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Webinar 4: Getting started with L^AT_EX

Citing with B_IB_TE_X



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To cite properly while making 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conference, inbook, incollection, inproceedings, manual, masterthesis, misc, phdthesis, proceedings, techreport, unpublished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
- No comment character in bib files

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


```
@article{patashnik2000,  
  author = {Patashnik, Oren},  
  title = {\textrm{\BibTeX} 1.0},  
  journal = {{TUG}boat},  
  year = {1994},  
  volume = {15},  
  number = {3},  
  pages = {269--273},  
}
```

What kind of publication is described by the code snippet?

1. A book whose author is Oren Patashnik
2. An article published in 2000
3. An article titled $\text{BIB}\text{T}_{\text{E}}\text{X}$ 1.0

```
\usepackage[square,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. Petinelli, 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 Iusplumma, mars, by marsis. *Journal of Geophysical Research: Planets*, 2017.

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