Onera/DTIM

Documentation of the acmebeamer package.

A presentation like/showcase document.

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Package options

portrait

Swaps the height and width of the document.

Title page

Usual and basic way

\maketitle Modified to typeset the macro \inserttitlepage inside a frame environment.

 $\verb|\titlegraphic| Sets the value of \verb|\titlegraphic|.$

\setbeamertemplate Define the template to use for the title page. Same as \titlegraphic in this context.

Going a bit further

\maketitle actually takes two optional arguments. The first one is passed to \setuptitlepage (see below), the second one is passed to the frame options. If you want to give the second argument without the first one, you must give an explictly empty first argument.

Use as \maketitle[<options to \setuptitlepage[...]>][<options to \begin{frame}[...]>].

- The package provides a way to setup the title page with the macro \setuptitlepage[...], according to a few (for now) options of the default template. There are three options as of now, lineoffset, logo and customlogo.
 - lineoffset: sets the height of the line in the default template.
 - ▶ logo: two values only (for now), none and institute. One way guess what they do.
 - ▷ customlogo: sets its value to be the logo. The last one wins.

Table of contents

\frametoc

Takes one mandatory argument (in braces) **and then**, an optional argument (in brackets). The mandatory argument is the title of the frame. The optional argument is passed to \tableofcontents.

Use as

 $\verb|\frametoc{<| frame title>| [<| options to \tableof| frameto| f$

Page numbers

\setuppagenumbers

Takes one mandatory argument in square brackets, a key value list consisting of two possible keys: style and custom. The latter sets the page numbers command to typeset its argument. There are three values possible (for now) for the style key: none, boxed and plain. The last two typeset the pages as <page number>/<total number of pages>.

Use as

\setuppagenumbers[...].

Head- and footline

The acmebeamer package provides a flexible way to customize the head- and footline through two commands \setupheadline and \setupfootline described below.

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\setupheadline \setupfootline Takes one mandatory argument in square brackets, a key value list. There are four key available: left, center, right and frame. The first three customize the respective places and frame is used to customize the width and the margins.

You can set those with \setupheadline[frame={width=.8\hsize, margin=3pt, topmargin=5pt}] for example. Available are width, margin, leftmargin, rightmargin, topmargin and bottommargin.

The other options have the same behaviour and options. The values start being empty.

- Standard options from beamer: title, subtitle, author, date, section and section.
- New options, the basic way: page numbers and empty.
- New options, the tricky way: don't use right=... but right/subsection=... with the following options available: text (same as doing right=subsection), bullets and squares. At some point, the package may offer a direct solution.

The present document uses \setupheadline[left=title, right=page numbers] \setupfootline[].

This particular slide uses \setupheadline[left=section, center/subsection=bullets] \setupfootline[left=subtitle, center=author, right=date].

One can notice that the short forms are used for the standard options and that previous setups are not erased (see the page numbers on the right). If all right, center and left are empty, the head- or footline doesn't occupy any space.

Frametitle Great feature added!

template frametitle

Has been modified so that if the frame title is empty, then the template is not used. Besides, the subtitle always occupies space if the template is used (may change in the future).

\begin{frame}
...
\end{frame}

Has been modified to be able to omit the title if one wants to use the same as the current section or subsection. Here are the rules:

- No title provided:
 - uses the subsection (\subsecname) if not empty;
 - or uses the section (\secname) if not empty;
 - or uses the template with an empty title (if a subtitle is provided, it will be typeset).
- A title has been provided: normal behaviour. As a remainder, one can specify a title and a subtitle according to the following:
 - as the first and second braced group if nothing happens before the groups except for spaces and comments \begin{frame} {<title>} {<subtitle>};
 - as arguments to the commands \frametitle and \framesubtitle inside the frame environment.

How can we add a subtitle to a frame that has the same title as the (sub)section? This slide uses \begin{frame} \framesubtitle(...).

There is a small catch however: you must use $\mbox{\sc \maketitle}$ or you can use $\mbox{\sc \maketitle}$ or the frames you want to use this feature on. All the following frames will use the feature.

Better itemize environment

\begin{sitemize}
...
\end{sitemize}

Sometimes, we would like to list a bunch of things, but we do not want to start at level 1. This is the $raison\ d'\hat{e}tre$ of this environment. You can specify the level in an optional argument: allowed values are 1, 2 and 3. The values are relative to the current nesting level. The default level is 1 for compatibility reasons.

