GSNS workshop: LATEX beginners

T_EXniCie

Presenters: Thomas & Vincent

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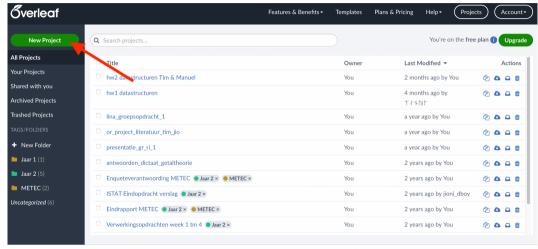
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Schedule

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Formulas · Figures Exercises

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```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{Example project}
\author{Vincent Kuhlmann}
\date{February 2023}
\begin{document}
\mbox{\tt maketitle}
\section{Introduction}
\end{document}
```

Command syntax:

```
\xxx{argument1}{argument2}
\xxx[optional argument]{argument1}{argument2}
```

Example:

\section{Introduction}

- 1) Backslash: we are starting a command
- Command name: 'section', place a header in the document. Takes 1 argument.
- 3) **Argument 1:** the name of the section

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{Example project}
\author{Vincent Kuhlmann}
\date{February 2023}
\begin{document}
\mbox{\tt maketitle}
\section{Introduction}
\end{document}
```

Environment syntax:

```
\begin{xxx}
...
\end{xxx}
```

Example:

\begin{center}

- 1) Begin: We are starting the center environment
- 2) Body: The text to be centered on the page
- 3) End: Now go back to normal

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{Example project}
\author{Vincent Kuhlmann}
\date{February 2023}
\begin{document}
\mbox{\tt maketitle}
\section{Introduction}
\end{document}
```

Document structure:

Preamble.

This is where configuration goes.

- \documentclass: specify a template.
- \usepackage{xxx}: import package 'xxx'.
- Other: a.o. setting the title of your document
- Document body.
 This is where the text and other content go.

What are packages?

LATEX-code written by other people. They can add new commands, change how your document looks, or improve existing functionalities.

Example: package 'xcolor' provides the command \textcolor{red}{some text}.

Syntax: \usepackage[aa=6cm,bb,cc=red]{xxx}

Imports package 'xxx'. The optional argument is a list of instructions.

Most essential packages

- Math packages: amsmath, amssymb Defines \begin{pmatrix}-environment, which is a matrix with parentheses.
- Layout packages: geometry \usepackage[a4paper,margin=2.54cm]{geometry}
- Other: graphicx, babel Graphicx fixes and improves use of images, Babel translates default terms, e.g. 'Inhoudsopgave' instead of 'Contents'.

Available packages are managed by CTAN. On their website you find package manuals.

Exercises and examples from this presentation will not work if you forget required packages. For a good starting point, see https://vkuhlmann.com/latex/example.

```
\begin{document}
This is some text, very \textbf{meaningful} text.
On a new line? And I want
                              spaces, lots of spaces.
This is some text, very \textbf{meaningful} text.
\end{document}
```

What does this look like in the output?

The fix:

```
\usepackage{parskip}
\begin{document}
This is some text, very \textbf{meaningful} text.\\
On a new line? And I want\ \ \ \ spaces,
\hspace{1cm}lots of spaces.
This is some text, very \textbf{meaningful} text.
\end{document}
```



Code	Result	Code	Result
\{	{	{	Begin group
\}	}	}	End group
\%	%	%	Comment
_	_	_	Used in maths
\textasciicircum	^	^	Used in maths
\\$	\$	\$	Math mode
\textbackslash	\	\	Command
\&	&	&	Column separation
\#	#	#	Parameter
\textgreater	>	>	>
\textless	<	<	<

Syntax for text? – Quotes

