to hard copy or PDF. |
|-----|---|
| | To turn field shadings on or off quickly, choose View \rightarrow Field Shadings or press Control+F8. |

Quick and easy field entry

You can quickly insert common fields into your document by choosing **Insert** \rightarrow **Fields** from the menu bar and selecting the required field from the list, as shown in Figure 1.

| Insert | F <u>o</u> rmat | T <u>a</u> ble | Ī | ools | <u>W</u> indo | w | <u>H</u> elp | |
|-----------------|-------------------|----------------|---|----------|-----------------|-----|--------------|-------|
| Manu | ial <u>B</u> reak | | | I F | BC an | . 1 | 67 | B., (|
| Fiel <u>d</u> s | 5 | | F | D | ate | | | L L |
| Speci | ial Charac | ter | | Ţ | me | | | |
| Fachi | | | _ | <u>P</u> | age Nur | nbe | er | - E |
| <u>S</u> ecti | | | | P | age <u>C</u> ou | Int | | · |
| Нуре | THE IK. | | | <u>S</u> | ubject | | | - 11 |
| He <u>a</u> d | ler | | ۲ | Ξi | tle | | | - 1 |
| Foote | er | | ۲ | A | uthor | | | - 6 |
| Footr | note <u>.</u> | | | 0 | ther | | Ctrl+I | =2 |
| Capti | io <u>n</u> | | | Ĭ | gnorm | - | curri | - |

Figure 1: Inserting common fields

Using document properties to hold metadata and information that changes

The Properties dialog box (File \rightarrow Properties) for a document has six tabs. The information on the *General* page and the *Statistics* page is generated by the program. Other information (the name of the person on the Created and Modified lines of the *General* page) is derived from the User Data page in **Tools** \rightarrow **Options**.

The *Internet* page is relevant only to HTML documents (Writer/Web). The file sharing options on the *Security* page is discussed elsewhere in this book.

Use the Description and Custom Properties pages to hold:

Metadata to assist in classifying, sorting, storing, and retrieving documents. Some of this
metadata is exported to the closest equivalent in HTML and PDF; some fields have no
equivalent and are not exported.

• Information that changes. You can store data for use in fields in your document; for example, the title of the document, contact information for a project participant, or the name of a product might change during the course of a project.

This dialog box can be used in a template, where the field names can serve as reminders to writers of information they need to include.

Later in this chapter, we will see how to use this information in fields. You can return to this dialog box at any time and change the information you entered. When you do so, all of the references to that information will change wherever they appear in the document. For example, on the *Description* page (Figure 2) you might need to change the contents of the *Title* field from the draft title to the production title.

| Properties of 0214WG | 3-WorkingWithFields | | | |
|----------------------|---------------------|----------|----------|------------|
| General Description | Custom Properties | Internet | Security | Statistics |
| Title | Working with Fie | lds | | |
| <u>S</u> ubject | | | | |
| <u>K</u> eywords | | | | |
| <u>C</u> omments | 1 | | | |

Figure 2: The Description page of the document's Properties dialog box

To open the Properties dialog box, choose File \rightarrow Properties.

Use the *Custom Properties* page (Figure 3) to store information that does not fit into the fields supplied on the other pages of this dialog box.

When the Custom Properties page is first opened in a new document, it may be blank. (If the new document is based on a template, this page may contain fields.)

Click Add to insert a row of boxes into which you can enter your custom properties.

- The *Name* box includes a drop-down list of typical choices; scroll down to see all the choices. If none of the choices meet your needs, you can type a new name into the box.
- In the *Type* column, you can choose from text, date+time, date, number, duration, or yes/no for each field. You cannot create new types.
- In the *Value* column, type or select what you want to appear in the document where this field is used. Choices may be limited to specific data types depending on the selection in the Type column; for example, if the Type selection is Date, the Value for that property is limited to a date.
- To remove a custom property, click the button at the end of the row.

| | To change the format of the Date value, go to Tools \rightarrow Options \rightarrow Languages and |
|-----|--|
| Тір | change the Locale setting. Be careful! This change affects all open documents, not |
| - | just the current one. |

| Properties of 0214WG3-Wo | | ernet Security Stat | istics |
|---|---|---------------------|----------------------------------|
| Properties | | | |
| Name | Туре | Value | |
| Checked by Client Date completed Department Destinations Disposition Division | Text Text DateTime Duration Number Yes or no | | |
| | | | <u>A</u> dd |
| | | ОК | Cancel <u>H</u> elp <u>R</u> ese |

Figure 3: Custom Properties page, showing drop-down lists of names and types

Using other fields to hold information that changes

One way that people use fields is to hold information that is likely to change during the course of a project. For example, the name of a manager, a product, or even your entire company may change just before the document is due to be printed. If you have inserted the changeable information as fields, you can change the information in one place, and it will automatically change in all the places where that field occurs.

Writer provides several places where you can store the information referred to by a field. We will look at some of them here.

Seven document properties (Date, Time, Page Number, Page Count, Subject, Title, and Author) are on the **Insert** \rightarrow **Fields** menu (Figure 1). To insert one of these fields, click on it in the menu. Some of these fields get their information from the Document Properties dialog box (Figure 2.)

