# **Org-Beamer Reference Card**

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2013-02-06



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# **Outline**



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#### You need a beamer entry in org-e-latex-classes

- - Name beamer isn't mandatory

Installation

It has to match the class requested by #+LaTeX\_CLASS:

```
(add-to-list 'org-e-latex-classes
             '("beamer"
               "\\documentclass[presentation,t]{beamer}
                [DEFAULT-PACKAGES]
                [PACKAGES]
                [EXTRA] "
               ("\\section{%s}" . "\\section*{%s}")
               ("\\subsection{%s}" . "\\subsection*{%s}")
               ("\\subsubsection{%s}" . "\\subsubsection*{%s}")))
```

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Tips & Tricks Documentation Install LATEX and the Beamer class<sup>1</sup>

Do (require 'org-e-beamer)

Use the appropriate entry in the dispatcher menu

C-c E I O Export to LATEX Beamer, as PDF file and open

C-c E | P Export to LATEX Beamer, as PDF file

- You can have a Beamer translation on any class. including article
  - C-c E l p
    - Use given class
    - Macro usetheme is not inserted (BEAMER THEME ignored)
    - Convert headings as sections

■ C-c E 1 P

OMISSION CLUSE Given class

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# Basic steps to create a Beamer presentation



Specify beamer as document class (instead of article)

```
#+LaTeX_CLASS: beamer
```

 Optionally, override all the class options given in org-e-latex-classes

```
#+LaTeX_CLASS_OPTIONS: [presentation,c]
```

- Structure your LATEX text using sections (= frame title)
  - \* Context
- Place the text of the individual slides inside the sections.

Why?

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The LATEX beamer class allows you to create slides, and export them to PDF.

If you need a WYSIWYG software, don't use LATEX Beamer. Use the evil PowerPoint – though, one must admit, it's more how people use it which is the problem.

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The beamer class has several useful features:

- You can easily and intuitively create sophisticated overlays.
- Finally, you can easily change the whole slide theme or only parts of it.

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The beamer class has several useful advantages:

- You only need a text editor and LATEX to create a slideshow
- You only need a PDF reader to show it<sup>2</sup>
- Your presentation is in a light text file (+ media if present)
- There are plenty of themes readily available
- ▶ Big letters<sup>3</sup> = less text = more easy to read / understand

You make sure that your presentation can run on any computer.

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<sup>&</sup>lt;sup>2</sup>they are nearly everywhere

<sup>&</sup>lt;sup>3</sup>you can of course apply any LaTEX cosmetic modification to your text

# Why Org-Beamer?

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# Why Org-Beamer?

Much better for Beamer. See discussion

http://tex.stackexchange.com/questions/1264/

typing-and-editing-beamer-presentations

#### Examples

that everything you can do with Beamer, you can also do i with Org-Beamer.

Other good example are available on the LATEX Beamer

homepage

<sup>a</sup>as you can already see, you can easily add hyperlinks

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#### Headlines

- Headlines fall into three categories
  - 1. Sectioning elements
  - 2. Frames (at org-e-beamer-frame-level)
  - 3. Blocks

#### Basic steps

Use C-c C-b to **select the environment** to be used for an entry, which will set both its :BEAMER\_env: *property* value and a *tag* (only a visual aid, it has no semantic meaning). This requires #+startup: beamer.

#### Properties in column view

► Env

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# Frame and layers

#### pause visible

#### Frame

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# Standard commands

agenda visible/invisible uncover aler

@@e beamer @@@some emphasized text

will be translated as

alert some emphasized text

in the ATEX file, and produces:

some emphasized text

in the resultant PDF file.

#### Lists

Lists can be unordered:

▶ blond

# **Standard commands**

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# Standard commands

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▶ blond

# Démarrer une application Java ou

# autre



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- Sectioning
- **Animations**
- Button {Test1} marche à merveille.

Note: for a secret section or frame (not referenced in the TOC), don't put a section/frame title... Leave it blank.

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- Another one, after one click
- Last one, after another click

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One item

**Overlays** 

- ► Another one, after one click
- Last one, after another click

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- 1. Two more to go
- 2. One more to go
- 3. Last chance...
- 4. BOOM!

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## Time bomb

#### 1. Two more to go

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# The XXX pause XXX command will create an overlay

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The XXX pause XXX command will create an overlay wherever we place it.

