Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week

ATEX-cursus 4th session: Intermidate

T_EXniCie

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1 december 2014



Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
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Recap					

```
Last week we made a start with pictures.

\begin{figure}[h!]

\centering

\includegraphics[scale=0.5]{picture}

\caption{A caption}

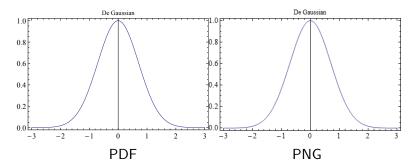
\label{fig:picture}

\end{figure}

\ref{fig:picture}
```



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Spot t	he differer	nce			





Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Packa	ges				

What are they

- To get extra functionality you sometimes need to load packages
- These can be packages to add pictures like graphix
- But also home-made package like those of A-Eskwadraat

How to load

- Use the command usepackage
- You write down the package you want, i.e. \usepackage{fullpage}
- If you load a package for the first time there'll be a pop-up if everything goes as planned
- If this is not the case we have to do more work, this we will cover later

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Docun	nentclass				

- Till now on we have worked with only one documentclass
- The documentclass is the option for what kind of document you want to make with LaTeX
- Till now on that has been *article*, but soon we will other examples for instance *beamer*
- With document class you can also use some options for your document, for instance \documentclass[12pt]{article}

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
An exa	ample				

An example

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

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



Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Nice p	resentatio	n			

- Easy presentations, with formulae!
- Put you're documentclass on beamer
 \documentclass{beamer}



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Examp	le slide				

- Very easy to make a slide
- With a formula

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



Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Examp	ole code				

```
\begin{frame}
\frametitle{Example slide}
\begin{itemize}
\item Very easy to make a slide
\item With a formula
\begin{align}
Formula code
\end{align}
\end{itemize}
\end{frame}
```



Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Blocks					

- You can add extra layout easily
- For example with blocks using the *block* environment
- Watch out to give them a title, otherwise things will go wrong...



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Blocks					

- You can add extra layout easily
- For example with blocks using the *block* environment
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Title

In here you write nice text or formulae

Title

In here you write an example

Title

In here you write something important

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Voorbe	eeldcode				

```
\begin{block}{Title}
In here you write nice text or formulae
\end{block}
\begin{exampleblock}{Title}
In here you write an example
\end{exampleblock}
\begin{alertblock}{Title}
In here you write something important
\end{alertblock}
```



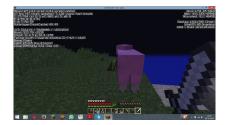
Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Colum	ns				

- Blocks use vertical alignment
- Columns use horizontal alignment
- Use the environmens \begin{columns} and \begin{column}

- Here you can write down how you want to alignment
- *T* for upward central, *c* for vertical central, etc.



Here is some text written





Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Voorbe	eeldcode				

A D > A P > A

```
\begin{frame} {Example of columns}
\begin{columns}[T]
\begin{column}[T]{5cm}
Here is some text written
\end{column}
\begin{column}[T]{5cm}
\includegraphics[height=3cm]{picture}
\end{column}
\end{columns}
\end{frame}
```

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Sectior	าร				

- Just like in a ordinary text you can use sections, subsections, etc.
- These you can put on a slide in a table of contents with \tableofcontents
- You also get a nice overview of the whole presentation above the slide

 $\exists \rightarrow$

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Anima	tions				

- Just like in PowerPoint, LaTeX also has animations in the beamer class
- This is done to give an option to an itemize, for instance: [< +->]

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With this option, on every slide there is one more item

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Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
More a	animations	5			

- You can also do this by hand
- \blacksquare By putting a <1-> behind an **\itemyou** ensure the item is directly visible
- A < 2-> makes it visible the second time, etc.
- With < 2 2 > it comes the second time and leaves afterwards
- So in general: < n m > is visible from the n-th slide up to and including the m-th slide



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Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Pauses					

Uou can also simply add pauses to different parts of a slide

This is done by putting the command \pause somewhere



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Visibili	ty				

- As you might have noticed, at the animations the text that is about to came is already transparent
- You can change this by use of \setbeamercovered
- If you want it visible you use \setbeamercovered{dynamic}
- If you don't want to you can use \setbeamercovered{invisible}

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Hando	uts				

- LaTeX also supports Handouts
- These are simply mad by putting handout as option in documentclass
- So: \documentclass[handout]{beamer}
- All animations will be ignored



- A-eskwadraat has some home-made packages
- These are for instance the minutes package, the letter en the invoice
- We will cover the minutes here, for the letter and invoice one can take a look at our site
- https://www.a-eskwadraat.nl/Vereniging/ Commissies/hektex/packages

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Taking	minutes				

- nice minutes easily made
- for this we use the A-Eskwadraat package notulen



Minutes TEXniCie

aanwezig: Barbera, Kaj-Ivar, Peter, Rik, Aldo afwezig: Janneke

1 oktober 2014

1 Declaring secretary

Aldo will make minutes today. Someone makes a comment

2 Previous minutes

Actiepunt: Peter makes a budget of the course

3 Closure

Rick closes the meeting at 19:45.

Actiepunten

1

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```
Last Week
          Fancy pictures
                      External packages
                                    The Beamer class
                                                   A-Eskwadraat packages
                                                                    Next week
Example code
    \documentclass{notulen}
    titleminutes TFXniCie
     date1 oktober 2014
     aanwezig{Barbera, Kaj-Ivar, Peter, Rik, Aldo, Laurens}
     \afwezig{Janneke}
     begin{document}
     maketitle
    \begin{section}{Declaring secretary}
    \naam{Aldo} will make minutes today.
     opm{\name{Someone} makes a comment}
    \begin{section}{Previous minutes}
    \ap{Peter}makes a budget of the course
    \begin{section}{Closure}
    Rick closes the meeting at 19:45.
     aplijstpp
     end{document}
```

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Lay-out

- in \aanewzig you write down who are present
- sections and likewise work the same
- you can use \naam to emphasize a name
- with \opm you can include an aside

Actions

- to ensure that everyone knows what to do after a meeting we have actiepunten (actions)
- these you write down with \ap and the name of the person and then the action
- ad the end of the document you write \aplijst or \aplijstpp to get a nice list of the actions

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
To inst	all				

- you can vind the package on https://www.aeskwadraat.nl/Vereniging/Commissies/hektex/
- there are also some install instructions here, those are also valid for other pacakges.

Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Presen	tations				

- If you want to make a presentation in the A-Eskwadraat style the one does as follows
- Put the following in the preamble: \usetheme{aes2}



Last Week	Fancy pictures	External packages	The Beamer class	A-Eskwadraat packages	Next week
Next w	veek				

- Next week we will cover the index, appendix and likewise
- Proofs and Listings
- BiBtex; advanced references
- ShareLatex/Writelatex; social TeXing!