

## 124 Latex =====

### 124.0 Textgestaltung -----

Hier wird erklärt, wie du Texte formatierst.

Beachte

kleiner- und größergeschriebenen Text,  
Zeilenumbrüche  
Leerzeilen  
Farben

Der Lesefluss innerhalb eines Artikels sollte nicht durch hervorgehobene Textelemente gestört werden.

#### 124.0.1 Reference

.....

[https://de.wikipedia.org/wiki/Hilfe:Textgestaltung#Formatierungen,\\_die\\_nicht\\_in\\_Wikipedi](https://de.wikipedia.org/wiki/Hilfe:Textgestaltung#Formatierungen,_die_nicht_in_Wikipedi)

#### 124.0.2 Example

.....

xxx

### 124.1 Piktogramm -----

#### 124.1.1 Definition

.....

Ein Piktogramm ist ein Symbol, das einen Hinweis durch ein einfaches Bild vermittelt.  
Siehe: <https://de.wikipedia.org/wiki/Piktogramm>.

#### 124.1.2 Referenz

.....

<https://de.answacode.com/tex/441917/gibt-es-eine-einfache-moglichkeit-strichmannchen-in-j>  
<https://ftp.rrze.uni-erlangen.de/ctan/graphics/pgf/contrib/tikzsymbols/tikzsymbols.pdf>

#### 124.1.3 Strichmännchen

.....

The package provides various emoticons, cooking symbols and trees:

```
\usepackage{tikzsymbols}
```

```
\begin{document}
```

```

\begin{tikzpicture}
\Strichmaxerl[3]
\end{tikzpicture}
\end{document}

```

#### 124.1.4 Emoticon

```

.....
\dSmiley [2][yellow]

```

#### 124.2 Latex Color

-----

The color package also supports decimal values in the RGB color model that accepts integer values in the interval [0,255].

##### 124.2.1 Inet address

```

.....
https://latexcolor.com/

```

##### 124.2.2 Definition

```

.....
\usepackage[dvipsnames]{xcolor}           % Using the color package

\definecolor{amethyst}{rgb}{0.6, 0.4, 0.8}

```

##### 124.2.3 Example

```

.....
{\color{red} Erziehung}

```

#### 124.3 Zeichnen mit Tikz

##### 124.3.1 Kurs

```

.....
Wir wollen in diesem Vortrag aufzeigen, wie simple Zeichnungen, aber auch
Graphen, Bäume und Diagramme durch wenige einfache Befehle direkt aus einem
LaTeX-Dokument heraus gesetzt werden können:
https://www.mlte.de/latex/tikz-talk/

```

##### 124.3.2 Basic Drawing

```

.....
In this first post we'll start with the basics, showing how to draw simple
shapes, with subsequent posts introducing some of the interesting things you
can do using the tikz package:
https://de.overleaf.com/learn/latex/LaTeX\_Graphics\_using\_TikZ%3A\_A\_Tutorial\_for\_Beginners

```

### 124.3.3 Chemie

.....

[https://www.latex-kurs.de/kurse/WS2017/FK2/Druck\\_FK2\\_Tikz.pdf](https://www.latex-kurs.de/kurse/WS2017/FK2/Druck_FK2_Tikz.pdf)

### 124.3.4 Examples

.....

<https://texample.net/tikz/examples/>

### 124.3.5 Arrows

.....

This post is about exploring TikZ arrows in LaTeX provided by the arrows.meta library. We will learn how to change the arrow tip (head), the arrow thickness, the arrow color and add arrow label.

<https://latexdraw.com/exploring-tikz-arrows/>

### 124.3.6 Rectangular shape with a border

.....

Could anyone please tell me how do I draw a rectangular shape with a black border around

<https://tex.stackexchange.com/questions/105876/drawing-a-rectangular-shape-with-a-border>

### 124.3.7 Stacked coloured underlines

.....

