Org Beamer quick reference card

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Description

Welcome to Org Beamer reference card. It contains the reference documentation that describes how to write presentations using Org mode 8+.

ox-beamer

M-x load-library RET ox-beamer RET

to load the Beamer back-end library.

Editing support

```
M-x org-beamer-mode RET
```

to load the minor mode org-beamer-mode easing the edition of the document structure (through the key binding C-c C-b).

You can also turn it on with:

```
#+STARTUP: beamer
```

in your document.

Beamer-related keywords

The beamer back-end introduces the following keywords:

```
#+BEAMER_THEME: Boadilla
```

which (for Boadilla) is equivalent to:

```
#+BEAMER_COLOR_THEME: dolphin
#+BEAMER_FONT_THEME: default
#+BEAMER_INNER_THEME: [shadow]rounded
#+BEAMER_OUTER_THEME: infolines
```

Append any line of code in the LATEX preamble with:

```
#+BEAMER_HEADER:
```

XXX Is it [BEAMER-EXTRA] or [BEAMER-HEADER-EXTRA] in org-latex-classes?

Keywords

ox-beamer.el reads both ATTR_LATEX and ATTR_BEAMER, when it makes sense.

Properties

If you set

```
#+OPTIONS: H:2
```

then:

- Second-level headlines become the frames, and
- Top-level headlines become sections (listed in the table of contents, which is created by default).

Creating a frame

```
** A title
##BEAMER: \framesubtitle{A subtitle}

Some content.
```

againframe

appendix

You can add an appendix to your talk by using the \appendix command. You should put frames and perhaps whole subsections into the appendix that you do not intend to show during your presentation, but which might be useful to answer a question. The \appendix command essentially just starts a new part named \appendixname. However, it also sets up certain hyperlinks. Like other parts, the appendix is kept separate from your actual talk

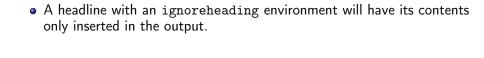
column

columns

frame

- Headlines become frames when their level is equal to org-beamer-frame-level (or H value in the OPTIONS line).
- Though, if a headline in the current tree has a BEAMER_env property set to either frame or fullframe, its level overrides the variable.

- A fullframe is a frame with an ignored title
 - frametitle is set to the empty string



Contents is not inserted in any frame environment...

• This special value is useful to have data between frames, or to properly close a column environment.

note

noteNH

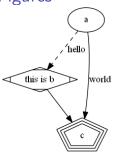
Explicit page breaking I

If the text does not fit on a single slide, all you have to do to automatically break up the frame into several frames, is set the option allowframebreaks:

```
** A long "frame" with breaks
:PROPERTIES:
:BEAMER_opt: allowframebreaks,label=
:END:
```

Until the Beamer issue #265 is solved, we need to unset the framelabel as shown above (label=).

Figures



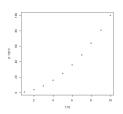


Figure : The caption is always placed below the figure.

TikZ

```
http://tex.stackexchange.com/questions/64075/beamers-visible-inside-a-tikz-node I'm very happy.
```

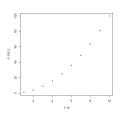
BMCOL

TODO Specify 5cm BMCOL Two lines.

One line (but aligned).

Multiple columns

Two lines.



Result of an evaluation on two columns

2

... a fancy verbatim block ...

structureenv environment

- For highlighting text.
- To help the audience see the structure of your presentation.

Paragraph Heading.

block environment

Answered Questions

How many primes are there?

Open Questions

Is every even number the sum of two primes?

alertblock environment

- Inserts a block whose title is highlighted.
- Behaves like the block environment otherwise.

Wrong theorem

1 = 2.

exampleblock environment

- Inserts a block that is supposed to be an example.
- Behaves like the block environment otherwise.

Example

The set $\{1,2,3,5\}$ has four elements.

theorem environment

• Inserts a theorem.

Theorem

There is no largest prime number.

theorem environment

- Inserts a theorem.
- Simpler solution
 - More readable
 - ▶ Less powerful: you can't nest blocks of the same type with this syntax

Theorem

There is no largest prime number.

definition environment

- Behaves like the theorem environment, except that the theorem style definition is used.
- In this style, the body of a theorem is typeset in an upright font.