Example

- 1. Text goes here.
 - one-one (third level)
 - one-two (third level)
- 2. Text goes here.
 - two-one (second level)
 - two-two (second level)
 - **a** a
 - **b** b
 - two-three (second level)

Typeset with

```
\begin{enumerate}[<+->] % remove 'handout' to see
\item Text goes here.
  \begin{sitemize}
  \item one-one (third level)
  \item one-two (third level)
  \end{sitemize}
\item Text goes here.
  \begin{sitemize}
  \item two-one (second level)
  \item two-two (second level)
    \begin{enumerate}[a]
   \item a
    \item h
    \end{enumerate}
  \item two-three (second level)
  \end{sitemize}
\end{enumerate}
```

Blocks on steroids



Blocks are completely rewritten from scratch. They are still accessible with the same commands, but the arguments are somewhat different and are given differently too.

Sets the color of the title/body, this can be a beamer color or just a color (like "yellow").

#1 the arguments

The beamer blocks take only one optional parameter **in braces** which is the title of the block, if any. Now, there is two optional arguments, one in braces, the title, **and then** one in square brackets. The latter are options destined to the new system of blocks.

$\begin{blockname} {<title>} [<options>]... \end{blockname}.$

#2 basic options

title/bodycolor

width Sets the width of the block.

color Sets the color of the block

align Sets the alignment of the block, not the text inside the block (see below).

bodyheight Sets the height of the blockbody.

. .

title/bodystyle Sets the style of the title/body (like "\bfseries" or "\slshape\large\color{green}").

Sets the style of the dide, body (like (b) set less of (standpe (tally e) to the dide, body).

title/bodyalign Sets the alignment of the text inside. Possible values are: default, flushleft, flushright and center horizontaly and top, bottom and middle vertically. You can give several (typically two) as a list in braces: bodyalign={center,top}. Better avoid spaces.

#3 advanced options

title-/bodycustomframe Sets the frame TikZ path. You can disable the frame with false or anything that will be title-/bodybackground in a tikzpicture environment. So true alos works, but is confusing. The same goes for the background. (Defaults on third next slide.)

title-/bodyoptions Options passed to the framedtext environment. (See next section.)

Blocks on steroids Examples

(2/4)

With a yellow title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis accumsan varius nisl placerat volutpat.

Without title, bold centered body text.

Left aligned title

Fixed body height to 20pt, bottom right aligned.

A new one, emphasisblock

- one
- two
- three

```
\begin{block} {With a yellow title}
  [titlecolor=yellow]
  \smalllorem
\end{block}
```

```
\begin{alertblock}
[bodyalign=center, bodystyle=\bfseries]
Without title, bold centered body text.
\end{alertblock}
```

```
\begin{exampleblock} {Left aligned title}
[titlealign=flushleft, bodyheight=20pt,
    bodyalign={bottom,flushright}]
    Fixed body height to 20pt, bottom and right aligned.
    \text{hend} \text{exampleblock}\)
```

```
\begin{emphasisblock} {A new one, emphasisblock}
\begin{sitemize}
\item one
\item two
\item three
\end{sitemize}
\end{emphasisblock}
```

The case of lists and enumerations

The use of lists in blocks is somewhat screwed up if there is text around. The package offers a dirty solution in the form of a macro to use between the text and the \sl itemize/enumerate environments: \sl itemize/enumerate environments: \sl

Before text: \fixvspace macro between text and environment.

- one
- two

After text: no \fixvspace macro between text and environment.

- one
- two

\defineblock

Blocks on steroids Default setup

(4/4)