Other document properties are on the *DocInformation* and *Document* pages of the Fields dialog box (Figure 4 and Figure 5), reached by choosing **Insert** \rightarrow **Fields** \rightarrow **Other** or pressing *Ctrl+F2*. Notice the *Custom* item in the *Type* list; this is derived from the *Custom Properties* page of the Document Properties dialog box (Figure 3).

To insert one of these fields, select it in the *Type* list and then select from the *Select* and *Format* lists if choices appear. Finally, click **Insert**.

| ocument | Cross-references | Functions | DocInformation | Variab | les Database | |
|----------------|------------------|-----------------|----------------|---------------|----------------------|---|
| <u>T</u> ype | | S <u>e</u> lect | | F <u>o</u> rm | at | |
| Comm Create | | Author | | 12/3 | | ^ |
| E Custon | - | Time Date | | | 1/1999 | |
| Keywo | | Date | | | 31, 99 31, 1999 | |
| Last pr | | | | |)ec. 1999 | |
| Modifie | | | | | mber 31, 1999 | |
| | on number | | | | ecember 1999 | |
| Subjec | t | | | Fri, D | Dec 31, 99 | ≡ |
| Title | distant stores | | | | 1/Dec 99 | |
| Total e | diting time | | | Fri, C | December 31, 1999 | |
| | | | | Frida | y, December 31, 1999 | |
| | | | | 12-3 | 1 | |
| | | | | 99-1 | 2-31 | |
| | | | | | -12-31 | |
| | | | | 12/9 | | |
| | | | | Dec | | |
| | | | | Dece | mber | * |
| | | | | ED | ked content | |

Figure 4: Inserting a Date Modified field using the DocInformation page of the Fields dialog box

| Document | Cross-references | Functions | DocInformation | Variables | Database | |
|---|------------------|-----------------|----------------|---|---------------------|---|
| <u>T</u> ype | | S <u>e</u> lect | Docamorniadon | F <u>o</u> rmat | batabase | _ |
| Author Chapter Date File name Page Sender Statistics Templates Time | | | | File name File name Path Path/File | e without extension | |

Figure 5: Inserting a File name field using the Document page of the Fields dialog box

Some of these items are picked up from the *User Data* page of the Options dialog box (covered in Chapter 2, Setting up Writer), so make sure the information on that page is correct.

Tip Although these fields are often used to hold information that changes, you can make the content unchangeable by selecting the **Fixed content** option (visible in Figure 4, lower right) when inserting the field. If necessary, you can come back to this dialog box later and deselect this option to make the field variable again.

Using AutoText to insert often-used fields

If you use the same fields often, you will want a quick and easy way to insert them. Use AutoText for this purpose. To define an AutoText entry for a field:

- 1) Insert a field into your document, as described previously.
- 2) Select the field you inserted, and then choose Edit \rightarrow AutoText (or press Ctrl+F3).
- 3) On the AutoText dialog box, choose the group where this new entry will be stored (in this example, it is going into *My AutoText*), type a name for the entry, and change the suggested shortcut if you wish.
- 4) Click the AutoText button and click New to have the entry inserted as a field. Do not choose New (text only) because the AutoText entry will be plain text, not a field. (The selection New does not appear until you have selected a group and typed a name for the entry.) Click Close to close the AutoText dialog box.

| AutoText | | | | $\overline{\mathbf{X}}$ |
|--|---|----------|----------------------|--------------------------------------|
| Display rem | ainder of name as suggestion while ty sample | ping | | Insert Close |
| Business My AutoT | Cards, Work (3 ½ x 2) Text | <u> </u> | | Help |
| | Templates | E | | AutoText New New (text only) Import |
| Save links relative | | | Sho <u>w</u> preview | |

Figure 6: Creating a new AutoText entry

Now whenever you want to insert this field at the cursor position, type the shortcut, and then press F3.

Defining your own numbering sequences

You may want to define your own numbering sequences, for example to use in situations where you do not always want the number at the start of the paragraph or where you want more control than the built-in numbering choices give you.

This topic describes how to create and use a numbering sequence, using a "number range variable" field.

Create a number range variable

To create a number range variable using Arabic (1, 2, 3) numbers:

- 1) Place the insertion point in a blank paragraph in your document.
- 2) Choose Insert \rightarrow Fields \rightarrow Other and select the Variables page.
- 3) In the *Type* list, select **Number range**. In the *Format* list, select **Arabic (1 2 3)**. Type whatever you want in the *Name* field. (We have used **Step** in this example.)

| Fields | | | | | | |
|--|---|--|----------------|----------------------|-----------------------------|--------------|
| Document | Cross-references | Functions | DocInformation | Variables | Database | |
| <u>Type</u> | | Selection | | <u>F</u> ormat | | |
| Set variab Show var DDE field Insert For Input field Number r Set page Show pag User Field | iable mula l ange variable je variable | Drawing Figure Illustration Table Text | | а, б,, а А, Б,, А | aaa I II III) II III) | |
| | | | | Numberin | g by chapter | |
| | | | | <u>L</u> evel | None | • |
| | | | | <u>S</u> eparat | tor . | |
| Na <u>m</u> e | | <u>V</u> alue | | | | |
| Step | | | |] ~ % | | |
| | | | (| Insert | Close | <u>H</u> elp |

Figure 7: Defining a number range variable

- 4) Click Insert. The name of the variable (Step) now appears in the Selection list, and a number field (showing 1) appears at the insertion point in your document. The Fields dialog box remains open, so you may need to move it out of the way to see the field in the document.
- 5) Hover the mouse pointer over this number field and you will see the field code of Step = Step+1. If you click several more times on the Insert button in the Fields dialog box, the numbers 2, 3, 4, and so on will appear in the document.