Stacking of objects:

<https://ftp.agdsn.de/pub/mirrors/latex/dante/macros/latex/contrib/stackengine/stackengine>  
`\usepackage{stackengine}`

Overlapping highlighting:

<https://tex.stackexchange.com/questions/169189/highlighting-text-through-stacked-colored>

## 124.4 Counter

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### 124.4.1 Similar Problem

.....

I would like to create a custom counter:

<https://tex.stackexchange.com/questions/326258/create-custom-counter>

### 124.4.2 Transfer

.....

% Subparagraph counter.

`\newcounter{subParagraphC}`

`\renewcommand{\thesubParagraphC}{\bf\arabic{subParagraphC}.}`

```
% Begin of a subparagraph
\newcommand\subParagraph[1] {%
  \stepcounter{subParagraphC}
  \bf{\theparagraph}\thesubParagraphC \hspace 6pt \rm #1
}

% Description counter.
\newcommand\desccount{%
  \stepcounter{subParagraphC}\theparagraph\thesubParagraphC
}
```

#### 124.5 Command with two arguments

-----

see

[https://www.tutorialspoint.com/tex\\_commands/newcommand.htm](https://www.tutorialspoint.com/tex_commands/newcommand.htm)

\newcommand - Used to create your own commands (control sequences, macros, definitions).

#### 124.2 Synopsis

.....

```
{ \newcommand\myCommandName
  [ <optional # of arguments, from 1 to 9> ]
  { <replacement text> } }
```

#### 124.2 Description

.....

\newcommand command is used for defining your own commands ...

#### 124.5 Example

.....

```
\documentclass{article}
\usepackage{soul} % Provides letter spacing, underlining, striking out, etc.
\newcommand{\xx}[2]{ arg1: ,,\st{#1}''; args: ,,{\large #2}'' }
\begin{document}
test: \xx{first}{second}
\end{document}
```

#### 124.6 TikZ: adding text

-----

##### 124.6.1 Reference

.....

[https://tex.stackexchange.com/questions/29233/tikz-adding-text#comment57371\\_29233](https://tex.stackexchange.com/questions/29233/tikz-adding-text#comment57371_29233)

#### 124.6.2 Description

.....

In TikZ you can use nodes to place almost anything (in particular, text) in the position you want.

#### 124.6.3 Example

.....

```
\documentclass{article}
\usepackage{tikz}
\begin{document}
\tikz {\node[draw,align=left] at (3,0) {x \\\y \\\ z};}
\end{document}
```

#### 124.7 TikZ: memoving bounding box of text node

-----

##### 124.7.1 Reference

.....

<https://tex.stackexchange.com/questions/170645/removing-bounding-box-of-text-node-tikz>

##### 124.7.2 Description

.....

The draw key in the options list for the node tells TikZ to draw the node shape around the node. And the default node shape is rectangle.

Remove the draw key from the node options to not draw the node.

##### 124.7.3 Example

.....

```
\documentclass{article}
\usepackage{tikz}
\begin{document}
\begin{tikzpicture}
\draw (0, 1.3) node[below] {$B$} -- (3, 1.3) node[below] {$C$} --
(1.5, 4.3) node[above] {$A$} -- cycle;
\node[text width=3cm] at (4.5,4)
{some text spanning three lines with automatic line breaks};
\end{tikzpicture}
\end{document}
```

#### 124.8 TikZ: tuturial

-----

### 124.8.1 Reference

.....

[https://www.mit.edu/afs.new/sipb/project/latex/tutorial\\_latex\\_tikz.pdf](https://www.mit.edu/afs.new/sipb/project/latex/tutorial_latex_tikz.pdf)

<https://ctan.org/pkg/pgf>

### 124.8.2 Description

.....

What ist TikZ?

