Tools of the LaTeX Masters

by The LyX Team

August 25, 1996

1 Introduction

For now, ignore this subsection. It'll be completed later.

1.1 About this Document

As with all of the documentation files for LyX, we begin with a brief explanation of the format of this manual. Some of you may have printed out the manual. Others may be reading it online, within LyX as a file. For those reading online, there are some differences from the printed version. First, there is no title page [*Editor's Note: Some of these comments anticipate features to be added in the future. -jw*] visible, nor are any of the footnotes or the Table of Contents visible. For now, title pages are generated by LaTeX using information provided in a popup dialog box. There is a popup for viewing the Table of Contents. To open it, select *Table of Contents* from the *Layout* menu. To open a footnote, which looks like this,[1] click on it with the middle mouse button.

Now that we've cleared up some of the differences between the printed and online versions of this file, we can start looking at the format of this document. You'll occasionally notice things in different fonts:

- *Italics* is used for menu, button, or command names.
- `Typewriter` is used for program and file names.
- Sans Serif is used for references to sections of other manuals.

[1] Hi!

- Noun Style is used for people's names.

For keys and keybindings, you'll probably get referred to the Key Bindings section of `Reference.lyx`. When we do need to reference keys, we'll use the following prefixing convention:

- "C-" indicates the Control- key.
- "S-" indicates the Shift- key.
- "M-" indicates the Meta- key, which on some keyboards will be the Alt- key.
- "F1" ... "F12" are the function keys.
- "Esc" is the escape key.
- "Insert" "Delete" "Home" "End" "PageUp" "PageDown": these are the 6 keys that appear above the cursor keys on many PC keyboards.

You'll also see something like "[See `Reference.lyx`]" from time to time. The possible default keybindings for a given command are listed in the section for that command in `Reference.lyx`, so check there, too.

You will also find footnotes with commentary from various members of the LyX team. Each one begins with "Note from Xxxx:" There's one at the beginning of the document from Matthias Ettrich, creator of LyX. There will also be some from David Johnson, who maintains the LyX homepage and maintained an earlier version of this document. When there's a note from them, you'll probably only see their first names, since there'll be several such notes.[2] A full list of credits appears at the end of this file.

2 Multiple Columns

2.1 Purpose

The aim for this chapter is to show how `multicol` can be used in a LyX document. As LyX(yet) doesn't support the `multicol` package, we have to use some small hacks. By reading this LyX document it should be obvious how to do this.

[2] *Editor's Note: When the current maintainer of these documents wants to make a comment, it will appear just like this, followed by a "-" and his initials. -jw*

2.2 Examples

2.2.1 two columns

When you want two columns, you have to insert \begin{multicols}{2} at the point where you want the twocolumn layout to start, and \end{multicols} where you want it two end. like this:

Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla. Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

2.2.2 multiple columns

The same pattern is used when wanting more than two columns:

Columns inside columns is also possible, but maybe not so nice? Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

Columns inside columns is also possible, but maybe not so nice? Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

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Columns inside columns is also possible, but maybe not so nice? Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla. Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

2.2.3 columns inside columns

multicol have no restrictions on columns inside columns.

Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla.

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Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

2.3 Advanced Examples

As you probably know multicol has several customizing variables. The following examples shows how these can be used from LyX.

2.3.1 Preface and Skip

This is a Preface

If there is less than 5cm left on the page, a pagebreak will be inserted. Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

2.3.2 Preface and sections

What if you want the preface to he a sectioning command? That can be done, but only through LaTeX commands, and because of this the section commands will not be supported buy Lyx:

2.3.3 This is a Preface

If there is less than 5cm left on the page, a pagebreak will be inserted. Her kommer det bare bla bla bla bla Her kommer det mere bla bla bla, og enda mer bla bla bla som ikke betyr annet enn bla bla bla. Det er ikke grenser for hvor mye bla bla man kan skrive. Det bare renner inn bla bla bla, og enda mer bla bla.

2.3.4 Free Space

multicol demands that a certain amount of space is available before and after a multicols section, in addition multicol inserts a given space in front of and after the multicol section. The commands to change the default settings must be given just before the \begin{multicols}:

This multicol section have a space in front of it and after it equal to 3cm. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla.

Note: The values you set with \setlength must be reset to default after use, or you will get the modified value in the rest of your document.

2.3.5 Column Width and Separation

The width of the columns inside the multicols environment is automatically calculated, but you can modify the space between two columns:

The space between these two columns is 3cm wide. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla.

2.3.6 Vertical Lines

Between every two columns, a rule of width \columnseprule is placed. If this rule is set to 0pt, the rule is suppressed.

The line separating these two columns is 2pt wide. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla. Text bla bla bla bla bla bla bla bla blablbla blsaa bla bla blal text text bla bla bla bla blbla blalblablab blablab bla.

Remainder of Document is Incomplete.