

Nonsense Knowledge 2024

---

# Lightning Nonsense with L<sup>A</sup>T<sub>E</sub>X

Hedwig Amberg

July 2, 2024

- what-you-see-is-not-what-you-get

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly
- initially how all digital text editing worked

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly
- initially how all digital text editing worked
- not to be confused with:

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly
- initially how all digital text editing worked
- not to be confused with:
  - WYSINWY<sup>W</sup> what-you-see-is-not-what-you-want (Microsoft Word)

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly
- initially how all digital text editing worked
- not to be confused with:
  - WYSINWYW what-you-see-is-not-what-you-want (Microsoft Word)
  - WYSINWYC what-you-see-is-not-what-you-copy (web exploit)

- what-you-see-is-not-what-you-get
- display formatting, fonts etc. in control sequences (like html) instead of directly
- initially how all digital text editing worked
- not to be confused with:
  - WYSINWYW what-you-see-is-not-what-you-want (Microsoft Word)
  - WYSINWYC what-you-see-is-not-what-you-copy (web exploit)
  - WYWINWYG what-you-want-is-not-what-you-get (general life experience)



```
1 \documentclass{minimal}
2 \begin{document}
3 Hello World!
4 % this is a comment and will not be printed
5 \end{document}
```



# old school: write letters

```
1 \documentclass[a4paper]{letter}
2 \usepackage{ngerman}
3 \usepackage{graphicx}
4 \begin{document}
5 \address{IONOS SE \\ Hinterm Hauptbahnhof 5 \\ 76137 Karlsruhe}
6 \begin{letter}{ESOC \\ Robert-Bosch-StraSse 5 \\ 64293 Darmstadt}
7 \signature{\includegraphics[width=.5\textwidth]{demos/loriot.jpg}}
8 \opening{Sehr geehrte Damen, sehr geehrte Herren,}
9
10 Ich bin tief beeindruckt von der Tatsache, dass es einer Hündin gelungen
11 Schon bei flüchtigem Nachdenken sind mir verschiedene Persönlichkeiten
12
13 \closing{Hochachtungsvoll,}
14 \end{letter}
15 \end{document}
```

```

1 \documentclass[margin=6]{standalone}
2 \usepackage{mathtools}
3 \begin{document}
4 \newcommand{\twopibyn}{\frac{2\pi}{n}}
5 \newcommand{\sqrooteddiv}[1]{\frac{\sqrt{#1^2}}{#1}}
6 % special thanks to Idiotinium and Matt Parker
7 % https://www.desmos.com/calculator/svfvcsygfn?lang=de
8 $
9 \sqrt{x^2 + y^2} - \cfrac{\sin(\pi \cdot \frac{n-2}{2n})}{\sin(\pi \cdot \frac{n-2}{2n})}
10 $\displaystyle \dfrac{\twopibyn \cdot \arctan\left(\tan\left(\pi \cdot \frac{n-2}{2n}\right)\right)}{\twopibyn}
11 \raisebox{-1.5ex}{$\displaystyle + \cfrac{\twopibyn}{2}$}\right) \backslash
12 $
13 \end{document}

```



```
1 \documentclass[a4paper,12pt]{article}
2 \usepackage[margin=0mm]{geometry}
3 \usepackage[abs]{overpic}
4 \usepackage{xcolor}
5 \begin{document}
6 \begin{overpic}[page=1]{demos/Form.pdf}
7   \color{red}
8   \put(71,475){\hspace{1.4cm}1 \, 2\, 3 \, 4\, 5 \, 6\, 7 \, 8\, 9 \,}
9   \put(71,452){\hspace{1.2cm}John A. \hspace{6.4cm} Zoidberg}
10  \put(71,427){X}
11  \put(71,416){\hspace{1.9cm}01.04.27}
12  \put(71,295){Empire State Trl, -, NY 10019, New York}
13  \put(71,267){zoidberg@mums-mail.com \hspace{6cm} 9821-2157-}
14 \end{overpic}
15 \end{document}
```

```
1 \documentclass[a4paper,12pt]{article}
2 \usepackage[margin=0mm]{geometry}
3 \usepackage[abs]{overpic}
4 \usepackage{hyperref}
5 \begin{document}
6 \begin{Form}
7 \begin{overpic}[page=1]{demos/Form.pdf}
8   \put(71,475){\hspace{1.4cm}\TextField[name=lanr]{} \hspace{2cm}}
9   \put(71,452){\hspace{1.2cm}\TextField[name=name]{} \hspace{2cm}}
10  \put(71,427){\CheckBox[name=einzel]{} }
11  \put(71,416){\hspace{1.9cm}\TextField[name=seit]{} }
12  \put(71,295){\TextField[name=anschrift]{} }
13  \put(71,267){\TextField[name=email]{} \hspace{6cm} \TextField}
14 \end{overpic}
15 \end{Form}
16 \end{document}
```

## bonus: replace excel

```
1 \documentclass[margin=6]{standalone}
2 \usepackage[xfp]{spreadtab}
3 \usepackage{wasysym}
4 \ExplSyntaxOn \sys_gset_rand_seed:n {13} \ExplSyntaxOff
5 \begin{document}
6 \begin{spreadtab}{{\tabular}{|c|c|c|c|c|}}
7 \hline
8 @index & @$x$ (random) & @$x^2$ & @$x!$ \\ \hline
9 1 & & & \\
10 \STcopy{v}{randint(10)} & \STcopy{v}{[-1,0]*[-1,0]} & & \\
11 \STcopy{v}{[0,-1]+1} & & & \\
12 & & & \\
13 & & & \\
14 \end{spreadtab}
15 \end{document}
```

## bonus: make a meme

```
1 \documentclass{standalone}
2 \usepackage{tikz}
3 \usepackage{contour}
4 \usepackage{fontspec}
5 \setmainfont{Impact}
6 \contourlength{3pt}
7 \begin{document}
8 \begin{tikzpicture}[inner sep=0pt,outer sep=0pt]
9     \node (picture) {\includegraphics{demos/Malicious_Advice_Mal
10     \draw (picture.south) node[anchor=south,inner ysep=25pt] {\cor
11 \end{tikzpicture}
12 \end{document}
```



# if you're still interested

Overleaf online TeX-editor: <https://de.overleaf.com>

TeXstudio (offline editor): <https://www.texstudio.org/>

More resources that can come in handy:

- <https://ctan.org>
- <https://tug.ctan.org/info/symbols/comprehensive/symbols-a4.pdf>
- <https://detexify.kirelabs.org/classify.html>
- <https://www.latextemplates.com/>