

# Instructions for Using Bibtex with Latex Documents

Dorothea Frances Brosius  
Institute for Research in Electronics and Applied Physics  
University of Maryland  
College Park, MD 20742-3511

July 11, 2013

Using Bibtex with Latex documents is not hard. The bulk of the work is organizing your bibtex file, which is a data base compiled by you of the articles, books, etc. which you use in the bibliographies or reference sections of your publications. The file `BibtexSamples.tex` contains examples of information needed for the different types of references you may wish to use (e.g., articles in refereed journals, books, unpublished articles, conference proceedings).

The first two pages of this document are instructions for using Bibtex; the remaining pages were taken from a published article and show how the references were cited in the .tex file.

1. Note that the references in the .tex file are cited with the same label which is used in your bib file (e.g.,

```
~\cite{lang1999}.
```

The reference numbers will be enclosed in brackets [1] in the dvi file.

2. At the end of the document, where you would normally type your references or bibliography, insert the following lines:

```
\newpage \bibliographystyle{unsrt}  
\bibliography{the name of your bib file}
```

In my case I used

```
\bibliography{Galactic,Diorio,Griem-Bibtex}
```

The three bibfiles used were `Galactic.bib`, `Diorio.bib`, and `Griem-Bibtex.bib`.

```
\bibliographystyle{unsrt}
```

will sort the entries in the order of their first appearance in your text.

After setting up your tex document (in this case, BibtexInstructions.tex) and your bibtex documents (in this case, Galactic.bib, Diorio.bib and Griem-Bibtex.bib), do the following:

1. Typeset your document
2. Bibtex your document (in PcTex: Tools, Bibliography) (in WinEdt, click on the Bib icon)
3. Typeset your document a second time

Not only will the reference numbers in the dvi file be in brackets (e.g., [1]), but your bibliography will automatically show in your references without your having to type them individually.

I have attached several other files to the pdf file which you are viewing. They are the copies of the original BibtexInstructions.tex file, Galactic.bib (the bib file used with this document), Galactic.bbl (the bbl file is made by Bibtex from the bib file) and BibtexSamples.tex. BibtexSamples.tex will give an example of the information needed for the various publications you wish to reference. **NOTE: When saving your bibtex file, type parentheses around the filename ("filename.bib"). This keeps the file a bib file and does not automatically save it as a .tex file.** The original .pdf file, the .tex files and the .bib files can be downloaded from <http://www.ireap.umd.edu/ireap/thesis/bibtex> for your use.

Adding doi numbers to your reference: Place the doi number in quotes on the note line of your bib file as shown below.

```
@ARTICLE{hindmarsh1995,
AUTHOR = "M. B. Hindmarsh and T. W. B. Kibble",
TITLE = "Cosmic Strings",
JOURNAL = "Rep. Prog. Phys.",
YEAR = "1995",
volume = "58",
number = "5",
pages = "477-562",
month = "May",
abstract = "",
keywords = "",
note = "doi: 10.1088/0034-4885/58/5/001",
file = F
}
```

Some standard bibliography styles you may find useful:

**unsrt** Sorts entries in the order in which they appear in the text, first name and last name

**acm** Sorts entries in the order in which they appear in the text, last name, first name (upper and lower caps)

**plain** Sorts entries in alphabetical order; places first and second initial before last name

**abbrv** Sorts alphabetically by last name; places first initial before last name

A list of BibTeX style examples may be found at  
<http://www.cs.stir.ac.uk/~kjt/software/latex/showbst.html>.

If you have questions concerning BibTeX, please contact me at 301 405-4955 or dbrosius at umd.edu [1].

## 1 Bibliography entries

lang1999 [2], hindmarsh1995 [3], genzel2007 [4], morris2004 [5], genzel2002 [6], matzner1990 [7], davis2005 [8], silveira1991 [9], bellan2004 [10], chud1986 [11], copeland1987 [12], lang2004 [13], butler1991 [14], Lang2002 [15], sofue2001 [16], landaumech [17], lang2003 [18], ott2003 [19], polchinski2004 [20], Stokes:1847 [21], Stokes:1847 [21], Phillips:1961 [22], Petzler:1984 [23], Phillips:1961 [22], Bhattacherryya:2003 [24], Banner:1985 [25], Plant:1999 [26], BF:1967 [27], Brosius:2011 [1].