Now you may want to restart the Step sequence at 1, so you can use the same sequence name more than once in your document (for example, to begin each set of instructions). To do that, you need to insert a new field of the same name, while instructing LibreOffice to force the value to 1.

- 1) Open the Fields dialog box to the *Variables* page. Make sure the variable name Step appears in the *Name* box.
- 2) In the Value box, type **Step=1**, as shown in Figure 8. Click **Insert**.

Now hover the mouse pointer over the new field in your document and you will see the field code of **Step = Step=1**. To continue with the normal sequence (that is, to have the next item be step 2), you need to delete the contents of the Value box after inserting Step 1.

| Document Cross-reference | s Functions DocInform | ation Variables Database |
|--|---|---|
| Type Set variable Show variable DDE field Insert Formula Input field Number range Set page variable Show page variable User Field | Selection Drawing Figure Illustration Step Table Text | Format A B C a b c A AA AAA a aa aaa Roman (I II III) Roman (i ii iii) Arabic (1 2 3) A, 5,, Aa, A6, (bg) a, 6,, aa, a6, (bg) a, 6,, aa, 66, (bg) a, 6,, aa, 66, (bg) Numbering by chapter Level None |
| | | Separator . |
| Na <u>m</u> e | Value | , |
| Step | Step=1 | ✓ ¥ |

Figure 8: Defining a field to restart a number range variable

Use AutoText to insert a number range field

You certainly do not want to go through all of that every time you want to put in a step number. Instead, create two AutoText entries, one for the Step = Step=1 field (call it **Step1**, for example) and one for the Step = Step+1 field (**StepNext**). Then insert the fields in the same way you would insert any other AutoText. See "Using AutoText to insert often-used fields" on page 8.

You can create similar fields for substeps or other sequences that you want to be numbered with letters (a, b, c), Roman numerals (i, ii, iii), or some other sequence. In the Fields dialog box, choose the required format in the *Format* list when creating the field codes.

Using automatic cross-references

If you type in cross-references to other parts of the document, those references can easily get out of date if you reword a heading, add or remove figures, or reorganize topics. Replace any typed cross-references with automatic ones and, when you update fields, all the references will update automatically to show the current wording or page numbers.

| Тір | Some people use Writer's Hyperlink feature for cross-references, but it has the major disadvantage that the visible text of the hyperlink does not change if you change the text of the item to which it links. For that reason, you are advised to use cross-references in most situations. |
|-----|--|
| | The exception is when you are creating a document to be saved as HTML; cross- references do not become hyperlinks in an HTML document. |

The *Cross-references* page of the Fields dialog box (Figure 9) lists some items, such as headings, numbered paragraphs, and bookmarks. If figure captions, table captions, user-defined number range variables, and some other items have been defined in a document, that type also appears in the list.

| Document Cross-reference | s Functions DocInformation | Variables Database | |
|---|--|--|---------|
| <u>Т</u> уре | S <u>e</u> lection | | |
| Set Reference Insert Reference Headings Numbered Paragraphs Figure Bookmarks | Introduction to fields Quick and easy field entry Using document properties of Using other fields to hold inf Using AutoText to insert offer Defining your own numbering Create a number range van | en-used fields ng sequences riable | ges |
| | Insert reference to | Na <u>m</u> e | |
| | Page | Defining your own number | ering s |
| | Chapter Reference Above/Below As Page Style Number Number (no context) Number (full context) | Value | |

Figure 9: The Cross-references page of the Fields dialog box

Inserting cross-references

To insert a cross-reference to a heading, figure, or other item shown on the Cross-references page:

- 1) In your document, place the cursor where you want the cross-reference to appear.
- If the Fields dialog box is not open, choose Insert → Cross Reference. On the Crossreferences page (Figure 9), in the Type list, click the type of item you are referencing (for example, Heading or Figure).
- 3) You can leave this page open while you insert many cross-references.
- 4) Click on the required item in the *Selection* list, which shows both automatically created entries (for example Headings) as well as user-defined references (for example bookmarks).
- 5) In the *Insert reference to* list, choose the type of reference required. The choices vary with the item being referenced.

For headings, usually you will choose **Reference** (to insert the full text of the heading) or **Page** (to insert the number of the page the heading is on).

For figures, you will usually choose **Category and Number** (to insert the word "Figure" and its number), **Reference** (to insert the word "Figure" with its number and the full text of the caption), **Page** (to insert the number of the page the figure is on), or **Numbering** (to insert only the figure number).

6) Click Insert.

For a full list of the reference formats available, and their use, consult the Help.

Available formats

For all the types of reference, you can select one of the following formats:

- Page: the page number of the target
- Chapter: the number of the chapter where the referenced target is located.
- Reference: the full text set as reference.
- Above/Below: Inserts the words above or below depending on the position of the field relative to the referenced target.
- As Page Style: similar to Page, this inserts the page number where the reference is, but using the formatting specified in the page style. This is very useful when putting a reference to a page in the front matter where roman numerals are usually employed.

