

TU/e Slides using Beamer

Version 2008

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U/B

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Department
Of
Computer Science

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Where innovation starts

PDF Presentations using L^AT_EX

Using the TU/e Beamer Theme

TU/e Theme Options

Beamer Features

- Animations

- Piecewise Enumeration

- Inserting Multimedia

- Notes

- Handouts

- Different Backgrounds

Conclusion

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Several packages exist to create Powerpoint-like presentations in PDF using (PDF)L^AT_EX. Until now the only possibility to create slides in the TU/e style was using TU/ePDFScreen, based on the standard package pdfscreen. This package has several disadvantages, e.g. many warning messages, no floats allowed, slideshows can only be created using PDFL^AT_EX, a postprocessor is needed to show slides in several steps, no animations possible.

In the mean time another PDF presentation package had been written that became some kind of standard: beamer. The beamer package has a huge amount of possibilities, at least too many to mention here. Now a TU/e theme for beamer has been created so L^AT_EX users can create TU/e style presentations and still use the full range of features included in beamer.

The TU/e Beamer 2008 theme is included for the first time on the MiKTeX 2.7 CD-ROM, but it can be downloaded from <http://www.win.tue.nl/latex>. Usage is very straightforward:

```
\usepackage{beamer}  
\usetheme{tue2008}
```

All you have to do now is divide your presentation into slides. A slide is called “frame” in the beamer package, but “slide” is also recognised.

```
\begin{frame}  
\frametitle{Title}  
  
Frame contents.  
  
\end{frame}
```


Several options have been defined for the tue beamer theme. All are key=value combinations.

- | | |
|--------------|---|
| official | when set to true, the current style is replaced by a style that is more suitable for non-scientific presentations. |
| department | sets the department name that will be printed in the footer of each slide. Valid values are: <code>ele</code> , <code>win</code> , <code>bmt</code> , <code>bwk</code> , <code>id</code> , <code>chem</code> , <code>tm</code> , <code>phys</code> , <code>wtb</code> . If you want the English department name, simply add <code>uk</code> to the value. |
| theme | sets the main theme colour. Five supported colours are: red (default), blue, cyan, orange, green. |
| titlebgimage | uses the specified image as background in the title slide. |

Example:

```
\documentclass[t]{beamer}
\usetheme[department=win,official=false,theme=blue,
          titlebgimage=jabari.png]{tue2008}
```

Multiple Slides per Page

Another option for the tue beamer theme that can be set, is the number of slides that will be printed on one page. This option is very useful for printing handouts (which will be discussed later). Valid values are 1, 2, 3, 4 and 6.

Example:

```
\usetheme[department=winuk,slidesperpage=2]{tue}
```

There is a special environment to create a TU/e title page:

```
\begin{titleframe}  
\end{titleframe}
```

Remember that you can specify a background image for the title page by using the `titlebgimage` option in the TU/e theme (see previous slides).

You can additionally specify a (company) logo by using the `titlelogo=...` option, also in the TU/e theme.

Since TU/e Beamer is only a theme written for the beamer package, you can use all of beamer's features. Open the beamer user guide for more information. You can find it using the LaTeX Packages Help in the Documentation subfolder of your MiKTeX Start Menu group.

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Some features are:

- ▶ reveal slides and animations in multiple steps

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- ▶ include multimedia (movies, sounds)

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```
\begin{enumerate} [<+>]  
...  
\end{enumerate}
```

1. first item

```
\begin{enumerate} [<+->]
```

```
...
```

```
\end{enumerate}
```

1. first item
2. second item

```
\begin{enumerate} [<+>]  
...  
\end{enumerate}
```

1. first item
2. second item
3. third item

```
\begin{enumerate} [<+>]  
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2. second item
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With transparency (`\setbeamercovered{transparent=30}`)

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2. second item
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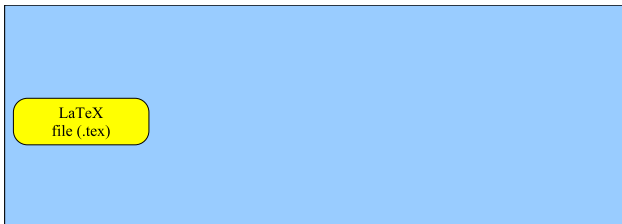
1. first item
2. second item
3. third item

This slide gives an example of how to use the beamer feature to show several images one by one by placing them on top of each other.



```
\includegraphics<1->[width=7cm]{figure1}%  
\llap{\includegraphics<2->[width=7cm]{figure2}}%
```