\setupblock[...][...] Setups a block, several blocks at once or setup the default for all blocks. Unless specified \setupblocks[...][...] otherwise, blocks inherit their parameters from blocks. If defined from another block, they \setupblocks[...] inherit from it. All parameter set explicitly is specific to the block.

```
[default] [color=structure]
  \defineblock
    [alert] [color=alerted text]
  \defineblock
    [example] [color=example text]
  \defineblock
    [emphasis] [color=emphasis]
  % color of the bullets
  \setbeamercolor {defaultblockitems}
    {parent=structure}
  \setbeamercolor {alertblockitems}
    {parent=alerted text}
  \setbeamercolor {exampleblockitems}
    {parent=example text}
  \setbeamercolor {emphasisblockitems}
    {parent=emphasis}
  % map defaultblock to LaTeX block
  \let\defaultblock\block
  \let\defaultendblock\endblock
% example
  \defineblock
    [newexpample] [example]
  \defineblocks
    [one.two. three] [default]
  \defineblocks
    [four.five.six] [width=.5\hsize]
```

```
\setupblocks[% no spaces after [ or before commas
  width=\hsize.
  align=center,
  customframe=
   {\path [draw] (0,0) rectangle ++(\framedboxwd, -\framedboxht);},
  custombackground=
   {\path [fill] (0,0) rectangle ++(\framedboxwd, -\framedboxht);},
  frameoptions=
   {offset=0pt,
   tikzoptions={draw=fq, fill=bq, thick, rounded corners=2pt}},
  titlecustomframe=none.
  titlecustombackground=
   {\path [fill=fq]
   {[sharp corners] (0,0) -- ++(0,-\framedboxht) -- ++(\framedboxwd.0)}
   {[rounded corners=2pt] -- ++(0,\framedboxht) -- cycle};},
  titleoptions={offset=4pt, bottomoffset=2pt, left=\strut},
  titlecolor=white,
  titlestyle=\usebeamerfont{block title},
  titlealign={center},
  bodycustomframe=none,
  bodycustombackground=false,
  bodyoptions={offset=4pt},
  bodycolor=normal text.
  bodystyle=\usebeamerfont{block body},
  bodyheight=-\maxdimen.
  bodyalign={default, middle}1
% example
\setupblocks[default,alert][align=left]
```

One more thing ...

(1/2)

The framed command and the framedtext environment

The acmebeamer package relies on a package named acmetoolbox which provides (among other things) facilities to frame text similarly to packages like bologo or fancybox. These facilities come as two commands for short snippets and an environment. They rely on TikZ to do the framing.

\framed Frames a text with a \hbox. It takes one optional argument in square brackets and one mandatory argument which is the text to frame. Use as \framed[<options>1{...}.

Ditto as \framed, except the baseline of the text inside is the same as the text outside. \inframe

Frames a text with a \vbox. It takes one optional argument in square brackets. \beging{framedtext}

\end{framedtext}

You actually already saw some framed text: the notice on slide 13. This was an example of inframed text.

There is vet another (convenient) way to highlight text in paragraphs and formulas.

Highlights text. This command is overlay-aware! \hl \hl[<tikz options>]{...}

Place a named mark. The name is optional and is specified in square brackets. The mandatory argument is placed in a TikZ node named after the name supplied (mark by default). \placehlmark[<name of mark>]{<text to be marked>}

\hlmarks

\placehlmark

Used to highlight several marks. This sommand is overlay-aware too! An optional argument can be supplied in square brackets to indicate the shape to use to hightlight the marks, this is ellipse by default. (See the source to understand how it is used.)

\hlmarks[<tikz options>l{(some) (marks) (to) (ellipse)}

One more thing ... The available options

(2/2)

top, bottom	boxed by that time).
<pre>left/right/ top/bottom/frame</pre>	Take values $_{\rm on}$ and $_{\rm off}$ to activate/deactivate the left, right, top, bottom or the whole frame. The code is clever enough to use the whole frame if all sides are $_{\rm on}$.
left/right/ top/bottom/margin	Sets the margins around the frame (in addition to the width).

Put something at the left, right, top and bottom respectively arround the text (which will be

top/bottom/offset width, minwidth, maxwidth

left/right/

maxheight

alian

left, right.

Sets the width, minimum or maximum width of the resulting frame.

height, minheight,

Sets the height, minimum or maximum height of the resulting frame.

Defines the alignment of the text in the frame. (See title/bodyalign in previous slides.)

Takes values on and off to activate or deactivate the background. background

Custom TikZ path to be used to draw the frame. customframe

Default is

Default is \path [draw] (0,0) rectangle ++(\framedboxwd,-\framedboxht);

Sets the offsets inside the frame (part of the width).

custombackground

Custom TikZ path to be used to draw the background.

\path [fill] (0,0) rectangle ++(\framedboxwd,-\framedboxht); tikzoptions Options passed to the tikzpicture environment used to draw the frame.