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Module 5: L^AT_EX

Lecture 4: Citing with B_IB_TE_X



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To cite properly while making it easy to switch between citation styles and keeping the bibliographic data centralized.

BIB_TE_X lets you

- keep one (structured!) file with bibliographic data for all your publications
- cite independently of citation styles (default, defined by the publisher, self defined)

BIB_TE_X deals properly with

- different document types (books, articles, conference proceedings, theses, etc. . .)
- special characters (coded in L^AT_EX)

```
@type{label,  
      field 1 = {value 1},  
      ...  
      field n = {value n},  
}
```

- *type*: article, book, booklet, conference, inbook, incollection, inproceedings, manual, masterthesis, misc, phdthesis, proceedings, techreport, unpublished
- *label* is any label (to use with `\cite{label}`)
- *field i*: address, annote, author, booktitle, chapter, crossref, edition, editor, howpublished, institution, journal, key, month, note, number, organization, pages, publisher, school, series, title, type, volume, year

- ↳ Depending on *type*, some *fields* are required, others are optional, yet others are ignored (cf. the first of O. Patashnik. BIBTEXing and Designing BIBTEX styles, February 1988.
<http://mirrors.ctan.org/biblio/bibtex/base/btxdoc.pdf>, resp.
<http://mirrors.ctan.org/biblio/bibtex/base/btxhak.pdf>)
- ↳ No comment character in bib files

A further reading bibliography

- ➞ D. E. Knuth. *The T_EXBOOK*, volume A of *Computers & Typesetting*. Addison-Wesley, 1986. ISBN 978-0-201-13447-6
- ➞ L. Lamport. *L_AT_EX: A Document Preparation System*. Addison-Wesley, 2nd edition, 1994. ISBN 978-0-201-52983-8
- ➞ O. Patashnik. BIB_TE_X 1.0. *TUGboat*, 15(3):269-273, 1994
- ➞ F. Mittelbach, M. Goossens, J. Braams, D. Carlisle, and C. Rowley. *The L_AT_EX Companion*. Addison-Wesley, 2nd edition, 2004. ISBN 0-201-36299-6
- ➞ M. Goossens, F. Mittelbach, S. Rahtz, D. Roegel, and H. Voss. *The L_AT_EX Graphics Companion*. Addison-Wesley, 2nd edition, 2007. ISBN 0-321-50892-0
- ➞ T. Oetiker, H. Partl, I. Hyna, and E. Schlegl. *The not so short introduction to L_AT_EX 2_ε*, 1995-2016.

BIB_TE_X

The bib-file

```
@book{knuth1986,
  author = {Knuth, Donald Ervin},
  title = {The \textrm{\TeX}book},
  series = {Computers & Typesetting},
  volume = {{A}},
  year = {1986},
  publisher = {Addison-Wesley},
  isbn = {978-0-201-13447-6},
}
@book{lamport1994,
  author = {Lamport, Leslie},
  title = {\textrm{\LaTeX}: A Document Preparati
  edition = {2nd},
  year = {1994},
  publisher = {Addison-Wesley},
  isbn = {978-0-201-52983-8},
}
@article{patashnik1994,
  author = {Patashnik, Oren},
  title = {\textrm{\BibTeX} 1.0},
  journal = {{TUG}boat},
  year = {1994},
  volume = {15},
  number = {3},
  pages = {269--273},
}
```

```
In \cite{patashnik1994}, the author discusses the
history of \BibTeX{} and depicts his future plans
for version~1.0.
```

```
\bibliographystyle{abbrv}
\bibliography{furtherreading}
```

In [1], the author discusses the history of BIB_TE_X and depicts his future plans for version 1.0.

References

- [1] O. Patashnik. BIB_TE_X 1.0. *TUGboat*, 15(3):269–273, 1994.

- Running `latex` stores the BIB_TE_X-relevant data in the `aux` file
- Running `bibtex` reads the `aux` file and stores the bibliography in the `bbl` file
- Running `latex` reads the bibliography from the `bbl` file and stores the citations in the `aux` file
- Running `latex` again resolves the references by reading the `\bibcite` entries from the `aux` file

```
latex file.tex && bibtex file && latex file.tex && latex file.tex
```

More about citing natbib

```
\usepackage[square,sort,comma,numbers]{natbib}
```

Change the bibliography style to `\bibliographystyle{plainnat}`.

Reference styles

<code>\citet{goossens93}</code>	Goossens et al. (1993)
<code>\citep{goossens93}</code>	(Goossens et al., 1993)
<code>\citet*{goossens93}</code>	Goossens, Mittlebach, and Samarin (1993)
<code>\citeauthor{goossens93}</code>	Goossens et al.
<code>\citeauthor*{goossens93}</code>	Goossens, Mittlebach, and Samarin
<code>\citeyear{goossens93}</code>	1993
<code>\citeyearpar{goossens93}</code>	(1993)
<code>\citealt{goossens93}</code>	Goossens et al. 1993
<code>\citealp{goossens93}</code>	Goossens et al., 1993

Orosei et al. [2017]
Orosei, Rossi, Cantini, Caprarelli, Carter, Papiano, Cartacci, Cicchetti, and
Noschese [2017]
[see Orosei et al., 2017]
Cantini and Ivanov (2016)
(Lauro et al.; 2017)

References

- F. Cantini and A. B. Ivanov. Mars, accessing the third dimension: a software tool to exploit mars ground penetrating radars data. In *EGU General Assembly Conference Abstracts*, volume 18, page 12545, 2016.
- S. Lauro, G. Gennarelli, E. Pettinelli, F. Soldovieri, F. Cantini, A. Rossi, and R. Orosei. A strategy for an accurate estimation of the basal permittivity in the martian north polar layered deposits. *Geophysical Prospecting*, 65(3): 891–900, 2017.
- R. Orosei, A. P. Rossi, F. Cantini, G. Caprarelli, L. M. Carter, I. Papiano, M. Cartacci, A. Cicchetti, and R. Noschese. Radar sounding of lucus planum, mars, by marsis. *Journal of Geophysical Research: Planets*, 2017.



for more information <https://gking.harvard.edu/files/natnotes2.pdf>,
<http://mirrors.ctan.org/macros/latex/contrib/natbib/natbib.pdf> and
<http://mirrors.ctan.org/macros/latex/contrib/natbib/natnotes.pdf>

- Build your own bib file using *Google Scholar*, a publisher website of your choice or the website <https://doi2bib.org/>
- Using the file `Exercise_4/ex_4.pdf` as example, write a short text citing at least two articles (or books).
- Try different citation styles (you can get inspiration from <https://verbosus.com/bibtex-style-examples.html>, <http://www.cs.stir.ac.uk/~kjt/software/latex/showbst.html> and/or <http://www.reed.edu/cis/help/LaTeX/bibtexstyles.html>).

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