

Introduction to L^AT_EX Part III

for MST-Students

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1 Outline

2 packages

- tabularx
- booktabs
- (x)color
- Pdfpages
 - n auf 1
- Hyperref
 - Links & Co.

3 presentation

- beamer class
- blocs
- split screen
- Pictures
- joining picture and lists
- pictures which need more space

- Basic
- Scientific Writing
- Usepackages, Presentation etc.

```

\begin{tabularx}{\linewidth}{lX}
column 1 & column 2\\
\hline
A & Wieder mal viel Text, der wie immer keinen
besonderen Sinn erf"ullt,
sondern einfach nur Platz f"ullen soll.\\
B & Der Text hat genau so viel Sinn wie der obige Text. \\
\end{tabularx}

```

column 1	column 2
A	Wieder mal viel Text, der wie immer keinen besonderen Sinn erfüllt, sondern einfach nur Platz füllen soll.
B	Der Text hat genau so viel Sinn wie der obige Text.

```
\begin{tabular}{@{}l|r@{}} \toprule
\multicolumn{2}{c}{Study} \\ \cmidrule(r){1-2}
Subject & Duration & Income (\$) \\ \midrule
Info & 2 & 12.75 \\
MST & 6 & 8.20 \\
VWL & 14 & 10.00 \\ \bottomrule
\end{tabular}
```

Study		
Subject	Duration	Income (\$)
Info	2	12.75
MST	6	8.20
VWL	14	10.00

package

xcolor

Default colors

red, green, blue, cyan, magenta, yellow, black, white, darkgray, gray,
lightgray

extension

```
\definecolor{color name}{color Set}{value,value,value}  
\definecolor{AliceBlue}{rgb}{0.94,0.97,1}
```

application

pages, font, frame or fields

package

pdfpages

application

including of pdf file(s)

options

final, draft and enable-survey

implementation

```
\usepackage{pdfpages}
```

all pages

```
\includepdf [pages=-] {file}
```

all pages reverse order

```
\includepdf [pages=last-1] {file}
```

from ... to ...

```
\includepdf [pages={2-7}] {file}
```


particular page(s)

```
\includepdf [pages={2,4,6}] {file}
```

empty page

```
\includepdf [pages={2, {}, 4}] {file}
```

mixture

```
\includepdf [pages={2-7, 2, 4, {}, 6}] {file}
```

nup and alignment

nup

`nup=<Number Columns>x<Number Rows>`

2 on 1

```
\includepdf[pages={from to}, nup = 1x2]{file}
```

```
\includepdf[pages={from to}, nup = 2x1]{file}
```

$nup = 1 \times 2 \neq nup = 2 \times 1$

alignment

portrait is default

landscape

```
\includepdf[landscape=true,pages=-]{file}
```

frames

```
frame= true
```

delta

```
delta=Xmm Xmm
```

Beamer Class Handout

```
\includepdf[pages=-,nup= 2x2,frame= true,  
delta=3mm 3mm]{Handout-classic}
```

offset

```
offset=Xmm Xmm
```

signature

```
\includepdf[pages=-7, signature=4, landscape]{file}
```

package

hyperref

jumping

reference

document

properties

opening

Start

default

```
\usepackage{hyperref}
```

link properties

mode, looking, color

pdf properties

info, openings, etc.

options

draft, debug, implicit, ...

default references

cite, ref and footnotes

references

URLs

bookmarks

headings

switch off default reference

```
\usepackage[implicit=false]{hyperref}
```

URLs

```
\href{http://www.namsu.de}{\LaTeX{} Course}  
\href{mailto:test@example.net}{eMail to test}
```

bookmark options

```
\usepackage[bookmarksopen]{hyperref}  
\usepackage[bookmarksopenlevel=section]{hyperref}
```

link name

link

cite

url

link color

```
\usepackage[<name>color=<Farbe>]{hyperref}
```

```
\usepackage[urlcolor=blue]{hyperref}
```

link frame color

```
\usepackage[<name>bordercolor=<RGB-Code>]{hyperref}
```

```
\usepackage[urlbordercolor=1 0 1]{hyperref}
```


additional

```
\hypersetup{colorlinks=false}
```

or

```
\usepackage[colorlinks=false,  
            urlbordercolor=1 0 1]{hyperref}
```

```
\hypersetup{
  pdftitle      = {title},
  pdfsubject    = {subject },
  pdfauthor     = {author or authors},
  pdfkeywords   = {keyword 1, keyword 2 ...} ,
  pdfcreator    = {which application pdflatex},
  pdfproducer   = {LaTeX with hyperref}
}
```

whole page

```
\usepackage[pdfstartview={Fit}]{hyperref}
```

height

```
\usepackage[pdfstartview={FitV}]{hyperref}
```

width

```
\usepackage[pdfstartview={FitH}]{hyperref}
```

```
\documentclass{beamer}  
\setbeamertemplate{navigation symbols}{}  
\usepackage{beamerthemeshadow}  
  
\begin{document}  
\title{Beamer Class well nice}  
\author{Sascha Frank}  
\date{\today}
```

```
\begin{frame}  
\titlepage  
\end{frame}
```

```
\begin{frame}  
\frametitle{Table of contents}  
\tableofcontents  
\end{frame}
```

```
\begin{itemize}
\item Introduction to \LaTeX \pause
\item Course 2 \pause
\item Termpapers and presentations with \LaTeX \pause
\item Beamer class
\end{itemize}
```

- Introduction to \LaTeX
- Course 2
- Termpapers and presentations with \LaTeX
- Beamer class

```
\begin{block}{title of the bloc}  
bloc text  
\end{block}
```

title of the bloc

bloc text

```
\begin{exampleblock}{title of the bloc}  
bloc text  
\end{exampleblock}
```

title of the bloc

bloc text


```
\begin{alertblock}{title of the bloc}  
bloc text  
\end{alertblock}
```

title of the bloc

bloc text

```

\begin{columns}
\begin{column}{5cm}
\begin{itemize}
\item Beamer
\item Beamer Class
\item Beamer Class Latex
\end{itemize}
\end{column}
\begin{column}{5cm}
\begin{tabular}{|c|c|}
\hline
\textbf{Instructor} & \textbf{Title} \\
\hline
Sascha Frank & \LaTeX \ Course 1 \\
\hline
Sascha Frank & Course serial \\
\hline
\end{tabular}
\end{column}
\end{columns}

```

- Beamer
- Beamer Class
- Beamer Class Latex

Instructor	Title
Sascha Frank	L ^A T _E X Course 1
Sascha Frank	Course serial

```
\begin{figure}  
\includegraphics[scale=0.5]{PIC1}  
\caption{show an example picture}  
\end{figure}
```

```
\begin{columns}
\begin{column}{5cm}
\begin{itemize}
\item<1-> subject 1
\item<3-> subject 2
\item<5-> subject 3
\end{itemize}
\vspace{3cm}
\end{column}
\begin{column}{5cm}
\begin{overprint}
\includegraphics<2>{PIC1}
\includegraphics<4>{PIC2}
\includegraphics<6>{PIC3}
\end{overprint}
\end{column}
\end{columns}
```

- subject 1
- subject 2
- subject 3

PIC 1

PIC

```
\begin{frame}[plain]
\frametitle{plain, or a way to get more space}
\begin{figure}
\includegraphics[scale=0.5]{PIC1}
\caption{show an example picture}
\end{figure}
\end{frame}
```

plain, or a way to get more space

PIC 1

Figure: show an example picture