

L^AT_EX-course

4th week: Presentations

T_EXniCie

October 15, 2018



```
\begin{figure}[h!]  
\centering  
\includegraphics[width=0.45\textwidth]{plaatje}  
\caption{A caption}  
\label{fig:plaatje}  
\end{figure}  
\ref{fig:plaatje}
```

Figure: A caption

- The document class is the kind of document you write
- Until now we used only *article*. Now it is time for *beamer*.
- The document class has optional parameters:

```
\documentclass[11pt, a4paper]{article}
```

An example

```
\documentclass{article}
\usepackage{marvosym,hyperref}

\begin{document}
A small example.
\end{document}
```


Different styles:

Een presentatie gemaakt met \LaTeX

Een presentatie met een ondertitel

De \TeX niCie

Naam van instituut
Universiteit Utrecht,
The Netherlands

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Introduction

Methods

Results and
Discussion

Conclusion

Outlook



Universiteit Utrecht

- <https://www.a-eskwadraat.nl/Vereniging/Commissies/hektex/>

<https://www.a-eskwadraat.nl/Vereniging/Commissies/hektex/>

- The UU beamer class is in the course material

MikTeX usually needs administration rights

Presentations

Use different styles:

- A-Eskwadraat: `\usetheme{aes2}`
- UU: `\usetheme[sidebar=true]{uu}`
- Default styles: `\usetheme{<style>}`



Colour

Use different colour styles:

Default styles: `\usecolortheme{<stijl naam>}`

For Example: `\usecolortheme{wolverine}`



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Example slide

- Easy insert slide
- With formula

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi} \quad (1)$$



Example Code

```
\begin{frame}
\frametitle{Example slide}
\begin{itemize}
\item Easy insert slide
\item With formula
\begin{align}
  Maths code
\end{align}
\end{itemize}
\end{frame}
```



Blocks

- Formulas or important text in *block*-environment
- A block environment needs a title!

Block title

Here you can enter formulas or text

Example block title

Here you can enter examples

Alert block title

Something important

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Here you can enter examples

Alert block title

Something important

Example code

```
\begin{block}{Block title}
```

Here you can enter formulas or text

```
\end{block}
```

```
\begin{exampleblock}{Example block title}
```

Here you can enter examples

```
\end{exampleblock}
```

```
\begin{alertblock}{Alert block title}
```

Something important

```
\end{alertblock}
```



Columns

- *Blocks* Blocks are on top of each other
- *Columns* can put items next to each other
- Use the environments `\begin{columns}` and `\begin{column}`
- As optional parameter you can determine the alignment
- *T* for top vertical, *c* voor centre vertical, etc.



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Example code

```
\begin{frame} {Example of columns}
\begin{columns}[T]
\begin{column}[T]{5cm}
Some text
\end{column}
\begin{column}[T]{5cm}
\includegraphics[height=3cm]{plaatje.png}
\end{column}
\end{columns}
\end{frame}
```



Sections

- Just as in the *article* class you can use sections and subsections
- And use them in the table of contents:
`\tableofcontents`
- Some styles have a progress bar by default



Animations

- Just like PowerPoint you can use animations
- This is done by using the parameter [$< + - >$] in itemize environment
- With this option each click a new item of the list will appear

Example:

```
\begin{itemize}[< + - >]  
\item An item  
\item Two items  
\end{itemize}
```



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\item An item
\item Two items
\end{itemize}
```

```
\begin{itemize}[< + - >]
\item An item
\item Two items
\end{itemize}
```

- You can change the behaviour for each item:
- By putting $\langle 1 - \rangle$ behind `\item` the item is always visible
- A $\langle 2 - \rangle$ after the second click
- But with $\langle 2 - 2 \rangle$ it is gone after a click
- Generally: $\langle n - m \rangle$ is visible from slide n to slide m

More animations

- You can change the behaviour for each item:
- By putting $\langle 1- \rangle$ behind `\item` the item is always visible
- A $\langle 2- \rangle$ after the second click
- But with $\langle 2-2 \rangle$ it is gone after a click
- Generally: $\langle n - m \rangle$ is visible from slide n to slide m

Example: `\begin{itemize}` `\item` $\langle 1- \rangle$ One `\item` $\langle 2- \rangle$
Two `\end{itemize}`



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Example: `\begin{itemize} \item<1-> One \item<2-> Two \end{itemize}`

- You can add a pause in the slide:
- Dit doe je simpelweg door ergens het commando `\pause` te zetten.

Pauses

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100

- All animations are greyed out instead of invisible
- You can change this by `\setbeamercovered`
- If you want the text to be slightly visible
`\setbeamercovered{dynamic}`
- If you want the items to be invisible:
`\setbeamercovered{invisible}`

- L^AT_EX supports handouts.
- You can pass this as an option to the document class:
handout
- `\documentclass[handout]{beamer}`
- All animations will be ignored.

<https://en.wikibooks.org/wiki/LaTeX/Presentations>

Hora ad discendum $\text{L}^{\text{ATE}}\text{GEM}$ est