If you select Headings or Numbered Paragraphs as type, the following two additional options become available:

- Number (no context): inserts only the number of the heading or of the numbered paragraph. For example, if referencing a numbered item 2.4, it inserts 4.
- Number (full context): inserts the full number including higher hierarchical levels. For example, if referencing a numbered item 2.4, the full numbering (2.4) is inserted.

Finally, for objects inserted with captions such as a table or a figure, you can choose:

- Category and Number: inserts both the category and number of the referenced object (for example, Figure 6). This is generally the most used formatting for figures and tables.
- Caption Text: inserts the full caption of the referenced object. For example, Figure 6: This is an example figure.
- Numbering: inserts the sequential number of the referenced object, without the category (for example, if referencing Table 2, the field will contain only the number 2).

Preparing items as targets for cross-referencing

Occasionally you might want to insert a cross-reference to something that is not automatically shown on the *Cross-references* page. Before you can insert a cross-reference to such an item, you must prepare the item as a target to be referenced. To do this, you can either use bookmarks or set references.

After a target has been defined, you can cross-reference to it as described on page 11. For an example of the use of this technique, see "Solving the page count problem" in Chapter 4, Formatting Pages.

Using bookmarks

Bookmarks are listed in the Navigator and can be accessed directly from there with a single mouse click. In HTML documents, bookmarks are converted to anchors that you can jump to using a hyperlink.

1) Select the text you want to bookmark. (You can also insert a bookmark to a location without selecting text, by clicking in the required place in the text.) Choose Insert \rightarrow Bookmark.

2) On the Insert Bookmark dialog box, the larger box lists any previously defined bookmarks. Type a name for this bookmark in the top box. Click **OK**.

| Insert Bookmark 🛛 🔀 | | | | | |
|-----------------------------------|--------|--|--|--|--|
| Bookmarks | ОК | | | | |
| insertpagenum usedocproperties | Cancel | | | | |
| | Delete | | | | |
| | | | | | |
| | | | | | |

Figure 10: Inserting a bookmark

Setting references

- 1) Choose Insert \rightarrow Cross reference.
- 2) On the *Cross-references* page of the Fields dialog box (Figure 11), select **Set Reference** in the *Type* list. The *Selection* list shows any references that have been defined. You can leave this page open while you set many items as references.

| Document Cross-references | Functions | DocInformation | Variables | Database | |
|--|---|-----------------|---------------|---------------|--------------|
| <u>T</u> ype | S <u>e</u> lection | | | | |
| Set Reference Insert Reference Headings Numbered Paragraphs Figure Bookmarks Footnotes | create ten Cross-ref insert sub Method 1. Method 2. | between subdocs | ed | | |
| | Insert <u>r</u> efe | rence to | Na <u>m</u> e | | |
| | | | word cou | unt | |
| | | | <u>∨</u> alue | | |
| | | | Word co | unt | |
| | | | | | |
| | | | | | |
| | | | Insert | <u>C</u> lose | <u>H</u> elp |

Figure 11: Setting text to be used as a target for a cross-reference

- 3) Click in the document and highlight the text of the first item to set as a target for a crossreference. Click on the Fields dialog box. The text of the item will appear in the *Value* box in the lower right. In the *Name* box, type some text by which you can identify this item.
- 4) Click Insert. The text you typed in the Name box now appears in the Selection list.
- 5) Repeat steps 3 and 4 as often as required.

Using fields in headers and footers

You can insert fields into headers or footers, using techniques described earlier in this chapter:

- To insert a page number, document title, author, creation date and time, current date and time, or total page count field, use document properties (see page 4) or the Insert → Fields menu entry.
- You can insert a cross-reference to a bookmark, heading, or other item.
- If you have used *Heading 1* for your chapter titles, you can use a document field to insert the current chapter title, so the header or footer contents change from one chapter to the next. See Figure 12. (Writer calls chapter titles *Chapter names*.) If you have used outline numbering on your *Heading 1*, you can choose whether to include these numbers in the field (*Chapter number and name*).

| ocument | Cross-references | Functions | DocInformation | V | ariables | Database | |
|-----------------------------|------------------|-----------------|----------------|---|------------------------|-------------|-------------|
| <u>T</u> ype | | S <u>e</u> lect | | | F <u>o</u> rmat | | |
| Author | | | | | Chapter I Chapter I | | |
| Chapter Date | | | | | Chapter i | number and | |
| File name Page Sender | | | | | Chapter I | number with | iout separa |
| Statistics Templates | 5 | | | | | | |
| Time | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | < | | > |
| | | | | | Level | | |
| | | | | | 1 | | \$ |

Figure 12: Inserting the current chapter name and number into your document

You can insert cross-references to other heading levels by specifying a value in the *Level* box in the lower right of the *Document* page of the Fields dialog box (Figure 12). That is, Level 1 = Heading 1, Level 2 = Heading 2, and so on.

| Note |
|------|
|------|

To include the chapter number with the page number, position the cursor just before the Page field you inserted. Choose Insert → Fields → Other. On the Document page of the Fields dialog box, select Chapter in the Type column and Chapter number without separator in the Format column. Click Insert.

Go to the header or footer where you inserted this field, type the character you want to appear between the chapter number and the page number—for example, a period or a dash.

The table of contents will not automatically pick up these chapter numbers, so you will need to make a change on the **Indexes and Tables** menu item, as described in Chapter 12, Creating Tables of Contents, Indexes, and Bibliographies.