## References

- [1] D.F. Brosius. Instructions for using bibtex with latex documents. *Phys. Plasmas*, 1:0001, 2011.
- [2] Cornelia C. Lang, K. R. Anantharamaiah, N. E. Kassim, and T. J. W. Lazio. Discovery of a nonthermal galactic center filament (g358.85+0.47) parallel to the galactic plane. *Astrophys. J.*, 521:L41–L44,, August 1999,. doi: 10.1016/j.paid.2006.06.002.
- [3] M. B. Hindmarsh and T. W. B. Kibble. Cosmic strings. *Rep. Prog. Phys.*, 58(5):477–562, May 1995. doi: 10.1088/0034-4885/58/5/001.
- [4] M. J. Reid, K. M. Menten, S. Trippe, T. Ott, and R. Genzel. The position of sagittarius A\*. III. motion of the stellar cusp. *Astrophys. J.*, 659:378–379, April 2007.
- [5] A. M. Ghez, S. Salim, S. D. Hornstein, A. Tanner, J. R. Lu, M. Morris, E. E. Becklin, and G. Duchêne. Stellar orbits around the galactic center black hole. *Astrophys. J.*, 620:744–757, February 2005.
- [6] R. Schödel, T. Ott, R. Genzel, R. Hofmann, and et al. A star in a 15.2-year orbit around the supermassive black hole at the centre of the Milky Way. *Nature*, 419:694–696, October 2002.
- [7] Pablo Laguna and Richard A. Matzner. Numerical simulation of bosonic-superconducting-string interactions. *Phys. Rev. D*, 41(6):1751–1763, March 1990.
- [8] Anne-Christine Davis and Konstantinos Dimopoulos. Cosmic superstrings and primordial magnetogenesis. *Phys. Rev. D*, 72:043517, 2005.
- [9] Vanda Silveira. Superconducting strings and stable loops. *Phys. Rev. D*, 43(12):3966–3971, June 1991.
- [10] J. F. Hansen, S. K. P. Tripathi, and P. M. Bellan. Co- and counter-helicity interaction between two adjacent laboratory prominences. *Phys. Plasmas*, 11(6):3177, 2004.
- [11] E. M. Chudnovsky, G. B. Field, D. N. Spergel, and A. Vilenkin. Superconducting cosmic strings. *Phys. Rev. D*, 34(4):944–950, August 1986.
- [12] E. Copeland, M. Hindmarsh, and N. Turok. Dynamics of superconducting cosmic strings. *Phys. Rev. Lett.*, 58(18):1910–1913, May 1987.
- [13] K. S. Dwarakanath, W. M. Goss, J. H. Zhao, and C. C. Lang. On the origin of the wide Hi absorption line towards Sgr A\*. *J. Astrophys. Astr.*, 25:129–141, 2004.
- [14] Malcolm N. Butler, Robert A. Malaney, and Milan B. Mijić. Evolution of a superconducting-cosmic-string network. *Phys. Rev. D*, 43:2535–1541, April 1991.
- [15] F. Yusef-Zadeh, C. Law, M. Wardle, Q. D. Wang, A. Fruscione, C. C. Lang, and A. Cotera. Detection of x-ray emission from the arches cluster near the galactic center. *Astrophys. J.*, 570:665–670, May 2002.
- [16] Yoshiaki Sofue and Vera Rubin. Rotation curves of spiral galaxies. *Annu. Rev. Astron. Astrophys.*, 39:137–174, 2001.