PGF: portable graphics format

Allows creation of vector graphic schemes

### 124.8.3 Drawing a path

.....

```
\documentclass{article}
```

```
\usepackage{tikz}
```

```
\begin{document}
```

```
\begin{tikzpicture}
```

```
  \draw[help lines, thick] (0,0) grid (4,4);
```

```
  \draw[->, thick, red] (0,0) -- (1,2) -| (3,4) -- (1,1);
```

```
\end{tikzpicture}
```

```
\end{document}
```

### 124.9 TikZ: style

-----

PGF is a macro package for creating graphics:

create PostScript and PDF graphics in TEX.

### 124.9.1 Reference

.....

<https://de.wikipedia.org/wiki/PGF/TikZ>

<https://ctan.org/pkg/pgf>

<https://tex.stackexchange.com/questions/34719/tikz-style-attribute-for-adding-default-no>

[https://www.overleaf.com/learn/latex/LaTeX\\_Graphics\\_using\\_TikZ%3A\\_A\\_Tutorial\\_for\\_Beginners](https://www.overleaf.com/learn/latex/LaTeX_Graphics_using_TikZ%3A_A_Tutorial_for_Beginners)

### 124.9.2 Description

.....

"What is TikZ?" Basically, it just defines a number of TEX commands that draw graphics.

see

<https://ctan.mirror.norbert-ruehl.de/graphics/pgf/base/doc/pgfmanual.pdf>

### 124.9.3 Example

.....

```
\documentclass{article}
```

```

\usepackage{tikz}
\begin{document}
\begin{tikzpicture}[%
  stuff/.style={%
    draw,
    node contents={A}} ]
\node at (0,0) [stuff];
\node at (0,1) [stuff, node contents={B}];
\end{tikzpicture}
\end{document}

```

## 124.9 Emacs: Schriftgröße

---

### 124.9.1 Reference

.....

<https://de.answacode.com/stackoverflow/5533110/emacs-vergrossernverkleinern>

### 124.9.2 Beschreibung

.....

Nach einer Kombination (C-x C++ oder C-x C--), aufeinanderfolgend + oder - erhöhen oder verringern Sie den Textmaßstab, ohne C-x C- erneut zu tippen.

## 124.10 TikZ: filled rectangle without border

---

The border of the rectangle is drawn because you are using the `\draw` command, which, by definition, draws the specified path (here the rectangle). The fact that you are adding the option `fill=orange` just tells TikZ that in addition it should fill the path with orange. Replacing `\draw` with `\fill` will do what you are expecting.

### 124.10.1 Reference

.....

<https://tex.stackexchange.com/questions/82530/how-to-draw-a-filled-rectangle-without-a-b>

### 124.10.2 Example

.....

```

\documentclass{article}
\usepackage{tikz}
\begin{document}
\tikz \fill [orange] (0.1,0.1) rectangle (1,1);
\end{document}

```

## 124.11 Euro symbol

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### 124.11.1 Reference

.....

<https://tex.stackexchange.com/questions/9866/latest-advice-on-the-euro-symbol>

### 124.11.2 Example

.....

```
\documentclass{article}
\usepackage{eurosym}
\begin{document}
10€ and 10\euro
\let\texteuro\euro
10€ and 10\euro
\end{document}
```

## 124.12 Tikz: draw a vertical

-----

### 124.12.1 Reference

.....

<https://tex.stackexchange.com/questions/402454/tikz-draw-a-vertical-line-to-a-straight-l>

### 124.12.2 Example

.....

```
\documentclass{article}
\usepackage{tikz}
\begin{document}
\tikz { \draw [line width=1pt, -] (0, 0) -- (0, 1); }
\end{document}
```

## 124.13 Minipage

-----

Minipage is an environment to produce parboxes in LaTeX.

### 124.13.1 Reference

.....

<https://latex-tutorial.com/minipage-latex/>

### 124.13.2 Example

.....

```
\documentclass{article}
\begin{document}
```



```

\begin{minipage}{6cm}
  This text is processed in paragraph mode, and then becomes an indivisible
  \TeX{} box.
\end{minipage}
\end{document}

```

#### 124.14 Nahsinne, Fernsinne

---

Nahsinne, Sinnesorgane der Haut und der Geschmackssinn im Gegensatz zu den Fernsinnen (Sehen, Hören und Geruch) (Sinne).

