

Creating Bibliography with Bib_TE_X

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L^AT_EX Bibliography

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There are two ways of producing a bibliography with L^AT_EX

- By manually listing the entries

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There are two ways of producing a bibliography with L^AT_EX

- By manually listing the entries
- Producing it automatically using BibTeX

L^AT_EX Bibliography — manually

Bibliography is produced manually with the environment

```
\begin{thebibliography}  
  \bibitem[label1]{cite_key1} bibliographic information  
  \bibitem[label2]{cite_key2} bibliographic information  
\end{thebibliography}
```

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thebibliography environment

This environment

- adds Bibliography into table of contents
- sets up the style of the bibliography pages

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widest entry is a dummy number with as many digits as the largest

L^AT_EX Bibliography — manually

Here is an example:

```
\begin{thebibliography}{100} % 100 is a random guess
% of the total number of references
\bibitem{Boney96} Boney, L., Tewfik, A.H., and Hamdy, K.N.,
‘‘Digital Watermarks for Audio Signals,” \emph{Proceedings
of the Third IEEE International Conference on Multimedia},
pp. 473–480, June 1996.
\bibitem{MG} Goossens, M., Mittelbach, F., Samarin, \emph{
A LaTeX Companion}, Addison-Wesley, Reading, MA, 1994.
\end{thebibliography}
```

LaTeX Bibliography — manually

The above code produces:

References

- [1] Boney, L., Tewfik, A.H., and Hamdy, K.N., “Digital Watermarks for Audio Signals,” *Proceedings of the Third IEEE International Conference on Multimedia*, pp. 473-480, June 1996.
- [2] Goossens, M., Mittelbach, F., Samarin, *A LaTeX Companion*, Addison-Wesley, Reading, MA, 1994.

BibTeX — Bibliography automatically

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- A bibliography laid out in one style is extremely difficult to convert to another
- It is difficult to maintain a database of bibliographic references that can be reused
- It is difficult to manage sorting

BibTeX Bibliography automatically

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BibTeX has its own format for including publication details

BibTeX Bibliography automatically

The entries in a bibliography database are of the form

```
@entry_type{cite_key,  
    field_name = {field text},  
    ...  
    field_name = {field text}  
}
```

BibTeX Bibliography automatically

For example, a book may be included as follows:

```
@BOOK{HK,  
  AUTHOR={H. Kopka and P. W. Daly},  
  TITLE={A Guide to LaTeX},  
  PUBLISHER={Addison-Wesley},  
  ADDRESS={Reading, MA},  
  YEAR=1999.  
}
```

BibTeX Bibliography automatically

And a journal publication may be included as:

```
@Article{marshallpalmer1948,  
author = {J.~Marshall and W.~Palmer},  
title = {The distribution of raindrops with size},  
journal = jm,  
year = {1948},  
OPTkey = {},  
volume = {5},  
OPTnumber = {},  
pages = {165-166},  
OPTmonth = {},  
OPTnote = {(USA)},  
OPTannote = {}  
}
```

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- unsrt:** Standard BibTeX style. Similar to plain, but entries are printed in order of citation, rather than sorted. Numeric labels are used.

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There are numerous styles, and we can create our own too. For example,

- plain:** Standard BibTeX style. Entries sorted alphabetically with numeric labels.
- unsrt:** Standard BibTeX style. Similar to plain, but entries are printed in order of citation, rather than sorted. Numeric labels are used.
- alpha:** Standard BibTeX style. Similar to plain, but the labels of the entries are formed from the authors name and the year of publication.

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- apalike:** Alternative BibTeX style, used by the journals of the American Psychology Association. It should be used together with the L^AT_EX apalike package. The bibliography entries are formatted alphabetically, last name first, each entry having a hanging indentation and no label.

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We can create style files ourselves using a program called makebst

BibTeX Bibliography automatically

Once these are ready, we can cite references in our documents using

```
\cite{cite_key}
```

Then, where you want the list of references included, add

```
\bibliographystyle{whatever}  
\bibliography{filename.bst}
```

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Once the document is done, do the following:

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- 2 Run `latex` (or `pdflatex`)
- 3 Run `bibtex` on the file

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- 4 Again run latex (or pdflatex)
- 5 Run dvipdf, if needed

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Our lives are made much easier!

Happy T_EXing!