GSNS workshop: LATEX beginners

T_FXniCie

Presenters: Thomas & Jesse





Introduction





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Schedule

- 1 Introduction
- 2 Text document
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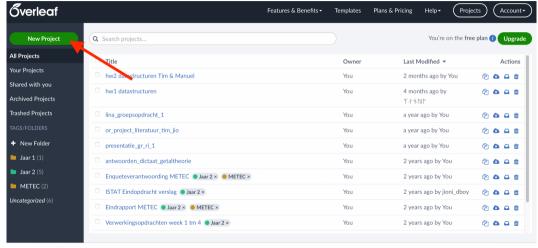




Text document



Overleaf







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```
\documentclass{article}
Command syntax:
\usepackage[uti8] {inputenc}
\uxx{argument1}{argument2}
\title{Exampleoptiquet}argument] {argument1} {argument2}
\author{Vincent Kuhlmann}
\date{February 2023}
           Example:
\begin{documenton{Introduction}
_{\mathtt{maketi}} _{\mathtt{le}} 1) Backslash: we are starting a command
             2) Command name: 'section', place a header in
\section{Introduction ment. Takes 1 argument.
\end{document} Argument 1: the name of the section
```

```
\documentclass{article}
\usepackaEnvironmenttsyntax:
                            \begin{xxx}
\title{Example project}
\author{Vincent Kuhlmann}\end{xxx}
\date{February 2023}
          \begin{center}
\maketitle1) Begin: We are starting the center environment
\section{\langle \langle \text{Introduction} \text{ to be centered on the page}
           3) End: Now go back to normal
\end{document}
```



```
\documentclass{article}
\usepacka Defermment istructure:
Preamble.
\title{Example_project}
Inis is where configuration goes.
\author{Vincent Kuhlmann}
\date{September 2029 cumentclass: specify a template.
                  \usepackage{xxx}: import package 'xxx'.
\begin{document} Other: a.o. setting the title of your
                     document
\maketitle
                 Document body.
\section{Introdisting where the text and other content go.
\end{document}
```



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.

Syntax for text?

```
\begin{document}

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

This is some text, very \textbf{meaningful} text
\end{document}
```

What does this look like in the output?



Syntax for text?

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
                                         Utrecht
\end{document}
```

Special characters

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



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}
Техт	\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}

More with text – Lists

```
These are the ingredients:
\begin{itemize}
                       • Carrots
    \item Carrots
    \begin{enumerate}
                            1. Buv
       \item Buv
                            2. Peel
       \item Peel
       \item Chop
                           3. Chop
    \end{enumerate}
    \item Onions

    Onions

   Lipsum dolor sit amet. Lipsum dolor sit amet.
    \item Potatoes
                                                     Utrecht
\end{itemize}

    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
                 Vincent Kuhlmann
                   1 May 2021
1 Introduction
```

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
                         Vincent Kuhlmann
                            1 May 2021
1 Introduction
```

Section commands

```
AA
\section{AA}
Lorem ipsum dolor
                      sit_amet_Lorem ibsum dolor sit amet, consectetur adipiscing elit.
consectetur adipiscing elit.
                              BB
\section{BB}
\subsection{CC}
                          2.1 CC
\subsubsection{DI}
                          2.1.1
                                DD
\subsection{EE}
                               \mathbf{E}\mathbf{E}
                          2.2
Nullam a risus at
                      arcu
lobortis viverra vel Vel Nullam a risus at arcu lobortis viverra vel volutpat diam.
volutpat diam.
                              \mathbf{FF}
\section{FF}
                                                                    Utrecht
                          3.0.1 GG
\subsubsection{GG
```



Table of contents

	\begin{document}
	\maketitle
)	\tableofcontents
	\section{AA}
	• • •
	\end{document}

Contents

1	$\mathbf{A}\mathbf{A}$																			1
2	вв																			2
	2.1	CC.																		
		2.1.1																		
	2.2	EE .	٠.			•		•	•	•	•	•	•	•	•	•	•	•	•	2
3	\mathbf{FF}																			2
		3.0.1	GC	3																2

$1 \quad AA$

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

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Exercises



Exercises!

Slides and exercises are available at texnicie.nl



Formula





Math

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.

Inline math

Text and symbols between \bigvee and \bigvee 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:

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	:	
$\sqrt{2}$	\$	\$ $\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	\$	\$ x_1	\$	\$	
$6 \ge 3$	\$	\$ x_{1}^{2}	\$	\$	
$a^2 + b^2$	\$	\$ a^{2+b^2}	\$		\$



Formula	Code		Formula	Cod	e	
$\sqrt{2}$	\$2	2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	\$	\$	x_1	\$	\$	
$6 \ge 3$	\$	\$	x_{1}^{2}	\$	\$	
$a^2 + b^2$	<i>\$</i>	\$	a^{2+b^2}	<i>\$</i>		\$



Formula	Code		Formula	Cod	e	
$\sqrt{2}$	\$2	2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	\$ \frac{2}	2}{3} \$	x_1	\$	\$	
$6 \ge 3$	\$	\$	x_{1}^{2}	\$	\$	
$a^2 + b^2$	\$	\$	a^{2+b^2}	\$		\$



Formula	n Code	Formula	Cod	de	
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	<pre>\$ \frac{2}{3} \$</pre>	x_1	\$	<i>\$</i>	
$6 \ge 3$	\$ 6\geq 3 \$	x_{1}^{2}	\$	\$	
$a^2 + b^2$	<i>\$</i>	a^{2+b^2}	\$		\$



Formula	Code	Formula	Code	е	
$\sqrt{2}$	\$ \sqrt{2} \$	$\sqrt[3]{8}$	\$		\$
$\frac{2}{3}$	\$\frac{2}{3} \$	x_1	\$	\$	
$6 \ge 3$	\$ 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	<i>\$</i>
$6 \ge 3$	\$ 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 \$			
$6 \ge 3$	\$ 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 \$	
$6 \ge 3$	\$ 6\geq 3 \$	x_{1}^{2}	\$ 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 \$
$6 \ge 3$	\$ 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} \$



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 \$
$6 \ge 3$	\$ 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} \$



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 \$
$6 \ge 3$	\$ 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} \$

$$x^2 = x^2 = x^2 = x^4 = x^4$$





Formulas Lists and Tables

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 
                  k= 2 \cos^2 \theta - 1
\end{align}
```

