LaTeX for Economics and Business Administration (Part II)

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Introduction
Recap
Agenda

Packages, packages, and packages
references

Figures

Tables

Automizing tables

Slides
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Conclusion

Previously

- Pros and cons of LaTeX

- Why bother with learning LaTeX
  - for consistent/structured lay-out
  - better automation of workflow

- Compiling, referencing, formula's, text control

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This session we look at

- Packages (controlling the preamble)

- Figures (how to insert them?)

- Tables (inserting plaing tables)

- Automatizing tables (complex tables)

- Better looking references

- Making slides

Note: we will only touch upon these subjects

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The use of packages

- Typically, packages are used to change appearance
- To ensure no errors, usually opt for the full installation or haveaccess to internet
- There are lots of them, see CTAN
- Often used packages
  - amsmath, graphicx, subfig, marvosym, microtype, booktabs, lipsum, pdflscape, fullpage, natbib
- format:

```
1  \usepackage[colorlinks=true,citecolor=magenta,
2            urlcolor=magenta]{hyperref}
```

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The use of classes

- Typically one uses the `article` class
- However, there is as well a `book`, `mininal`, `report`, `beamer` class etcetera
- Specific user written classes are `memoir` and `elsarticle` classes
- Classes come with options such as

```
1  \documentclass[12pt, a4paper]{article}
```

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General structure

```latex
1  \documentclass[twocolumn, a4paper]{article}
2  % Preamble: how should it look like
3  \usepackage{multicol, lipsum}
4  \usepackage[english, german]{babel}
5  \begin{document}
6       % Body: the real contents
7       \lipsum
8  \end{document}
9
```

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natbib & biblatex

Default format is BibTeX—customizable (however limited)—defaults is good (except: use natbib!)
If you want to customize quite a lot: biblatex package!

```
1  \usepackage[style= authoryear-icomp,
2             backend=bibtex,
3             natbib=true,
4             firstinits=true,
5             backref=true,
6             maxnames=2,
7             maxbibnames=10]
8                      {biblatex}
```

content

content

content

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Slides

Slides are typically made with the beamer class

```latex
1   \documentclass{beamer}
2   \title{Another lecture}
3   \author{By a wisecrack lecturer}
4
5   \begin{document}
6     \frame{\titlepage}
7
8     \begin{frame}{Introduction}
9   %       Typically a quote from a long
10  %       dead philosopher that should
11  %       make the lecturer look smart
12  %       but usually does not.
13    \end{frame}
14  \end{document}
```

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Beamer style

You can change the beamer style by:

```
1  \usetheme{Hannover}
2  \usecolortheme{dove}
3
4  % to remove those navigation symbols
5  \beamertemplatenavigationsymbolsempty
6
```

(https://www.hartwork.org/beamer-theme-matrix/ gives all possible combinations

content