Weitere Sinne beim Menschen

Die moderne Sinnesphysiologie kennt für den Menschen klassischerweise noch vier weitere Sinne:

Temperatursinn, Thermorezeption  
 Schmerzempfindung, Nozizeption  
 Vestibulärer Sinn, Gleichgewichtssinn  
 Körperempfindung, Tiefensensibilität.

Dazu gehören:

Lage- und Bewegungssinn, Propriozeption  
 Organsinne, Viszero- oder Enterozeption (unter anderem empfunden als Hunger, Durst oder Harndrang)

##### 124.15.1 Reference

.....  
<https://www.spektrum.de/lexikon/psychologie/nahsinne/10283>  
[https://de.wikipedia.org/wiki/Sinn\\_\(Wahrnehmung\)](https://de.wikipedia.org/wiki/Sinn_(Wahrnehmung))

#### 124.16 Römische Zahlen

---

Schreibweise mit Vinculum

Ein Vinculum (auch Titulus) ist ein Querstrich über den Ziffern.

##### 124.16.1 Reference

.....  
<https://golatex.de/viewtopic.php?t=3886>  
[https://de.wikipedia.org/wiki/R%C3%B6mische\\_Zahlschrift](https://de.wikipedia.org/wiki/R%C3%B6mische_Zahlschrift)

##### 124.16.2 Example

.....  
`\documentclass{article}`

```

\usepackage{amsmath}
\newcommand{\rom}[1]{\underline{\overline{\text{#1}}}}
\begin{document}
In diesem Text werden die zwei r"omischen Zahlen \rom{XII} und \rom{IV}
dargestellt.
\end{document}

```

## 124.17 Auflistung mit Punkten

---

### 124.17.1 Reference

.....  
<https://latex-kurs.blogspot.com/2012/12/latex-aufzahlungen.html>

### 124.17.2 Example

.....  
\documentclass{article}  
\begin{document}  
\begin{itemize}  
\item 1  
\item 2  
\end{itemize}  
\end{document}

## 124.18 Space between the itemize "items"

---

### 124.18.1 Reference

.....  
<https://tex.stackexchange.com/questions/12373/how-to-change-the-space-between-the-itemize>

### 124.18.2 Example

.....  
\documentclass{article}  
\begin{document}  
X  
\begin{itemize}  
\setlength\itemsep{0em}  
\item 1  
\end{itemize}  
\end{document}

\documentclass{article}  
\usepackage{enumitem}

```

\begin{document}
\noindent No spacing between this line and the item list below it.
\begin{itemize}[noitemsep,topsep=0pt]
  \setlength\itemsep{0em}
  \item Item 1
  \item Item 2
  \item Item 3
\end{itemize}
\end{document}

```

## 124.19 Horizontal spacing

---

### 124.19.1 Reference

.....

<https://tex.stackexchange.com/questions/74353/what-commands-are-there-for-horizontal-spacing>

### 124.19.2 Example

.....

## 124.20 Underlining with dash-dotted line

---

### 124.20.1 Reference

.....

<https://tex.stackexchange.com/questions/327972/underlining-with-dash-dotted-line>

<https://ftp.gwdg.de/pub/ctan/graphics/pgf/base/doc/pgfmanual.pdf>, p. 166

### 124.20.2 Example

.....

```

\documentclass{article}
\usepackage{tikz}
\newcommand{\mydash}[1]{%
  \tikz[baseline=(dashed.base)]{
    \node[inner sep=1pt, outer sep=0pt] (dashed) {#1};
    \draw[dashed, line width=1.5pt, color=magenta]
      ([yshift=-2pt]dashed.south west) -- ([yshift=-2pt]dashed.south east);
  }%
}%
\begin{document}
\mydash{dashed line}
\end{document}

```