



Yazd Univ.

BIB $\text{\TeX}$ Reference Manager

BIB $\text{\TeX}$ Reference
Manager

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Yazd University

Bahman 1389

Why BIB $\text{\TeX}$

Style of $\text{\TeX}$ file
with BIB $\text{\TeX}$

BIB Database file

.bib file structure

Bibliography Styles

Motivation

BIB_TE_X

BIB_TE_X is reference management software for formatting lists of references. The BIB_TE_X tool is typically used together with the L_AT_EX document preparation system.

History

- BIB_TE_X was created by Oren Patashnik and Leslie Lamport in 1985.



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Why BIB_TE_X?

- Create and maintain bibliography automatically (No work needed to be done manually).
- References need not be retyped for each article.
- BIB_TE_X will **select**, **sort** and **format** the needed references from the databases.
- Always have updated references when you are preparing a text (article, book, thesis, etc.).
- Generate a good database of references in your field of research (no need to look-up same paper several times).
- There also is a lot of BIB_TE_X data available ready-to-use (websites, online databases).
- BIB_TE_X is stable. The current version of BIB_TE_X 0.99c has not been modified since 1988.



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Separating content from style



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Main ideas behind:

- $\text{\LaTeX}$: Concentrate on content and leave the tedious part of writing to your computer.
- BIB $\text{\TeX}$: The same.

Content

Style

Document File(s) *.tex

Document Style File(s) *.sty

Bibliography File(s) *.bib

Bibliography Style File *.bst

- In $\text{\LaTeX}$: You describe the logical parts (like title, section, subsection, etc.) of the text and let the style file to choose how to typeset it. So you can put your document to any style without changing it.
- In BIB $\text{\TeX}$: The same. You describe the reference items in general form and let the computer to choose the form.

Separating content from style



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Document Style File(s) *.sty

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Document File(s) *.tex	Document Style File(s) *.sty
Bibliography File(s) *.bib	Bibliography Style File *.bst

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دانشگاه شهرداری

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Style of T_EX file
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\end{document}

Style of T_EX file with BIBT_EX



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```
\documentclass{article}
```

```
\begin{document}
```

A $\$t\$$ -spanner of a point set $\$V\$$ is a undirected weighted graph $\$G\$$

.

.

.

```
\bibliographystyle{BIB Style Name}
```

```
\bibliography{BIB File}
```

```
\end{document}
```

Example:

Style of T_EX file with BIBT_EX



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```
\documentclass{article}
```

```
\begin{document}
```

A $\$t\$$ -spanner of a point set $\$V\$$ is a undirected weighted graph $\$G\$$

.

.

.

```
\bibliographystyle{BIB Style Name}
```

```
\bibliography{BIB File}
```

```
\end{document}
```

Example:

```
\documentclass{article}
```

```
\begin{document}
```

A $\$t\$$ -spanner of a point set $\$V\$$ is a undirected weighted graph $\$G\$$

.

.

.

```
\bibliographystyle{plain}
```

```
\bibliography{Sample-BIB}
```

```
\end{document}
```




```
@article{alwwf-gswah-03
, author =      "Khaled M. Alzoubi and Xiang-Yang Li and Yu Wang and
, title =       "Geometric Spanners for Wireless Ad Hoc Networks"
, journal =     "{IEEE} Transactions on Parallel and Distributed Systems"
, volume =      14
, number =      4
, pages =       "408--421"
, year =        2003
}
```

```
@incollection{e-sts-00
, author =      "David Eppstein"
, title =       "Spanning Trees and Spanners"
, editor =      "J.-R. Sack and J. Urrutia"
, booktitle =   "Handbook of Computational Geometry"
, publisher =   "Elsevier Science Publishers"
, address =     "Amsterdam"
, year =        2000
, pages =       "425--461"
}
```

Running $\text{\LaTeX}$ and $\text{\BibTeX}$

- latex filename
- bibtex filename
- latex filename
- latex filename

The outcome of the commands is a .bbl file which contains the bibliography. No need to add it to the tex-file manually.

Important points:

- All the commands should be run after any changes in BIB database or style of the bibliography.
- $\text{\BibTeX}$ only add references that we have in the .tex file (with $\backslash\text{cite}\{\}$ commad).



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Running $\text{\LaTeX}$ and $\text{\BibTeX}$



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.bib file structure

.bib file contains:

- Entries like @book, @article, @inproceedings
- Entries contain fields, like author, title



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@Article @Book @Booklet
@InBook @InCollection @InProceedings
@Manual @MastersThesis @Misc
@PhDThesis @Proceedings @TechReport
@Unpublished @Preamble @String

title author journal number
volume year pages publisher
booktitle chapter crossref edition
editor institution address month
note organization school series

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- Entries contain fields, like author, title

.bib file entries: (not case sensitive)

@Article	@Book	@Booklet
@InBook	@InCollection	@InProceedings
@Manual	@MastersThesis	@Misc
@PhdThesis	@Proceedings	@TechReport
@Unpublished	@Preamble	@String

title	author	journal	number
volume	year	pages	publisher
booktitle	chapter	crossref	edition
editor	institution	address	month
note	organization	school	series



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@Manual	@MastersThesis	@Misc
@PhdThesis	@Proceedings	@TechReport
@Unpublished	@Preamble	@String

.bib file fields: (not case sensitive)

title	author	journal	number
volume	year	pages	publisher
booktitle	chapter	crossref	edition
editor	institution	address	month
note	organization	school	series



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```
@book{mn-pcgc-00,  
  author= "Kurt Mehlhorn and Stefan N{\a}her",  
  title  = "LEDA: A Platform for Combinatorial and Geometric Computing",  
  publisher= "Cambridge University Press",  
  address = "Cambridge, UK",  
  year  = 2000  
}
```

```
@article{alwwf-gswah-03,  
  author= "Khaled M. Alzoubi and Xiang-Yang Li and Yu Wang and  
  Peng-Jun Wan and Ophir Frieder",  
  title  = "Geometric Spanners for Wireless Ad Hoc Networks",  
  journal = "{IEEE} Transactions on Parallel and Distributed Systems",  
  volume = 14,  
  number = 4,  
  pages  = "408--421",  
  year  = 2003  
}
```

Notice:

- Multiple names are separated by **and**, not by commas
- Accented letters should be put in { } (also in other fields)
- Normally full first names should be entered, abbreviation is BIB_TE_X's business
- The bibstyle determines capitalization
- You can overrule it by using brace groups, e.g. {IBM}



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Some of common bibliography styles:

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- unsrt
- alpha
- acm
- unsrnat

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