BIBTEX

LATEXDeCal

Department of Mathematics
University of California, Berkeley

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Outline

- **Introduction**
- Preparing BIBTEX
- Using BIBTEX

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What is BIBTEX?

- A program that works with LATEXto produce bibliographies.
- Does not require separate installation

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Set Up
Making the Database

- To use BIBTEX, one needs (at least one) a bibliography database file
- Database files end .bib

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Format

```
@book{Szekeres:2004,
  author = "Peter Szekeres",
  title = {A course in modern mathematical physics:
          groups {H}ilbert space and
          differential geometry},
  publisher = "Cambridge University Press",
  address = Cambridge,
  year = 2004,
}
```

Record Types

`@article`	An article published in a periodical.
`@book`	A book with a defined author and publisher.
`@conference`	An article printed in the proceedings of a conference.
`@inproceedings`	Same as `@conference`.
`@manual`	A technical document or reference manual.
`@mastersthesis`	A thesis for a master's degree.
`@misc`	For works that are hard to categorize (i.e. websites).
`@phdthesis`	Like `@mastersthesis`, but for doctoral theses.

Data Fields

address	The address (usually just the city and state) of the publisher.
author	The author(s); special considerations to be discussed shortly.
booktitle	The title of the book, when citing an article printed in a book.
edition	The edition of the book; write it out in full.
editor	The editor(s); refer to the discussion of the author name.
journal	The name of the periodical in which an article is published.

`month`	The month of publication for a periodical; can be abbreviated.
`note`	For information that does not fit into any other category.
`publisher`	The name of publisher. What else?
`title`	The title of the article or book.
`url`	The uniform resource locater of a document accessed online.
`volume`	The volume number of a journal or multiple volume book.
`year`	The year of publication.

Using BIBTEX

- **\cite** inserts citations
    - \cite{*citation key(s)*}
    - \cite[*comments*]{*citation key*}
- \bibliography
    - \bibliography{*filename(s)*}
- \bibliographystyle{*style name*}
- \nocite{}
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Generic Bibliography Styles

Table: Generic BIBTEXstyles

plain	Alphabetically sorted entries, labelled with numbers
unsrt	Unsorted, numbered entries
alpha	Like `plain`, but with ugly labelling
abbrv	Like `plain`, but with abbreviations

Bibliography Styles

Table: Common BIBTEX style packages

apa	An implementation of APA style.
apacite	Another APA style package.
apalike	It's like APA, but not quite.
chicago	Do it Chicago style.
chicagoa	...another Chicago style.
harvard	Harvard style? Does anyone use this?
jurabib	A few useful styles, as well as footnote support.
natbib	Several styles common in the natural sciences.

Example .bib File

```
@Book{lamport,
  author =   {Leslie Lamport},
  title =    {{\LaTeX} User's Guide and Reference
Manual},
  publisher =   {Addison-Wesley},
  year =   {1994},
}

@Booklet{reader,
  title =    {{\LaTeX} for Math and Science},
  OPTkey =   {},
  author =   {Cordelia Csar and Elizabeth Dyer and
Alan Leong and Thomson Nguyen and Dan Volmar},
}
```

Example Bibliography Insertion

```
\bibliography{bibtexbib}
\bibliographystyle{plain}
\nocite{*}
```

Example

📄 Cordelia Csar, Elizabeth Dyer, Alan Leong, Thomson Nguyen, and Dan Volmar.
LATEX for math and science.

📄 Leslie Lamport.
LATEX User's Guide and Reference Manual.
Addison-Wesley, 1994.