```
'LaTeX' : 'LaTeX'
`LaTeX' : 'LaTeX'
``LaTeX'': "LaTeX"
```

More with text – Text effects

Result	Code	Result	Code
Text	\textbf{Text}	Text	\texttt{Text}
Text	\textit{Text}	Text	{\tiny Text}
Text	\textsc{Text}	Text	{\LARGE Text}
<u>Text</u>	\underline{Text}	Text	\textcolor{red}{Text} 1

Huge, huge, LARGE, Large, large, normalsize, small, footnotesize, scriptsize, tiny

^{1\}usepackage{xcolor}

```
These are the ingredients:
\begin{itemize}
    \item Carrots
    \begin{enumerate}
        \item Buv
        \item Peel
        \item Chop
    \end{enumerate}
    \item Onions
    Lipsum dolor sit amet.
    \item Potatoes
\end{itemize}
```

These are the ingredients:

- Carrots
 - 1. Buy
 - 2. Peel
 - 3. Chop
- Onions

Lipsum dolor sit amet.

Potatoes

Page margins

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
    \maketitle
    \section{Introduction}
   Hallo iedereen!
\end{document}
```

```
My document
                  1 May 2021
1 Introduction
```

ses

Page margins

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\usepackage[a4paper,margin=2.54cm]{geometry}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
    \maketitle
    \section{Introduction}
   Hallo iedereen!
\end{document}
```

```
My document
1 Introduction
Halis independ
```

Section commands

```
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection{CC}
\subsubsection{DD}
\subsection{EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection{GG}
```

1 AA

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

- $_{2}$ BB
- 2.1 CC
- 2.1.1 DD
- 2.2 EE

Nullam a risus at arcu lobortis viverra vel volutpat diam.

- 3 FF
- 3.0.1 GG

```
\begin{document}
    \maketitle
    \tableofcontents
    \section{AA}
    ...
\end{document}
```

Contents

1	$\mathbf{A}\mathbf{A}$												
2	$\mathbf{B}\mathbf{B}$:
	2.1	CC.											-
		2.1.1	DD.										-
	2.2	EE .											4
3	\mathbf{FF}												•
		3.0.1	GG										4

$1 \quad AA$

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Table of contents

```
\begin{document}
    \maketitle
    \tableofcontents
    \newpage
    \section{AA}
    ...
\end{document}
```

Contents

1	$\mathbf{A}\mathbf{A}$												
2	$\mathbf{B}\mathbf{B}$												
	2.1	CC .											
			DD										
	2.2	EE .											
3	\mathbf{FF}												
		3.0.1	GG										

Exercises!

Slides and exercises are available at texnicie.nl

There are two ways to typeset math:

inline mode

The trigonometric identity is given by $\sin^2(\theta) + \cos^2(\theta) = 1$ for all θ .

display mode

The Pythagorean trigonometric identity is given by

$$\sin^2(\theta) + \cos^2(\theta) = 1 \tag{1}$$

The identity

$$1 + \tan^2(\theta) = \frac{1}{\cos^2\theta} \tag{2}$$

Is also called the Pythagorean trigonometric identity.

```
Text and symbols between \setminus (and \setminus) are treated as math sybmols.
```

```
\documentclass[a5paper]{article}
\begin{document}
The trigonometric identity is
given by ( \sin^2(\theta) + \cos^2(\theta) = 1 ). This identity is also
called the Pythagorean trigonometric identity.
\end{document}
```

The trigonometric identity is given by $\sin^2(\theta) + \cos^2(\theta) = 1$. This identity is also called the Pythagorean trigonometric identity.

Math packages

The following three packages are useful for typesetting mathematics:

