# Introduction to BIBTEX: reference management in X=IATEX

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# What is BIBTEX?

- ▶ BibTEX is a reference management system based on TEX
- it is also a format with which you write a bibliographical database
- so it is both a software (bibtex engine) and a format (BIBTEX)
- to use it, you need
  - a .bib file, which contains your bibliographical database
  - a .bst file, which specifies the reference style



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#### How does it work?

- ▶ you first insert your entries in the .bib file
- each entry has a unique cite key (like asimov1951 for Asimov's Foundation)
- in your .tex file, you cite the references in your text using the \cite command and the cite key of the entry you are citing
- you compile using the bibtex engine
- BIBTEX takes care of inserting the citation and the reference list with the appropriate formatting, as specified in the .bst file



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# BIBTEX front-ends

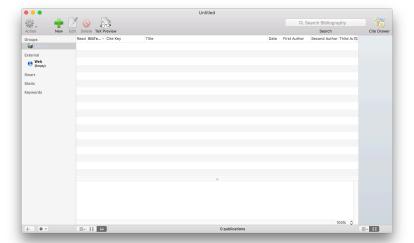
Creating your bibliographical database (.bib) can be facilitated using a front-end:

- BibDesk (Mac only)
- JabRef
- Mendeley Desktop
- EndNote
- Zotero



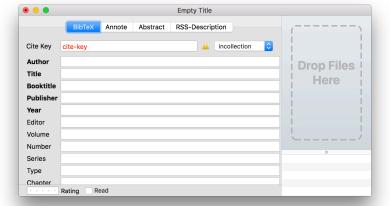
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#### **BibDesk**

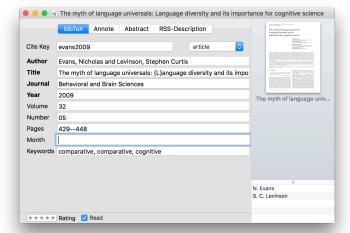


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#### **BibDesk**



#### **BibDesk**



## The natbib package

Load the natbib package in the preamble, with the option numbers for IEEE like style:

```
1 \usepackage[numbers]{natbib}
```

Set the bibliography style (plainnat) and .bib file at the end of your document, before \end{document}

```
1 \bibliographystyle{plainnat}
2 \bibliography{mybib}
```

## The natbib package

Call the natbib package in the preamble, with the option numbers for Harvard like style:

```
1 \usepackage{natbib}
```

Set the bibliography style (dcu) and .bib file at the end of your document, before \end{document}

```
1 \bibliographystyle{dcu}
2 \bibliography{mybib}
```

# The natbib package

According to **Darwin (1859)**, we have a common ancestor with [...]. However, it is more complex **(Asimov 1951)**. As **Darwin (1859, p. 33–37)** said: "This is the ultimate proof that [..]."



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### The natbib package

In your document, you can use the \cite commands:

```
According to \citet{darwin1859}, we have a
common ancestor with [...]. However, it is
more complex \citep{asimov1951}.

As \citet[p. 33--37]{darwin1859} said: ''This
is the ultimate proof that [..].''
```

The output depends on the chosen style. A Reference section will be automatically added at the end of your compiled document (PDF).

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#### Style: numeric

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#### Style: author-year

```
\citet{jon90}
                                     Jones et al. (1990)
\citet[chap.~2]{jon90}
                                     Jones et al. (1990, chap. 2)
\citep{jon90}
                                     (Jones et al., 1990)
\citep[chap.~2]{jon90}
                                     (Jones et al., 1990, chap. 2)
\citep[see][]{jon90}
                                     (see Jones et al., 1990)
\citep[see] [chap.~2] {jon90}
                                     (see Jones et al., 1990, chap. 2)
\citet*{jon90}
                                     Jones, Baker, and Williams (1990)
\citep*{jon90}
                                     (Jones, Baker, and Williams, 1990)
```

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