You can add a page count to the footer—for example "Page 9 of 12". Type the word "Page" and a space in front of the *Page* field. Type a space, the word "of", and a space after the *Page* field. Then choose Insert → Fields → Page Count.

Using fields instead of outline numbering for appendix numbering

Chapter 6, Introduction to Styles, describes how to use paragraph styles to define a hierarchy of headings to be included in a table of contents.

This method has one major limitation: only one paragraph style can be selected for each heading level, and only one numbering sequence can be specified in **Tools** \rightarrow **Outline Numbering**. However, many books contain Appendixes (typically designated A, B, C) in addition to the chapters (typically designated 1, 2, 3).

To solve this problem, you can use one paragraph style (Heading 1) for both chapter and appendix names, and define two number range fields for the chapters and appendixes respectively. The number range field for chapters will use numbers, and the number range field for appendixes will use letters. You can then use the same field in the header or footer of chapters and appendixes.

- Define the first number range variable, as described in "Defining your own numbering sequences" on page 8. To insert the field into your *Heading 1*, type Chapter<space>. Choose Insert → Fields → Other. On the *Variables* page, select Number range, Chapter, Arabic (1 2 3). Click Insert. You will need to do this manually for each *Heading 1* that is to be a chapter title.
- 2) Define and insert a second number range variable for the appendixes, using Number range, Appendix, A B C), as shown in Figure 13. Type Appendix<space> and then insert the variable. Do this for each *Heading 1* that is to be an appendix title.
- 3) When you create the table of contents, the chapters and appendixes will be designated correctly.

Tricks for working with fields

Keyboard shortcuts for fields

Here are some handy keyboard shortcuts to use when working with fields:

| Ctrl+F2 | Open the Fields dialog box. |
|---------|--------------------------------|
| Ctrl+F8 | Turn field shadings on or off. |
| Ctrl+F9 | Show or hide field names. |
| F9 | Update fields. |

Fixing the contents of fields

You can specify **Fixed content** for many items on the *Document* and *DocInformation* pages so the field contents do not update. For example, you might use a field to insert the creation date of a document, and you would not want that date to change. In another place you might use a date field to show the current date, which you do want to change; in that case, deselect **Fixed content** when you insert the field.

| Document Cross-reference | s Functions DocInform | mation Variables Database | | | | |
|--|---|---|----------------------|--|--|--|
| <u>Т</u> уре | Selection | <u>F</u> ormat | | | | |
| Set variable Show variable DDE field Insert Formula Input field Number range Set page variable Show page variable User Field | Chapter Drawing Illustration Table Text | АВС а b c А АА ААА а аа ааа Roman (I II III) Roman (i ii iii) Arabic (1 2 3) А, Б,, Аа, Аб, (bg) а, б,, аа, аб, (bg) а, б,, аа, 66, (bg) | | | | |
| | | Numbering by chapter | Numbering by chapter | | | |
| | | Level None | ~ | | | |
| | | <u>S</u> eparator . | | | | |
| Na <u>m</u> e | <u>V</u> alue | | | | | |
| Appendix | | ✓ % | | | | |

Figure 13: Defining a number range variable for Appendixes

Converting fields into text

Writer does not provide any easy way to convert field contents into text. To do this, you need to copy the field contents and paste them back as unformatted text. This is not a very good solution if you have hundreds of fields that you want to change, but you could use a macro to automate the process.

Developing conditional content

Conditional content is text and graphics that are included or excluded depending on a condition you specify.

A simple example is a reminder letter for an overdue account. The first and second reminders might have a subject line of "Reminder Notice", but the third reminder letter might have the subject "Final Notice" and a different final paragraph.

A more complex example is a software manual for a product that comes in two versions, Pro and Lite. Both product versions have much in common, but the Pro version includes some features that are not in the Lite version. If you use conditional content, you can maintain one file containing information for both versions and print (or create online help) customized for each version. You do not have to maintain two sets of the information that is the same for both versions, so you will not forget to update both versions when something changes.

Choose the types of conditional content to use

This section describes several Writer features that can help you design and maintain conditional content. You can use one or any combination of these features in the same document.

Conditional text

With conditional text, you can have two alternative texts (a word, phrase, or sentence). One text will be displayed and printed if the condition you specify is met, and the other will be displayed and printed if the condition is not met. You cannot include graphics or edit the text except in the field dialog (not in the body of the document). You also cannot format part of the text (for example, bolding one word but not the others), but you can format the field to affect all of the field contents (for example, bolding all of the words). You cannot include a cross-reference or other field in the text.

Hidden text

With hidden text (a word, phrase, or sentence), you have only two choices: show or hide. If the condition you specify is met, the text is hidden; if the condition is not met, the text is displayed. The disadvantages are the same as for conditional text: you cannot include graphics, edit the text in the body of the document, format part of the text, or include a field.

Hidden paragraphs

Hidden paragraphs are like any other paragraphs, but you can specify a condition under which the paragraph is not displayed or printed. A blank paragraph can also be hidden—for example, if a database field has no content for the current record. This is very useful when merging an address into a letter: if you allow two lines for the street address and the database record uses only one line, you can prevent the blank line from appearing in your document. You can include graphics, edit the text in the body of the document, format any part of the text, and include fields.