```
\documentclass[a4paper, 10pt]{article}
\usepackage{amsmath}
\usepackage{amssvmb}
\usepackage{amsthm}
\begin{document}
\[
    ax^2 + bx + c = 0 \qquad
    \text{the general form of the quadratic equation}
\end{document}
```

These provide options for adding text to formulae, extra symbols such as \boxplus , \rightsquigarrow and $\mathbb R$ and better theorem and proof environments.

Formula	Code	Formula	Code	e	
$\sqrt{2}$	\$	\$ √3/8	\$		\$
<u>2</u> 3	\$	\$ <i>x</i> ₁	\$	\$	

 $6 \ge 3 \qquad \$$ $a^2 + b^2 \qquad \$$

Formula	Code		Formula	Cod	de	
$\sqrt{2}$	\$\sqrt	{2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	\$	<i>\$</i>	x_1	\$	\$	
$6 \geq 3$	\$	<i>\$</i>	x_1^2	\$	\$	
$a^2 + b^2$	\$	\$	a^{2+b^2}	\$		\$

Formula	Code	Formula	Code	
$\sqrt{2}$	\$ \sqrt{2} \$	√3/8	\$	\$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	<i>x</i> ₁	\$ \$	
$6 \geq 3$	\$ \$	x_1^2	\$ \$	
$a^2 + b^2$	\$ \$	a^{2+b^2}	\$	<i>\$</i>

Formula	Code	Formula	Code	
$\sqrt{2}$	\$\sqrt{2} \$	$\sqrt[3]{8}$	\$	\$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ \$	
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ \$	
$a^2 + b^2$	\$ \$	a^{2+b^2}	\$	\$



xercises

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Formula	Code	Formula	Coc	le	
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$	\$	
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$	\$	
$a^2 + b^2$	\$ a^2 + b^2 \$	a^{2+b^2}	\$		\$



Formula	Code	Formula	Code
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$ \sqrt[3]{8} \$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ \$
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ \$
$a^2 + b^2$	\$ a^2 + b^2 \$	a^{2+b^2}	\$ \$



Formula	Code	Formula	Code
$\sqrt{2}$	\$\sqrt{2} \$	$\sqrt[3]{8}$	\$\sqrt[3]{8} \$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ x_1 \$
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ \$
$a^2 + b^2$	\$ a^2 + b^2 \$	a^{2+b^2}	\$ \$



Formula	Code	Formula	Code
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$ \sqrt[3]{8} \$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ x_1 \$
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ x_1^2 \$
$a^2 + b^2$	\$ a^2 + b^2 \$	a^{2+b^2}	\$ \$



Exercises

Formula	Code	Formula	Code
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$ \sqrt[3]{8} \$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ x_1 \$
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ x_1^2 \$
$a^{2} + b^{2}$	\$ a^2 + b^2 \$	a^{2+b^2}	\$ a^{2 + b^2} \$



ercises

Formula Code Formula Code $\sqrt{2}$ $\sqrt[3]{8}$ \$ \sqrt{2} \$ \$ \sqrt[3]{8} \$ \$ \frac{2}{3} \$ \$ x_1 \$ x_1 x_1^2 $6 \ge 3$ \$ 6\geq 3 \$ \$ x_1^2 \$ a^{2+b^2} $a^2 + b^2$ \$ a^2 + b^2 \$ $$a^{2} + b^{2} $$

\$ x^22 \$: x²2



Tables · Finishing notes

Basic math

Formula	Code	Formula	Code
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$ \sqrt[3]{8} \$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$ x_1 \$
$6 \geq 3$	\$ 6\geq 3 \$	x_1^2	\$ x_1^2 \$
$a^{2} + b^{2}$	\$ a^2 + b^2 \$	a^{2+b^2}	\$ a^{2 + b^2} \$

$$$x^22 $: x^2 | x^{23}: x^2$$

There are many display math environments. Today we focus on the align environment.

```
The double angle formula can now be rewritten as
\begin{align}
    \cos(2\theta) \&= \cos^2\theta - \sin^2\theta \
                  \&= 2 \cos^2 \theta - 1
\end{align}
```

The double angle formula can now be rewritten as

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta \tag{3}$$

$$=2\cos^2\theta-1\tag{4}$$

```
Here you see a penguin:
\begin{center}
    \includegraphics[height=2cm]{penguin.jpg}
\end{center}
Photo by Sue Flood.
```

Here you see a penguin:



Photo by Sue Flood.