Definition (definition)

Contents of definition

example environment

- Behaves like the theorem environment, except that the theorem style example is used.
- A side-effect of using this theorem style is that the contents is put in an exampleblock instead of a block.

Example (Example)

Contents of example

example environment

• Simpler solution:

Contents of example

proof environment

• Typesets a proof.

proof.

• Suppose *p* were the largest prime number.

• But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

proof environment

Typesets a proof.

proof.

- Suppose *p* were the largest prime number.
- Let q be the product of the first p numbers.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

proof environment

Typesets a proof.

proof.

- Suppose *p* were the largest prime number.
- Let q be the product of the first p numbers.
- Then q + 1 is not divisible by any of them.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

beamercolorbox environment

• Create colored boxes.

Text

verse environment

 $Contents\ of\ verse$

verse environment

• Simpler solution:

 $Contents\ of\ verse$

quotation environment

- Use quote or quotation to typeset quoted text.
- quotation has paragraph indentation.

Contents of quotation

quote environment

- Use quote or quotation to typeset quoted text.
- quote hasn't paragraph indentation.

Contents of quote

quote environment

- Use quote or quotation to typeset quoted text.
- quote hasn't paragraph indentation.
- Simpler solution:

Contents of quote

Verbatim

Extra environments

For simple environments, use:

3 Test of a new environment

I think we should changes some environment placeholders:

- Introduce %r which would stand for the raw headline (without any processing)
- %H and %U would use the raw headline text instead.

```
The previous definition would become: '("textpos1" "w" "\%r \%a {" "} \")
WDYT?
```

- Environment options may be given using the BEAMER_opt property.
 They will be enclosed in square brackets and inserted where %o
 appears in the environment definition. (with an example, but I can't
 think of one now)
- Additional arguments may be written into the environment's headline, and inserted into the LATEX string using %r (raw headline text, no processing).

Overlay/action specification (act)

• Headlines support BEAMER_ACT properties.

Dynamic list are possible on a case by case basis :

```
- Q@beamer:<1->@@ Item
- Q@beamer:<2->@@ Item
```

and as a frame property:

```
* Headline
:PROPERTIES:
:BEAMER_ACT: [+-]
:END:

- Item
- Item
```

Overlay/action specification (act)

- Headlines support BEAMER_ACT properties.
- It is translated as an overlay/action specification, or a default overlay specification when enclosed within square brackets.

Dynamic list are possible on a case by case basis :

```
- @@beamer:<1->@@ Item
- @@beamer:<2->@@ Item
```

and as a frame property:

```
* Headline
:PROPERTIES:
:BEAMER_ACT: [+-]
:END:

- Item
- Item
```

Options for the current frame (opt)

Headlines support BEAMER_OPT properties.

I'd still like to see something more like a "for-dummies" explanation of passing options and arguments to LATEX entities. I'm not saying the documentation is woefully inadequate (hardly that — Suvayu's page got me rather far, and I got stuck on a couple of details). My experience was: it never would have occurred to me on my own to use the headline text for LATEX code, and if there was a hint anywhere in the docs to suggest that this would be the way to go, I didn't find it. That's a conceptual leap that passed me by.

- This is for frames, and for environments within a frame
- It specifies options for the current frame or block, and will automatically be enclosed within square brackets.
- fragile option is added automatically
- You might want to put allowframebreaks=0.9 there

Skip proof nil

Summary



A. Salomaa.

Formal Languages.

Academic Press, 1973.



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Formal Languages.

Academic Press, 1973.



E. Dijkstra.

Smoothsort, an alternative for sorting in situ.

Science of Computer Programming, 1(3):223–233, 1982.



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Formal Languages.

Academic Press, 1973.



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E. Feldman and J. Owings, Jr.

A class of universal linear bounded automata.

Information Sciences, 6:187–190, 1973.

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🔋 E. Dijkstra.

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Science of Computer Programming, 1(3):223–233, 1982.

E. Feldman and J. Owings, Jr.

A class of universal linear bounded automata.

Information Sciences, 6:187–190, 1973.

🔋 P. Jančar, F. Mráz, M. Plátek, and J. Vogel.

Restarting automata.

FCT Conference 1995, LNCS 985, pages 282-292. 1995.

Proof details

Text omitted in main talk.

More details

Even more additional material.

Abbreviations