The double angle formula can now be rewritten as

$$\cos(2\theta) = \cos^2 \theta - \sin^2 \theta$$

$$= 2\cos^2 \theta - 1$$
(4)





Figures



Figures Lists and Tables License

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

Here you see a penguin:



Photo by Sue Flood.



Figures Lists and Tables License

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

You can see a penguin in Figure 1.

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



Figure placement

\begin{figure}[h]

Lorem insum dolor sit amet, consectetuer adiniscing elit. Ut nurus 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 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, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum.. Zie hiervoor Figure 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 nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pedentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nasectur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

2



Figure placement

\begin{figure}[t]



Figure 2: Voorbeeld van figuurplaatsing.

Lorem insum dolor sit amet, consectetuer adiniscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero nonummy eret consectetuer id vulnutate a. magna. Donec vehicula augue eu neque. 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 fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, jaculis in, pretium quis, viverra ac. nunc. Praesent eget sem vel leo 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, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum Zie hierwoor 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 nisl hendrerit 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 insum dolor sit amet, consectetuer adiniscing elit. Ut nurus 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 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, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum. Zie hierwoor Figuur 3

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-



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 nis lhendreiri mollis. Supencisse ut masaa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur iculus mus. Aliquam tincidunt urna. Nulla ullamoroper vestibulum turnis. Pellentesoue cursus luctus mancor

6



Figure placement

\begin{figure}[p]

elit. Ut nurus 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 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, conque eu, accumsan eleifend, sagittis quis, diam, Duis eget orci sit amet orci dignissim rutrum. Zie hierwoor Figuur 4

Lorem insum dolor sit amet, consectetuer adiniscing

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, sviis, Morbà aucto forem non justo. Nam losse ilibero, pretium at, lobortis vitae, ultricies et, telhus. Dones diquet, totor sod accursans bliebendum, erat lignia aliquet magna, vitae ornare odio metus a mi. Morbà ac orci et nis hendrevir mollis. Suspendiese ut masso. Care nec ante. Pellentesque a milla. Cum sociis natoque penantibas et magnis da parturient montes, nascetur ridiculas mus. Aliquam tincidunt urna. Nulla ullamoropre vestibulum turpis. Pellentesque cursus buctus marrix.

-



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})

For example: \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}



Subfigure

```
\usepackage{subcaption}
. . .

    Mestdata

                                                                                                  Model fit
\begin{figure}[htbp]
    \centering
                                                                                20 - 50°
20 - 50°
20 - 70°
    \begin{subfigure}[b]{0.45\textwidth}
                                                                                             600
         \includegraphics[width=\textwidth] {.
         \caption{BB}
         \label{fig:dphiExample}
                                                                               99 - 115,
99 - 115,
    \end{subfigure}\qquad
    \begin{subfigure}[b]{0.45\textwidth}
                                                                                                           40
Ø (graden)
                                                                g (graden)
         \includegraphics[width=\textwidth] {...,
         \caption{CC}
                                                               (a) BB
                                                                                                        (b) CC
         \label{fig:fitExample}
    \end{subfigure}
    \caption{Meerdere afbeeldingen naast elkaar!}
                                                         Figuur 1: Multiple images next to eachother!
\end{figure}
                                                                                                                  University
```

i iguics

Exercises



Exercises!

Slides and exercises are available at texnicie.nl



Lists and Tables





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		
1) Amsterdam	Jesse	Apple Computer company	
2) Rotterdam	■ Thomas	Facebook Social media com-	
3) The Hague	Vincent	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 Jesse \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>	

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.

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

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

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

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} Table 1: Biggest cities of NL \label{table:BiggestCitiesNL} \end{table}

Conclusion





Finishing notes



The end

Questions?

Stuck? Mail us at info@texnicie.nl

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