

TeX Day

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- 1 HTML-Output with `htlatex`
- 2 Slides with the `beamer` class
- 3 Some Tips
- 4 Lottery



HTML-Output with `htlatex`

- Not only create documents, but also HTML websites
- Additionally include the `tex4ht` package
- Introduces only a few new commands:
 - `\HCode{...}` Directly put HTML-code
 - `\HPage{anchor}... \EndHPage{}` Internal link
 - `\Link[]{}{}... \EndLink` External link
 - `\ifHtml... \else... \fi` Conditional output
- Comes with own `htlatex` binary and config file
- Invokes $\text{T}_\text{E}\text{X}$ system three times in background

`http://web.student.tuwien.ac.at/~e0525580`

(Download the L^AT_EX sources of the website there)

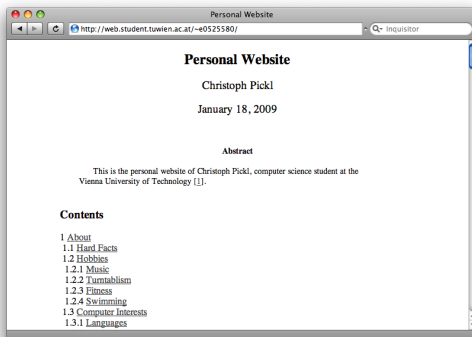


Figure: Screenshot of my personal student website

- Special file with `.cfg` extension
- Pass as argument to `htlatex` or to `usepackage`
- `\Preamble{html}\begin{document}\EndPreamble`
- Things you can do with it:
 - Create custom CSS definitions (`\Css` command)
 - Pre-/Postprocess HTML tags with `@`-sign

Listing 1: Sample htlatex config file

```
1 \Preamble{xhtml}
2 \begin{document}
3
4 \Configure{@HEAD}{\HCode{
5   <meta name="author" content="Christoph Pickl" />
6   \Hnewline}}
7 % you MUST escape the #-sign!!!
8 \Css{body { background-color:\#DEDEDE; }}
9
10 \EndPreamble
```

! Illegal parameter number in definition of \:tempa.

- `$ htlatex index.tex "myhtconfig"`
- For instruction on how to use htlatex lookup man entry:
<http://www.linuxcertif.com/man/1/htlatex/>
- Maybe you want to automate that process via ...
 - creating your own build script and
 - additionally create your own deployment script

Listing 2: Automate build and deploy process

```
1 #!/bin/bash
2 BASE="/path/to/htlatex/output"
3
4 cd $BASE
5 htlatex index.tex "myhtconfig"
6
7 COPY_FILES=('index.html' 'index.css')
8 BATCH="$BASE/sftp_batch.txt"
9 echo "cd public_html" >> $BATCH
10 FILE_CNT=${#COPY_FILES[@]}
11 for (( i=0 ; i<$FILE_CNT ; i++)); do
12     FILE=${COPY_FILES[$i]}
13     echo "put $BASE/$FILE $FILE" >> $BATCH
14 done
15 sftp e1234567@web.student.tuwien.ac.at - < ${BATCH}
```



Slides with the beamer class

- Not only create documents, but also slides
 - **Disadvantage:** You have to know \LaTeX , in order to use it
 - **Advantage:** If you know \LaTeX , you can use that knowledge
- Got some **dependencies**
 - `pgf.sty` (1.10.cvs) and `xcolor.sty` (2.00)
- Some packages are already included by beamer
 - `color`, `xcolor`, `hyperref`, ...

- 1 Use any text editor of your choice
- 2 Can be properly version controlled (*diff of *.ppt?*)
- 3 Enables collaborative way of working together

Listing 3: Simple titlepage with beamer

```
1 \documentclass{beamer}
2
3 \title{TeX Day}
4 \author{Christoph Pickl}
5 \date{February 23, 2009}
6
7 \begin{document}
8 \frame{ % create new slide
9   \titlepage % print titlepage content
10 }
11 \end{document}
```

- New documentclass `beamer`
- New command (environment) `\frame` to create a slide
- New command `\frametitle`
- ...

- Define sequence on items: $\langle 1 - \rangle$
- New command `\pause`
- ...

Listing 4: beamer sample of appearing item bullets

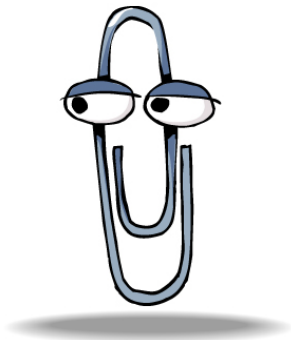
```
1 \begin{itemize}
2   \item<1-> First item
3   \item<2-> Second item will appear on next slide
4 \end{itemize}
```

- Complex Animations
- Embedding Audio and Video
- ...

Learn more about beamer at the **DANTE TeX Day**.

This Wednesday, February 25th at 09:00 am.

<http://cms.dante.de/dante2009/index/programm.html>



Some Tips

`fancyhdr` For customizing header and footer

`lastpage` Unfortunately this is not supported by default

`listings` Include external sourcecode files

`supertable` If tables get too big, you'll need it

`fp` Calculating within \LaTeX (e.g. for time sheets)

- If some team members do not know T_EX yet
- Separate data from layout (like HTML vs CSS)
- Easily exchange appearance in single point
- Write reusable components (sounds familiar?)



Lottery

Einführung in das L^AT_EX-Textsatzsystem



www.rrzn.uni-hannover.de/buch.html?&titel=latex

Thanks to  for the sponsoring

- Get a piece of paper and a pen
- Write down your name and matrikelnummer
- You have to answer following two questions:
 - 1 What's the last name of the publisher of $\text{T}_{\text{E}}\text{X}$?
 - 2 What's the name of the environment for an **unordered list**?

Answer 1 Knuth

Answer 2 `itemize`

[Wiki Article](http://jsug.fsinf.at/wiki/Meeting_11) `http://jsug.fsinf.at/wiki/Meeting_11`

[htlatex Tutorial](http://www.slac.stanford.edu/comp/unix/package/tex/tex4ht/mn2.html) `http://www.slac.stanford.edu/comp/
unix/package/tex/tex4ht/mn2.html`

[beamer Useruide](http://www.ctan.org/tex-archive/macros/latex/contrib/beamer/doc/beameruserguide.pdf) `http:
//www.ctan.org/tex-archive/macros/latex/
contrib/beamer/doc/beameruserguide.pdf`

[beamer Examples](#) Solutions folder shipped with beamer