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# Getting started with $\text{\LaTeX}$ Citing with $\text{\BIBTeX}$



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

BIB<sub>T</sub>E<sub>X</sub> 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<sub>T</sub>E<sub>X</sub> deals properly with

- different document types (books, articles, conference proceedings, theses, etc. . . )
- special characters (coded in L<sup>A</sup>T<sub>E</sub>X)

```
@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conference, inbook, incollection, inproceedings, manual, masterthesis, misc, phdthesis, proceedings, techreport, unpublished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, annotate, 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<sub>T</sub>E<sub>X</sub>

## 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{lampport1994,  
  author = {Lampport, 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<sub>T</sub>E<sub>X</sub> and depicts his future plans for version 1.0.

## References

- [1] O. Patashnik. BIB<sub>T</sub>E<sub>X</sub> 1.0. *TUGboat*, 15(3):269–273, 1994.

- Running `latex` stores the BIB $\text{T}_\text{E}\text{X}$ -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



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

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

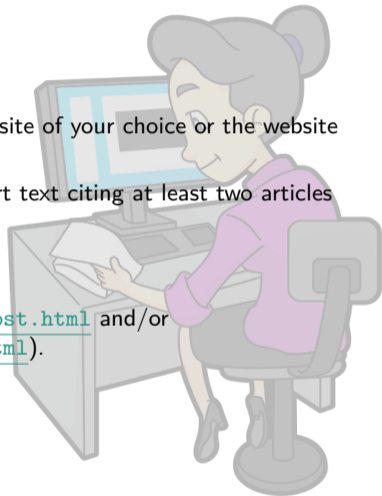
	<code>\citet{goossens93}</code>	Goossens et al. (1993)
	<code>\citep{goossens93}</code>	(Goossens et al., 1993)
	<code>\citet*{goossens93}</code>	Goossens, Mittlebach, and Samarin (1993)
	<code>\citeauthor{goossens93}</code>	Goossens et al.
Reference styles	<code>\citeauthor*{goossens93}</code>	Goossens, 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.

- 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>, <https://www.cs.stir.ac.uk/~kjt/software/latex/showbst.html> and/or <https://www.reed.edu/cis/help/LaTeX/bibtexstyles.html>).



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## More about citing

Slide 11 background image: Free Clip Art

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