Hidden sections

Hidden sections are like hidden paragraphs, but they can include more than one paragraph—for example, a heading plus one or more paragraphs. However, a section cannot contain less than a paragraph, so you cannot use this method for single words or phrases. The contents of a hidden section behave just like the contents of any other part of the document, but you can specify a condition under which the section is not displayed or printed. In addition, you can password protect a section.

Plan your conditional content

Conditions are what programmers call *logical expressions*. You must formulate a logical expression for each condition because a condition is always either true (met) or false (not met). You can use the same condition in many places in your document, for different types of conditional content.

To make conditional content work, you need to:

- 1) Choose or define a variable.
- 2) Define a logical expression (condition) involving the selected variable.

Choose or define a variable

You can use the following variables in your condition:

- User-defined variables
- Predefined LibreOffice variables, which use statistical values from the document properties
- User data
- Database field contents—for example from your address book

You cannot use internal variables (for example, page number or chapter name) to formulate conditions.

The examples in this chapter use user-defined variables.

Define a logical expression (condition) involving the selected variable

The condition compares a specified fixed value with the contents of a variable or database field.

To formulate a condition, use the same elements as you would to create a formula: operators, mathematical and statistical functions, number formats, variables, and constants. The possible operators are given in the online help; look in the index under "operators: in formulas". You can define quite complex expressions, but in most cases a simple condition will do the job.

Create the variable

To create your variable, choose **Insert** \rightarrow **Fields** \rightarrow **Other**. You can use choices found on the *DocInformation*, *Variables*, and *Database* pages.

DocInformation fields

"Using document properties to hold metadata and information that changes" on page 4 described how to set up a custom document property. You can use that document property as the variable in your condition statement, or you can create another document property field specifically for conditions.

User-defined variable field

To set up a variable or user field:

- 1) Place the cursor where you want the field to be inserted.
- 2) On the Fields dialog box, select the *Variables* page.

| Document | Cross-references | Functions | DocInformation | V | ariables | Database | |
|--|------------------|--------------------|----------------|---|--|-----------------|--------------|
| Туре | | S <u>e</u> lection | | | <u>F</u> ormat | | |
| Set variable Show variable DDE field Insert Formula Input field Number range Set page variable Show page variable User Field | | | | | Text General -1234 -1234.12 -1,234 -1,234.12 Additiona | 2 Il formats | |
| Na <u>m</u> e | | <u>V</u> alue | | | | | |
| ProLite | | Lite | | | × × | | |
| | | | (| | Insert | Close | <u>H</u> elp |

Figure 14: Defining a variable to use with conditional content

- 3) Select Set variable in the *Type* list and Text in the *Format* list. Type a name for the variable in the *Name* box, and a value in the *Value* box. I have chosen ProLite for the name (to remind me that this variable is related to the two product versions), and I set the value as Lite because I can remember "If it is the Lite version, then this text should be hidden."
- 4) Select **Invisible** so the field does not show in the document. Click **Insert**, then click **Close**.
- 5) A small gray mark should be visible where you inserted the field. Hover the mouse pointer over this mark and you will see the field formula *ProLite* = *Lite*. We will come back to this field later.

| Tip | Because the gray mark is so small, you may have trouble finding it again, especially if you have other fields in the document. You may prefer to leave the variable field visible while you work, and change it to invisible just before you create final copy. |
|-----|--|
| | At any time, you can place the insertion point just before the field and choose Edit \rightarrow Fields or right-click the field, and then click Fields on the context menu. On the Edit Fields dialog box (Figure 18), select or deselect the Invisible option. |

Apply the condition to the content

Now that you have defined the variable, you can use it in a condition statement. This topic describes some of the possibilities.

Conditional text

First, let us set up some conditional text that will insert the words **Great Product Lite** into the Lite version and **Great Product Pro** into the Pro version of the manual. You would use this field whenever you want to mention the name of the product.

- 1) Place the cursor where you want one of these phrases to appear. (You can move or delete it later, if you wish.)
- 2) Open the Fields dialog box by clicking Insert \rightarrow Fields \rightarrow Other, select the Functions page, and select Conditional text in the Type list.
- 3) As shown in Figure 15, type **ProLite EQ "Lite"** in the *Condition* box, **Great Product Lite** in the *Then* box, and **Great Product Pro** in the *Else* box.

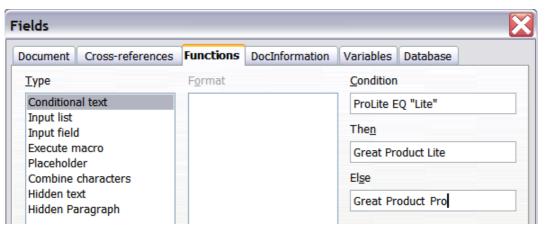


Figure 15: Inserting conditional text

Note

These fields are case-sensitive, and quotation marks are required around a text value such as **Lite**.

4) Click **Insert** to insert the field, then click **Close**. You should see **Great Product Lite** in your text.

Hidden text

You might use hidden text for words or short phrases that describe features of Great Product Pro that are not found in the Lite version. You can reuse the same field in several places in your document—for example, by copying and pasting it.