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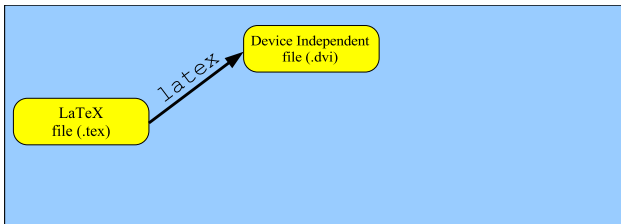


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\includegraphics<1->[width=7cm]{figure1}%  
\llap{\includegraphics<2->[width=7cm]{figure2}}%
```

Including images in several steps

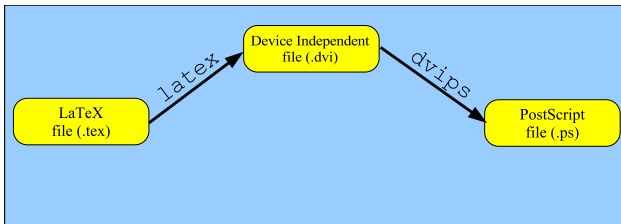
10/16

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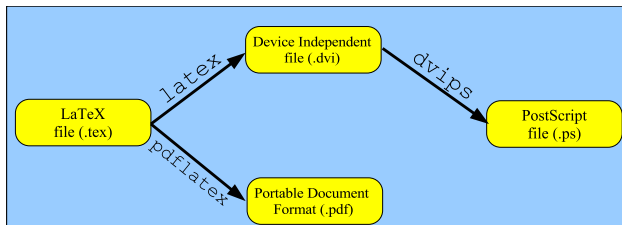
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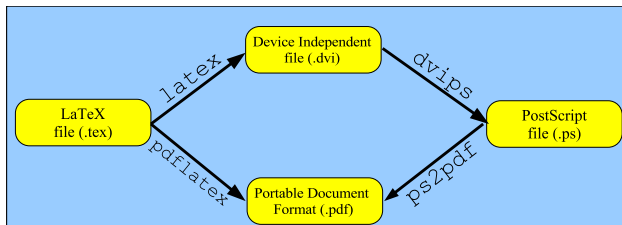
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An equation in several steps

11/16

Use the `\uncover` command in equation arrays:

$$E(\bar{y}) =$$

An equation in several steps

11/16

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$$E(\bar{y}) = E\left(\frac{\sum_{i=1}^n y_i}{n}\right)$$

An equation in several steps

11/16

Use the `\uncover` command in equation arrays:

$$E(\bar{y}) = E\left(\frac{\sum_{i=1}^n y_i}{n}\right) = \frac{\sum_{i=1}^n E(y_i)}{n}$$

An equation in several steps

11/16

Use the `\uncover` command in equation arrays:

$$\begin{aligned} E(\bar{y}) &= E\left(\frac{\sum_{i=1}^n y_i}{n}\right) = \frac{\sum_{i=1}^n E(y_i)}{n} \\ &= \frac{\sum_{i=1}^n E(\mu + \varepsilon_i)}{n} \end{aligned}$$

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An equation in several steps

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```
\usepackage{multimedia}
```

```
...
```

```
\movie[width=3cm,height=2cm,poster]{}{neutro.avi}
```

Sounds can also be embedded with the `\movie` command.

It is possible to add notes in your slides using the `\note` command. Then specify the beamer option “show notes on second screen”.

```
\setbeameroption{show notes on second screen}  
...  
\note{Some notes for the current slide}
```


Handouts can be created using the beamer handout option:

```
\documentclass[t,handout]{beamer}
```

(the `t` option stands for vertically aligned “top” frames).

The handout option will remove all piecewise appearing material and only show the final versions. It will also execute the option `slidesperpage=2`

It is possible to override this manually.



A Different Background

It is possible to use a different background template, e.g. an empty Powerpoint file that is converted to PNG, JPG, EPS or PDF.

```
\usebackgroundtemplate{  
  \includegraphics[width=\paperwidth,  
                    height=\paperheight]{LaQuSo}  
}
```

- ▶ TU/e Beamer is a theme for the standard beamer package to create TU/e style presentations.
- ▶ It can be used with \LaTeX and \PDF\LaTeX
- ▶ Support for piecewise revealing of slides
- ▶ Limited support for animations
- ▶ Notes can be displayed on a second screen
- ▶ Easy creation of handouts, supports multiple slides on one page

Questions or requests about TU/e Beamer?

⇒ Send an email to marko@win.tue.nl