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# DissLatexSpecialChapters

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## Special chapters

### Index

To create an index you need the following things.

- the package `makeidx` `\usepackage{makeidx}`
- Some entries like `The Matterhorn\index{Matterhorn}` is a famous mountain in Switzerland. The text inside the brackets isn't displayed, it is only used for the index. In this case you have to rewrite the word twice (what is sad), on the other hand you can use another form of it (like a singular) for the index
- The program `makeindex`. It needs the name of the main Latex file as argument (without the extension `.tex`)
- At the place, where the index should appear `\printindex`
- A three-time compilation (one time before `makeindex` twice after), see also section create

### References

You need:

- An information about the layout of the references (inside the document statement)  
`\bibliographystyle{plain}` where `plain` may be replaced by many different ref-style files. Some of them are defined by default for all the others you need a `refstyle.bst` file. **Remark:** Inside the `\bibliographystyle` statement the file name is written without the extension `.bst`.
- The program `bibtex`, which need the name of your main Latex-file as argument (without the extension `.tex`).
- Of course a catalog of references itself. To create this you have at least three different ways available:
  - ◆ Do anything manual, where the example should explain the syntax by itself. **Remark:** the editor Xemacs knows the `bibtex` syntax
  - ◆ Directly inside the Latex-File where  
`\begin{thebibliography}`  
`\bibitem{ref}`The name of the reference  
`\end{thebibliography}`  
is used.
  - ◆ With the tool `wos2bib` (by Jörg Mäder, C-Source Linux), which is able to convert the output from web of science:
    1. Collect your references at Web of Science (Mark the papers at the left and press submit marks, repeat as often as necessary)
    2. Go to the page marked list (Button is at the top).
    3. Check the option document type (and others if you want).
    4. Click save to file to create a file on your computer.
    5. Start `wos2bib` with the name of the new file as argument and add the output to your current `bibtex` file  
`wos2bib savedrec.txt >> diss_ref.bib`. At the first call use `>` instead of `>>`
    6. Edit `diss_ref.bib` if necessary
  - ◆ `wos2bib` is also available as Online-Tool, which contains more features.

- Some references in your .tex-files like `\cite{ref}` where ref is mostly composed by the first name of the first author and the year of publication (eg:Tell:1291).
- A Link to the reference collection inside the document statement) `\bibliography{diss_ref}` which will create the reference index Remark: Also here .bib is not used. Multiple files may be separated by comma (without spaces between).
- A three-time compilation (one time before makeindex twice after), see also create

## Cross references

With `\label{name}` you can mark any kind of object (or location). After that you can use `\pageref{name}` to refer to the page of the named item or `\ref{name}` for the chapter-numbering (or figure/table if it is used inside their environment).

## Content, table index and figure index

Just include `\tableofcontents`, `\listoftables` resp. `\listoffigures` at the place where it should appear.

-- JoergMaeder - 20 Dec 2010

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