To create a hidden text field:

- 1) Choose Insert \rightarrow Fields \rightarrow Other and select the *Functions* page.
- 2) Select **Hidden text** in the *Type* list, as shown in Figure 16.
- 3) Type **ProLite EQ "Lite"** in the *Condition* box and type the required text in the *Hidden text* box. Remember, this is the text that is *hidden* if the condition is true.
- 4) Click **Insert** to create and insert the field.

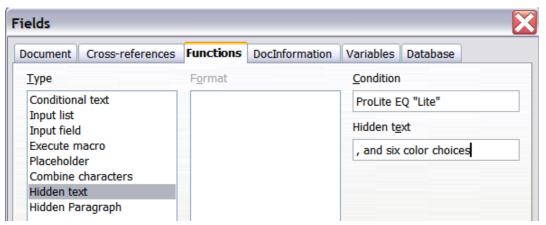


Figure 16: Creating a condition for hidden text

Hidden paragraphs

A paragraph is hidden if the condition is true. To hide a paragraph:

- 1) Click in the paragraph to be hidden.
 - 2) Choose Insert \rightarrow Fields \rightarrow Other and select the Functions page (Figure 16).
 - 3) Select Hidden paragraph in the Type list.
 - 4) For this example, type **ProLite EQ "Lite"** in the Condition box.
 - 5) Click Insert to create and insert the field. If an extra paragraph mark appears, delete it.

To show hidden paragraphs so you can edit them, do one of the following:

- Choose View → Hidden Paragraphs from the menu bar, so it is checked (shows all hidden paragraphs).
- On the **Tools** → **Options** → **LibreOffice Writer** → **Formatting Aids** page, select the *Fields: Hidden paragraphs* option (shows all hidden paragraphs).
- Double-click in front of the variable that you used to define the condition for hiding the text, and enter a different value for the variable (shows all hidden paragraphs).

• Double-click in front of the hidden text field or the hidden paragraph field, and change the condition statement (changes only the selected hidden paragraph).

Hidden sections

A conditional section is hidden if the condition is true. To create a conditional section:

- 1) Select the text that you want to be included in the conditional section. (You can edit this text later, just as you can edit any other text.)
- 2) Choose Insert → Section. On the Insert Section dialog box (Figure 17), select Hide and enter the condition in the *with Condition* box. You can also give the section a name, if you wish (strongly recommended, so you can find it again easily if you have several sections in your document).
- 3) Click **Insert** to insert the section into your document.

To show a hidden section so you can edit it:

- 1) Choose Format \rightarrow Sections.
- 2) On the Edit Sections dialog box (similar to the Insert Section dialog box), select the section from the list.
- 3) Deselect **Hide**, and then click **OK**. You can now edit the contents of the section. Afterwards, you can choose **Format** → **Sections** again and select **Hide** to hide the section again.

To show all the hidden sections so you can edit them, change the value of the variable to something that the conditions will not recognize. In our example, you could change the value to **1**.

| Insert Section | | $\overline{\mathbf{X}}$ |
|-------------------------|-------------------------|-------------------------|
| Section Columns Indents | Background Footnotes/Er | ndnotes |
| New section | Link | |
| Extra features | Link | |
| | DDE | |
| | <u>F</u> ile name | |
| | Section | ~ |
| | Write protection | |
| | With password | |
| | Hide I Hide | |
| | | |
| | With Condition | ProLite EQ "Lite" |

Figure 17: Creating a section to be hidden when a specified condition is met

To make the hidden section a normal part of the document (that is, to remove the section markers, but not the contents of the section):

- 1) Show the hidden section, as described above.
- 2) On the Edit Sections dialog box, select the section from the list.
- 3) Click **Remove**. The contents of the section are now a normal part of the document.

Change the value of the variable

- 1) Find the variable field you created in "Create the variable" on page 18.
- 2) Click once just in front of this field, then right-click and click **Fields** on the context menu.
- 3) On the Edit Fields: Variables dialog box (Figure 18), change the value of the variable to **Pro**.
- 4) If you have set fields to update automatically, all of the conditional and hidden text that uses this variable as a condition will change.

| Edit Fields: Variables | | | | | |
|------------------------------|-------------------------------|----------------------|------------------------------|--|--|
| <u>T</u> ype Set variable | S <u>e</u> lection ProLite | Eormat Text | OK Cancel <u>H</u> elp | | |
| | | ✓ Invisi <u>b</u> le | | | |
| Na <u>m</u> e ProLite | <u>V</u> alue Pro | < ₩ | | | |

Figure 18: Changing the value of the variable

Using placeholder fields

A placeholder field prompts you to enter something (text, a table, a frame, a graphic, or an object).

To insert a placeholder field into a document:

- 1) On the *Functions* page of the Fields dialog box, select **Placeholder** in the *Type* column and select what the placeholder is for in the *Format* column.
- 2) In the Placeholder box, type the text that you want to appear in the placeholder field.
- 3) In the *Reference* box, type the text that you want to display as a help tip when you rest the mouse pointer over the field.

Figure 19 shows the results of inserting a placeholder field for a graphic.

