

Texmaker

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1 Basic

```
[*]documentclass
\documentclass[10pt,a4paper]{article}
\documentclass[10pt,a4paper]{report}
\documentclass[10pt,a4paper]{letter}
\documentclass[10pt,a4paper]{book}
\documentclass[squeeze,t]{beamer}
```

```
[*]packages
\usepackage[german]{babel}
\usepackage[latin1]{inputenc}
\usepackage[T1]{fontenc}
\usetheme{Warsaw}
\usepackage{csquotes}
\usepackage{graphicx}
\usepackage{amsmath}
\usepackage{amsfonts}
\usepackage{amssymb}
\usepackage{amsthm}
\usepackage{url}
\usepackage{algorithm}
\usepackage{algorithmic}
\usepackage{listings}
\usepackage{color}
\usepackage{ifthen}
\usepackage{forloop}
\usepackage{color}
\usepackage{cite}
\usepackage{BeamerColor}
\usepackage{float}
```

2 Text

```
[*]textStyle
\emph{text}
\underline{text}
\textbf{text}
\textit{text}
\textsf{text}
\texttt{text}
\underline{text}
\textbf{text}
\textit{text}
\textsf{text}
\texttt{text}
\tiny 1
\scriptsize 2
\footnotesize 3
\small 4
\normalsize 5
\large 6
\Large 7
\LARGE 8
\huge 9
\Huge 10
\begin{flushleft}links aliniertend{flushleft}
\begin{center}zentriertend{center}
blockquote[] {Test ..}
\begin{quote}textend{quote}
\begin{quotation}textend{quotation}

[*]\usepackage{color}
\definecolor{blue}{rgb}{0,0,0.5}color{blue}
```

3 graphic

```
[*]\usepackage{graphicx}
\begin{figure}[h]
\centering
\includegraphics[scale=1]{image.png}
\includegraphics[width=2cm , bb= 0 0 100 250]{image.png}
\caption
\end{figure}
```

4 enumerate/table

```
[*]Aufzählung
\begin{itemize}
\item Punkt 1
\item[2.] Punkt 2
\end{itemize}
\begin{enumerate}
\item Punkt 1
\item[2.] Punkt 2
\end{enumerate}
\begin{description}
\item Punkt 1
\item[2.] Punkt 2
\end{description}
\end{document}
```

```
[*]Tabelle
\begin{tabular}{|c|p{2cm}|}
\hline
\text & text
\hline
\end{tabular}
```

5 Mathe

```
\usepackage{amsmath}
\usepackage{amsfonts}
\usepackage{amssymb}

$$\left| \sum_{i=1}^n x_i \right|^p \sim \left( \sum_{i=1}^n x_i^p \right)^{\frac{1}{p}}$$


$$\frac{\sum_{i=1}^n a_i}{\prod_{i=1}^n a_i}$$

\begin{equation}
\sigma = \sqrt[9]{\frac{1}{n-1}} \underbrace{x_4}_{x_5}
\end{equation}
\begin{equation}
\int_a^b x
\end{equation}

$$\left| \sum_{i=1}^n x_i \right|^p \sim \left( \sum_{i=1}^n x_i^p \right)^{\frac{1}{p}}$$

\addtocounter{footnote}{-1}
\footnotetext{1}
\stepcounter{footnote}
\footnotetext{2}
```

6 Algorithmen

```
\usepackage{algorithm}
\usepackage{algorithmic}
\begin{algorithm}
\caption{Algorithm 1 - Linear}
\begin{algorithmic}
\STATE
\STATE maxsum = A[1] max? = A[1]
\FOR{i = 1, i groesser n, i ++ do}
\IF{(max?+A[i+1])kleiner(A[i+1])}
\STATE do some processing
\ELSE
\STATE max? = max?+A[i+1]
\ENDIF
\IF{max?kleiner max}
\STATE max=max?
\ENDIF
\ENDFOR
\STATE
\end{algorithmic}
\end{algorithm}
```

```
[*]\usepackage{listings}
\lstset{language=java,basicstyle=small ,numbers=left ,numberstyle=tinycolor{red},
backgroundcolor={color{red}},label{\lst:label},caption=testcaption}
\begin{figure}[h]
\centering
\begin{lstlisting}
import javax.swing.JDialog;JDialog dialog=new Dialog();dialog.setTitle("title");
dialog.setSize(300,400);dialog.add();dialog.setVisible(true);
[*]end{lstlisting}
\caption{listing}
[*]label{listing:label}
\end{figure}
\ref{listing:label}
```

7 Definition/Macro

```
[*]Definition
\deffoobar#1#{framebox[#1]}
\foobar 47pt {hello}

[*]Makros
\newcommand{test}{Ich bin ein Testsatz!}
\newcommand{wichtig}[1]{\textbf{#1}}
\newcommand{farbig}[2][red]{\textcolor{#1}{#2}}
\newenvironment{DialogB}[1]{\environment text|#1:}
wichtig{text}
\begin{DialogB} text \end{DialogB}

[*]verb
\begin{verb}
for i:=maxint to 0 do
begin
{ do nothing }
end;Write('Case insensitive ');Write('Pascal keywords. ');
\end{verb}
```