A much more flexible way to create overlays is to use . For instance  $\{The\ dog\ jumped\ the\ fence.\}$  would display that sentence in the third and all subsequent slides in the current frame.

only et uncover qui prennent un argument entre <>, puis un argument normal entre {}, qu'elles n'affichent que sur les slides spécifiées. La différence entre les deux est qu'avec only, le texte est jeté, tandis qu'avec uncover, il occupe sa place mais est transparent. Par exemple, avec : pif {paf} Abcd-Efgh ljklmn} ouais!

Par défaut, le texte caché est complètement invisible. Il est

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#### For alternative Beamer themes, check out:

- ▶ http://www.hartwork.org/beamer-theme-matrix/
- ► http://www.pletscher.org/writings/latex/beamerthemes.php
- ... or create your own theme with

```
http://titilog.free.fr/index.htm.
```

With the old exporter:

```
\textit{\#+BEAMER\_HEADER\_EXTRA: } \\ \textit{\text{usetheme}} \{\textit{default}\} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \{\textit{default}\} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \} \\ \textit{\text{usecolortheme}} \{\textit{\text{usecolortheme}} \} \} \\ \textit{\
```

#### With the new exporter:

```
#+BEAMER_THEME: mc
#+BEAMER_COLOR_THEME: default
```

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#### **General themes**



#### All accept options in square brackets.

#+BEAMER\_THEME: [secheader]Madrid

#### produces:

\usetheme[secheader]{Madrid}

in the resultant LATEX file.

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# **Colors**



#+BEAMER\_COLOR\_THEME: crane

#### produces:

\usecolortheme{crane}

in the resultant LATEX file.

#+BEAMER\_FONT\_THEME:

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#+BEAMER\_INNER\_THEME:

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# **Exterior**



#+BEAMER\_OUTER\_THEME:

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# **Special functionality**



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# **Template**



Direct export to HTML (thanks to Org)

#### Startup: beamer

# LATEX class

# LATEX class options

- top vertical alignment for all frames

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## Frame template



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# Resize an image



#### You can scale an image by:

explicitly setting its scale factor

```
#+ATTR_LaTeX: :options "scale=1.0"
```

 matching a given width or height while keeping the aspect ratio

```
#+ATTR_LaTeX: :options "width=0.95\\linewidth"

Note — Any backslashes inside the double quotes need to escaped.
```

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By default, images are not centered horizontally.

d:/Users/fni/Pictures/Dock.jpg

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# How to center images horizontally?



Place each graphic inside a center environment

```
#+LaTeX: \begin{center}
#+ATTR_LaTeX: width=0.5\linewidth
[[~/Pictures/Dock.jpg]]
#+LaTeX: \end{center}
```

d:/Users/fni/Pictures/Dock.jpg

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# How to center images horizontally?



Add a caption

```
#+CAPTION: Dock
#+ATTR_LaTeX: width=0.5\linewidth
[[~/Pictures/Dock.jpg]]
```

d:/Users/fni/Pictures/Dock.jpg

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# **Agenda (Outline)**



To get a table of contents (or "Agenda" section), you need both num and toc set to t in your options — as the toc:t setting is actually ignored as you have not asked for numbering...

#+OPTIONS: num:t toc:t

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#### **Recurrent slides**



Tell Beamer to insert the outline (or any other recurrent slide) at each beginning of section:

```
\AtBeginSection[]
{
  \begin{frame} < beamer >
    \frametitle{Layout}
    \tableofcontents[currentsection]
  \end{frame}
}
```

Here, the table of contents will be displayed, with the current section being highlighted.

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#### **Notes**



Using a subtree with a B\_note or a B\_noteNH property would do this.

Three alternatives to tell beamer (not) to include note slides in the presentation:

```
\setbeameroptions{show notes}
\setbeameroptions{show only notes}
\setbeameroptions{hide notes}
```

- whatever you want to put in notes basically...
- bla bla

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# How to resize slides to A4 page?



See http://tex.stackexchange.com/questions/9750/page-size-too-small-when-using-beamer-class

## Agenda in 2 columns?



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# How to hide the subsections from the navigation sidebar?



hideothersubsections

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# How to make the lower left corner of my picture start exactly at the lower left corner of my slide?



You have to set it as background and insert an empty slide - then you have it.

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# Full frame (no title)

There is now a "fullframe" environment.



> That would be definitely nice. I think it is quite common that you want to > get rid of everything to have more space for a big drawing > (moreover it breaks the monotony of the layout)

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