```
You can see a penguin in Figure~\ref{fig:penguin}.
\begin{figure}[h]
    \centering
    \includegraphics[height=2cm]{penguin.jpg}
    \caption{A cute penguin. Photo by Sue Flood.}
   \label{fig:penguin}
end{figure}
```

You can see a penguin in Figure 1.



Figure 1: A cute penguin. Photo by Sue Flood.

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\begin{figure}[h]

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a. magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac. nunc. Praesent eget sem vel leo ultrices hibendum Aenean faucibus Morbi dolor nulla malesuada eu, pulvinar at, mollis ac, nulla, Curabitur auctor semper nulla. Donec varius orci eret risus. Duis nibh mi, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum.. Zie hiervoor Figuur 1.



Figure 1: Voorbeeld van figuurplaatsing.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Do-

nec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nis lhendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibas et magnis dis parturent montes, nascetur ridiculus ms. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turnis. Pellentesque cursus luctus mauris.

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\begin{figure}[t]



Figure 2: Voorbeeld van figuurplaatsing.

Lorem insum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis, Curabitur dictum gravida mauris, Nam arcu libero, nonummy eget, consectetuer id, vulputate a magna. Donec vehicula augue en negue. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turnis erestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna frincilla ultrices. Phasellus en tellus sit amet tortor gravida placerat. Integer sapien est, jaculis in, pretium quis viverra ac nunc Praesent eret sem vel les ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla, Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum. Zie hierwor Figuur 2

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Do-

nec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisi hendreit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turnis. Pellentesque cursus luctus mauris.

4

Figure placement

\begin{figure}[b]

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a. magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac. nunc. Praesent eget sem vel leo ultrices hibendum Aenean faucibus Morbi dolor nulla malesuada eu, pulvinar at, mollis ac, nulla, Curabitur auctor semper nulla. Donec varius orci eret risus. Duis nibb mi, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum.

Zie hiervoor Figuur 3.

Nam dui limila, frincilla a enismod sodales, sollicitudin vel. wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Do-



Figure 3: Voorbeeld van figuurplaatsing.

nec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliguam tincidunt urna. Nulla ullamcorner vestibulum turpis. Pellentesque cursus luctus mauris.

\begin{figure}[p]

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a. magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac. nunc. Praesent eget sem vel leo ultrices hibendum Aenean faucibus Morbi dolor nulla malesuada eu, pulvinar at, mollis ac, nulla, Curabitur auctor semper nulla. Donec varius orci eret risus. Duis nibb mi, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum.

Zie hiervoor Figuur 4.

Nam du lignla, fringilla a, enismod sodales, sollicitudin vel, visia. Morbà nucrlo lorem non pisto. Nam losses libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliguet, tottor sed accumano liberolum, crat lignla aliquet magraa, vitae ornare odio metus a mi. Morbà se orci et nis hendreiri mollis. Superdines ut masso. Cras nec ante. Pellentesque a mulla. Cum sociis natoque pennatibus et magnis dis parturient monets, nascetur ridiculus mus. Aliquam tincidunt urma. Nulla ullamoroper vestibulum turpis. Pellentesque carussi buttes marrie.

7



Figure 4: Voorbeeld van figuurplaatsing

8

Figure placement

Specify one or more of the following characters:

- ▶ h (HERE): Figure can come here.
- t (TOP): Figure can come at the top of the page.
- ▶ b (BOTTOM): Figure can come at the bottom of the page
- ▶ p (PAGE): Figure can come on a special page for figures.
- !: Override internal parameters for floats.
- ► H (HERE): No floating, always here. (\usepackage{float})

Bijvoorbeeld: \begin{figure}[ht]

When working with images: \usepackage{graphicx}

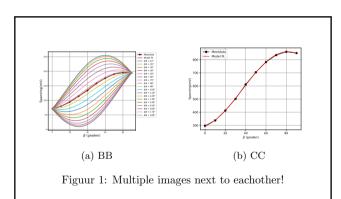
Dimensions

Full linewidth \includegraphics[width=\linewidth] {assets/pinguin.jpg}

- 90% linewidth \includegraphics[width=0.9\linewidth] {assets/pinguin.jpg}
- Width maximally 90% linewidth and height maximally 5 cm \includegraphics[width=0.9\linewidth,height=5cm,keepaspectratio]{assets/pinguin.jpg}

Subfigure