TipTo turn on automatic updating of fields, choose Tools \rightarrow Options \rightarrow LibreOffice
Writer \rightarrow General, and select Fields under Update: Automatically.

| | Fields | | | | |
|------------|---|------------------------|----------------|---------------------------|----------|
| | Document Cross-references | Functions | DocInformation | Variables | Database |
| o>¶ | <u>Т</u> уре | F <u>o</u> rmat | | Placehold | er |
| ert logo I | here conditional text Input list Input field | Text Table Frame | | Logo <u>R</u> eference | е |
| | Execute macro Placeholder | Graphics Object | | Insert lo | go here |
| | Combine characters Hidden text Hidden Paragraph | | | | |

Figure 19: Inserting a placeholder field

Because the *<Logo>* field is a graphics placeholder, when you click on the field in the document, the Insert picture dialog box opens, prompting you to select a graphic (picture). When you select a picture and click **Open**, the picture replaces the field in the document.

Similarly, clicking on a table placeholder field opens the Insert Table dialog box, clicking on a frame placeholder field opens the Frame dialog box, and clicking on an object placeholder field opens the Insert OLE Object dialog box. The text placeholder field is different: you simply click on it and type some text in the *Placeholder* box, which replaces the field.

Using input fields and input lists

Input field

An *input field* is a variable that you can click in a document to open a dialog where you can edit the text displayed in the field. To insert an input field:

- 1) Choose Insert \rightarrow Fields \rightarrow Other and choose the *Functions* page.
- 2) Choose **Input field** in the *Type* list (Figure 20).
- 3) Optionally type some text in the **Reference** box. This text will appear as a tooltip when the users hover a mouse cursor over the field.
- 4) Click **Insert**. In the small dialog box that opens, type some text for the variable (for example, a brief instruction to the user regarding the purpose of the field); this text can be the same or different from the text in the Reference box in the previous step.
- 5) Click **OK**.

To edit an input field, click on it in the document. In the small dialog box that opens, edit the text of the field.

| | Fields | | | | | X |
|------------|--------------------------|------------------------|-----------------|----------------|-------------------|----------------------------|
| | Document | Cross-references | Functions | DocInformation | Variables | Database |
| | <u>Type</u> | | F <u>o</u> rmat | | Na <u>m</u> e | |
| | Condition Input list | | | | | |
| | Input field Execute n | | | | <u>R</u> eference | |
| | Placehold | er characters xt | | | What thi | s field is for |
| Input Fiel | d | | | | | |
| Edit | | | | ОК | | |
| | is field is for | | | Cancel | | |
| | | | | <u>H</u> elp | | Macro |
| | | | | | | Maron |
| | | | | | Insert | <u>C</u> lose <u>H</u> elp |
| | | | | | | |

Figure 20: Inserting an input field

To edit the field's reference, right-click on the field and choose **Fields** from the context menu. This opens the Edit Fields: Functions dialog box.

| Edit Fields: Functions | | | | | |
|------------------------|-----------------|------------------------|--------|--|--|
| <u>Т</u> уре | F <u>o</u> rmat | Na <u>m</u> e | ок | | |
| Input field | | Some instructions | | | |
| | | <u>R</u> eference | Cancel | | |
| | | What this field is for | Help | | |
| | | | | | |

Figure 21: Editing an input field

Input list

An *input list* is a text field that displays one item from a list. To insert an input list field into a document:

1) Choose Insert \rightarrow Fields \rightarrow Other; on the Functions page, choose Input list in the Type list.

| ocument Cross-references | | DocInformation | Variables Dat | |
|------------------------------|-----------------|----------------|-----------------------|--------------------|
| Туре | F <u>o</u> rmat | | Ite <u>m</u> | |
| Conditional text | | | Third item | |
| Input list | | | | |
| Input field Execute macro | | | <u>A</u> dd | |
| Placeholder | | | Items on <u>l</u> ist | |
| Combine characters | | | First item | |
| Hidden text | | | Second item | |
| Hidden Paragraph | | | | |
| | | | | |
| | | | (| <u>R</u> emove |
| | | | (| Move <u>U</u> p |
| | | | | Move Do <u>w</u> n |
| | | | Na <u>m</u> e | |
| | | | Name of field | 1 |

Figure 22: Defining an input list field

- 2) Type the names of the list items in the Item box on the upper right, clicking Add after each item. The items then appear in the Items on list box. To change the order of the items, select an item and click the Move Up or Move Down buttons.
- 3) Type the name of the list in the **Name** field on the lower right.
- 4) Click Insert.

To display the Choose Item dialog box, click the Input list field.

| Choose Item: Name of field | |
|---|------------------------------|
| Edit First item Second item Third item | OK Cancel <u>H</u> elp |
| | Edit |

Figure 23: Choosing an item from an input list

To add, edit, and remove items from this list, and change their order in the list, click the **Edit** button in the Choose Item dialog box. This displays the Edit Fields: Function dialog box.

| Edit Fields: Functions | | | |
|------------------------|--------|---------------------------|--------------|
| <u>Т</u> уре | Format | Ite <u>m</u> | ОК |
| Input list | | | |
| | | Add | Cancel |
| | | Items on <u>l</u> ist | <u>H</u> elp |
| | | First item Second item | |
| | | Third item | |
| | | | |
| | | Remove | |
| | | | |
| | | Move Up | |
| | | Move Do <u>w</u> n | |
| | | Na <u>m</u> e | |
| | | Name of field | |

Figure 24: Editing the items on an input list

To quickly edit all input fields and lists in a document, press *Ctrl+Shift+F9*. The first input field or list in the document opens. Clicking **OK** or **Next** moves to the next input field or list. After the last input field or list, clicking **Next** or **OK** returns you to the document.