- [17] L. D. Landau and E. M. Lifshitz. *Course of Theoretical Physics*, volume 1. Pergamon Press, England, 3 edition, 1991. Translated from Russian by J. B. Sykes and J. S. Bell.
- [18] Cornelia C. Lang, Claudia Cyganowski, W. M. Goss, and Jun-Nui Zhao. High-resolution H1 absorption observations towards the central 200 pc of the galaxy. *Astron. Nachr./AN*, 324(S1):1–7, 2003.
- [19] N. Mouawad, A. Eckart, S. Pfalzner, J. Moulataka, C. Straubmeier, R. Spurzem, R. Schödel, and T. Ott. Stellar orbits at the center of the Milky Way. *Astron. Nachr./AN*, 324(S1):315–319, 2003.
- [20] Joseph Polchinski. Cosmic superstrings revisited. 2004. Presented at the Mitchell Conference on Superstring Cosmology, GR17, Cosmo04; presented at the 2004 APS-DPF Meeting.
- [21] GG Stokes. On the theory of oscillatory waves. *Transactions of the Cambridge Philosophical Society*, 8:441, 1847.
- [22] OM Phillips. On the dynamics of unsteady gravity waves of finite amplitude 2: Local properties of a random wave field. *J. Fluid Mech.*, 11:143–155, 1961.
- [23] R Petzler. White-water wake characteristics of surface vessels. Memorandum report 5335, Naval Research Laboratory, Washington, DC, June 1984.
- [24] R Bhattacharyya and ME McCormick, editors. *Wave energy conversion*. Elsevier Ocean Engineering Book Series Volume 6. Elsevier, 2003.
- [25] ML Banner and EH Fooks. On the microwave reflectivity of small-scale breaking water waves. *Proceedings of the Royal Society of London, A*, 399:93–109, 1985.
- [26] WJ Plant, PH Dahl, and WC Keller. Microwave and acoustic scattering from parasitic capillary waves. *Journal of Geophysical Research*, 104(C11):25,853–25,866, 1999.
- [27] TB Benjamin and JE Feir. Disintegration of wave trains on deep water 1: Theory. *Journal of Fluid Mechanics*, 27:417–430, 1967.

Using BibTeX. Overview. Creating the .bib File. Running BibTeX. Bibliography Styles. For More Information. LATEX is exible, gives you complete control, handles big, complex documents with ease, and never crashes or corrupts your les. 1. 2 Chapter 1. LATEX Basics. A document class may be modied by options, which are placed in square brackets after the \documentclass command. July 11, 2013. Using Bibtex with Latex documents is not hard. The bulk of the work is organizing your bibtex le, which is a data base compiled by you of the articles, books, etc. which you use in the bibliographies or reference sections of your publications. The le BibtexSamples.tex contains examples of information needed for the dierent types of references you may wish to use (e.g., articles in refereed journals, books, unpublished articles, conference proceedings). The rst two pages of this document are instructions for using Bibtex; the remaining pages were taken from a published article an Instructions for preparation of papers and monographs: ams-latex. Version 2.01: December 1999. 1. Introduction. They describe the use of LATEX document classes provided by the AMS, which produce output that matches AMS publication style specications. (Note: if you have an old version of LATEX version 2.09 or earlier, or dated earlier than December 1994 some of the features described here will not work; upgrading to current LATEX is recommended.) BibTEX processing may alter this order, especially if the style amsalpha.bst is used. All categories of bibliographic entries listed in the LATEX manual [LM, B.2.1] are supported in the two BibTEX styles. Standard abbreviations for periodicals should be obtained from [ASMR].

BibTeX is a program that reads entries from a database of citations based on the output of LATEX and then makes a bibliography file that LATEX can insert into the document. There is lots to say about BibTeX (and some good manuals that do it well) but here are some essentials I have found useful and not covered in the books. (There is a lot to say and learn about LATEX too). Finding the material for a BibTeX database is a chapter of its own, covered at least briefly at <http://www.sci.utah.edu/~macleod/litbase>. There is a repository of bibtex files available for use at the SCI Institute. Quick L Using BibTeX. Autogenerate footnotes with BibLaTeX. BibTeX Format. BibTeX Styles. We have looked at many features of LaTeX so far and learned that many things are automated by LaTeX. There are functions to add a table of contents, lists of tables and figures and also several packages that allow us to generate a bibliography. I will describe how to use bibtex and biblatex (both external programs) to create the bibliography. At first we have to create a .bib file, which contains our bibliographic information. For BibTeX put the `\bibliography` statement in your document, for BibLaTeX in the preamble. BibTeX uses the `\bibliographystyle` command to set the citation style. BibLaTeX chooses the style as an option like: `\usepackage[backend=bibtex, style=verbose-trad2]{biblatex}`. By default (using the plain style) BibTeX orders citations alphabetically. How to order the citations by order of appearance in the document? latex bibtex. share|improve this question. Just a brief note - I'm using a modified version of plain.bst sitting in the directory with my Latex files; it turns out having sorting by order of appearance is a relatively easy change; just find the piece of code: `ITERATE {presort}. SORT`