```
\usepackage{subcaption}
\begin{figure}[htbp]
   \centering
   \begin{subfigure}[b]{0.45\textwidth}
       \includegraphics[width=\textwidth]{...}
       \caption{BB}
       \label{fig:dphiExample}
   \end{subfigure}\qquad
   \begin{subfigure}[b]{0.45\textwidth}
       \includegraphics[width=\textwidth]{...}
       \caption{CC}
       \label{fig:fitExample}
   \end{subfigure}
   \caption{Meerdere afbeeldingen naast elkaar!}
\end{figure}
```



Exercises!

Slides and exercises are available at texnicie.nl

Exercises Formulas · Figures Exercises <u>Tables</u> · Finishing notes Slides available at texnicie.nl

Lists

There are three types of lists environments in latex.

enumerate is used for information that has order:

itemize is used for information that does not have order:

description is used for information that has descriptions for each item

Examples					
Enumerated list	Itemized list	Descriptive list			
Biggest cities of	Members of the	Tech companies			
the Netherlands	TeXniCie	recti companies			
1) Amsterdam	Hanneke	Apple Computer company			
2) Rotterdam	Thomas	Facebook Social media com-			
3) The Hague		pany			
4) Utrecht	Vincent	Microsoft Software company			



Lists

As with any environment you start with a \begin command and end with an \end command. In front of each item use the command \item. In case of the descriptive environment add square braces to assign a label to each item: \item[label]

Examples						
Itemized list	Enumerated list	Descriptive list				
<pre>\begin{itemize} \item Hanneke \item Thomas \item Vincent \end{itemize}</pre>	<pre>\begin{enumerate} \item Amsterdam \item Rotterdam \item The Hague \item Utrecht \end{enumerate}</pre>	<pre>\begin{description} \item[Apple] Computer company \item[Facebook] Social media company \item[Microsoft] Software company \end{description}</pre>				

Formulas · Figures Exercises <u>Tables</u> · Finishing notes

Text document

Tables

Tables are made in the **tabular** environment. When making a table you start with \begin{tabular}. Afterwards, an extra parameter must be given that tells Latex how the table will be formatted. For example {1 1 1} tells us that we want a table with three columns that are aligned to the left.

Slides available at texnicie nl

Inside of the tabular environment a new column is made with the &-symbol and a new row with $\setminus \setminus$.

Example				
Name Amsterdam Rotterdam The Hague	Population 903,399 655,468 553,417	\begin{tabular}{1 1 1} Name & Population\\ Amsterdam & 903,399\\ Rotterdam & 655,468\\ The Hague & 553,417\\ \end{tabular}		

 Tables · Finishing notes

Tables

You have now leaned how to make a table, but it would be nice if we could have seperator lines between rows and columns. For the columns you can add a pipe symbol between columns in the paramater. For seperator lines between rows the command \hline is used.

Example

Name	Population
Amsterdam	903,399
Rotterdam	655,468
The Hague	553,417

Tables

Parameter options:

- I Align columns to the left.
- **c** Align columns to the centre.
- r Align columns to the right.

Also note that just like images, tables can have captions and labels

Example Name Population \begin{table} \begin{tabular}{||1 | c||} Amsterdam 903.399 Rotterdam 655.468 \end{tabular} The Hague 553,417 \caption{Biggest cities of NL} \label{table:BiggestCitiesNL} Table 1: Biggest cities of NL \end{table}

Lists and Tables

Finishing notes

The end

Questions?

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