

# Citation Management with JabRef

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# L<sup>A</sup>T<sub>E</sub>X and bib-files

How bibtex is used in L<sup>A</sup>T<sub>E</sub>X:

```
\documentclass{article}
\usepackage{hyperref}      % very fancy; else: 'cite'

\begin{document}

See , \cite{Saad93}.      % cite a reference

\bibliography{my_bib}      % use file 'my_bib.bib'
\bibliographystyle{plain}

\end{document}
```

A bibtex file is a plain text file with entries of this type:

```
@ARTICLE{Saad93,  
  author    = {Y. Saad},  
  title     = {A flexible inner-outer preconditioned  
              {GMRES} algorithm},  
  journal   = {SIAM J. Sci. Comput.},  
  year      = {1993},  
  volume    = {14},  
  pages     = {461-469},  
  file      = {: Literature/Saad_flexibleGMRES.pdf:PDF},  
  owner     = {manuel},  
  timestamp = {2013.09.09}  
}
```

# What is JabRef?

## Basic Functionality

The tool Jabref ...

- ▶ ... is GPL software
- ▶ ... comes for all platforms
- ▶ <http://sourceforge.net/projects/jabref/>

Moreover, Jabref can

- ▶ open several bibs in a GUI
- ▶ sort them by author, title, year, etc.
- ▶ edit the entries
- ▶ assign files like PDFs to the entries
- ▶ auto-generate citation keys [author] [year]

↪ live performance

# What is JabRef?

## Import/Export of bibtex entries

Importing of bibtex entries:

- ▶ via copy-n-paste from other bib-files
- ▶ from plain text
- ▶ from the Internet

Interplay with the Latex Editor:

- ▶ ctrl-K copies “\cite{citationKey}” to the clipboard

↔live performance

## Set up JabRef on our machines...

Unfortunately, JabRef is not pre-installed on our workstations.

However, this is how you can manually install it:

1. Note that JabRef itself is a Java program
2. Go to <http://jabref.sourceforge.net/download.php>
3. Download `JabRef.jar`
4. Type in the terminal: `java -jar JabRef.jar`
5. If you want, define the terminal command 'jabref' in your `/.local/bin`

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Maybe, don't start with step 6.



# Citations in Math-Manuscripts

Some general remarks...

Bibtex entries are provided by most of the services that list or host scientific papers. In particular for mathematics it may be worth checking

- ▶ <http://www.ams.org/mathscinet/index.html>
- ▶ <http://www.zentralblatt-math.org/zmath/en/search/>  
( features a “TU” button )
- ▶ <http://www.sciencedirect.com/>
- ▶ Google scholar

Q: How do you do it?

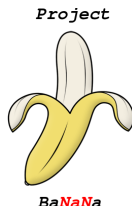
## Further reading

Many information are available online:

- ▶ <http://www.cs.rpi.edu/~tayloj/JABREF.TUTORIAL/>
- ▶ [http://www.youtube.com/watch?v=\\_bdmCi58o74](http://www.youtube.com/watch?v=_bdmCi58o74)
- ▶ [http://keijisaito.info/arc/biblio/en\\_jabref\\_bibtex.htm](http://keijisaito.info/arc/biblio/en_jabref_bibtex.htm)

I will put all example files on:

- ▶ <http://projectbanana.github.io/>



# Project baNaNa will meet again next year...

... with possible topics:

- ▶ Python
- ▶ CUDA/OpenCL
- ▶ Open Foam
- ▶ MPI/OpenMP
- ▶ advanced git
- ▶ high-end Matlab usage

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