Introduction to LaTeX for EndNote Users

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Contents:

1. What is LaTeX?
2. Features and Components of LaTeX
3. Differences between EndNote and LaTeX
4. What is JabRef?
5. What is LyX?
6. Using LaTeX
7. Exporting EndNote library to JabRef
8. Importing EndNote library to JabRef
9. How to save the database as bib format in JabRef?
10. How to insert citations in LyX?
11. Additional resources for Latex
Introduction to LaTeX for EndNote Users

This document will help EndNote users who are looking for an introduction to LaTeX bibliographic management software. To take full advantage of this document, users need to be familiar with using EndNote bibliographic management software.

1. What is LaTeX?

LaTeX is a bundle of software used by researchers to prepare their research documents. LaTeX is...

- Document preparation system
- High-quality typesetting
- Used for medium-to-large technical or scientific documents
- Not a word processor

2. Features & Components of LaTeX

LaTeX can be used for:

- Typesetting journal articles, technical reports, books, and slide presentations
- Managing large documents containing sectioning, cross-references, tables and figures
- Typesetting of complex mathematical formulas
- Automatic generation of bibliographies and indexes
- Multi-lingual typesetting

Components of LaTex:

LaTeX is a bundle of software and it consists of different components for different functions:

- **JabRef** – Database to store and manage the references. (See Item 5)
- **LyX** - Document processor to insert citations and references (See Item 6)

3. Differences between EndNote and LaTeX:

<table>
<thead>
<tr>
<th></th>
<th>EndNote</th>
<th>LaTeX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storing References</td>
<td>EndNote Library</td>
<td>JabRef – (BibTex)</td>
</tr>
<tr>
<td>Citing References</td>
<td>Cite-WYW for Microsoft Word</td>
<td>LyX</td>
</tr>
</tbody>
</table>

Back to [Contents](#).
4. What is JabRef?

JabRef is the program where references are stored. In EndNote the references are stored in an EndNote Library. In JabRef the references are stored as a database in the JabRef program.

- A reference management software that uses BibTex as its native format
- Provides an easy-to-use interface to import from online databases & manage and search BibTex files.

4.1. Where to get JabRef:

JabRef is an open source software and is available for downloading from http://jabref.sourceforge.net

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5. What is LyX?

Lyx is similar a word processor and can be compared to the Microsoft Word with EndNote add-in for adding in-text citations and references. LyX is a text editor replacing Microsoft Word in the LaTex world to add in-text citations and references.

- Document processor
- Combines the power and flexibility of TeX/ LaTeX
- Creation of mathematical content
- Creation of reference list and index.

5.1. Where to get LyX?

LyX is an open source document processor and and is available for downloading from http://www.lyx.org/Download

Back to Contents.
6. Using LaTeX and EndNote:

Figure 1 shows the typical process when a user uses EndNote to manage references as well as to insert citations into Word Documents as they write their thesis and dissertations. The benefit of this is that you can export references easily from different sources but without the high quality type setting features of LaTeX.

Figure 2 shows the process when a user uses LaTeX bundle of software to manage references as well as to insert citations into LyX. The down side of this process is that many databases cannot export references seamlessly to JabRef. The benefit of this process is that user can continue to keep the high quality type setting features of LaTeX

Experienced EndNote users can combine the advantage of seamlessly exporting references from different sources, especially library databases to EndNote Library while leveraging on the quality type setting features of LaTeX to write their thesis and dissertations. The process can be seen in Figure 3.

**Figure 1: Process of using EndNote to manage references and insert citations**

Reference Sources

User references can be easily managed and exported to EndNote Library from:
- Library Databases
- Library OneSearch
- Google Scholar etc

Reference Manager

EndNote Library
EndNote Web

Cite-While-You-Write

Word Processor

Office Word Document

Some researchers feel that MS word does not handle equations adequately.

**Figure 2: Process of using LaTeX to manage references and insert citations**

User references cannot be easily exported to JabRef from:
- Library Databases
- Library OneSearch
- Google Scholar etc

Reference Manager

JabRef

BibTex Keys

Word Processor

LyX

Back to Contents.
7. Exporting EndNote library into a text file to be imported into Jabref

7.1. The EndNote’s export feature to export the EndNote library references is used to export the selected references or the entire library into a text file (RIS - format)

7.2. Select the references in the EndNote library, choose export.
7.3. Save as type – text & choose Output style as Refman (RIS)

Choose Output style as Refman (RIS)

Back to Contents.
8. Importing EndNote library in text (RIS) format into Jabref

The Jabref program’s import option is used to import the text file exported from EndNote. The ‘save database’ option in Jabra is used to save the imported references in JabRef.

8.1. From the JabRef program, choose Import into new database.

8.2. Open the type-text file & choose RIS for files of type
8.3. References are imported to JabRef

9. How to save the database as bib format in JabRef

The imported references in JabRef do not have BibTeX keys. The BibTeX key is the unique identification number or tag for each reference in a JabRef database. The bibtex key is essential for inserting in-text citations.

9.1. Select the references in the JabRef.
9.2. To generate **BibTex key**, choose Tools, Autogenerate BibTex Keys

![Image](image1.png)

9.3. Choose save database as and save the file as bib format

![Image](image2.png)

Back to [Contents](#).
10. Inserting citations in Lyx.

**Connecting JabRef database (imported references) with LyX**

The inserting in-text citation feature will work only if the JabRef database with the references is linked or connected to the text-editor LyX.

The List/TOC – BibTex Bibliography settings in Jabref is used to connect the Jabref database with Lyx.

10.1. Settings to connect the Jabref database with Lyx. Using the Insert menu – List/TOC – BibTex Bibliography open the pop-up window.

10.2. Click **Add** to add the Bibtext database file. For **content** select ‘all cited references’.

Back to **Contents**.
10.3. Browse the required or imported BibTex database.

10.4. The selected BibTex database should appear in the pop up window. Choose the style as unsorted (unsrt).
Inserting in-text citation will work only when the references (jabref database) is linked to the text editor.

Under the **Insert** menu choose **citation**.

Click Add to insert the in-text citation

Back to [Contents](#).
10.5. Citation is inserted

11. **List of some resources for Latex**

   - How to make a compact beautiful PostScript or PDF file from a TeX file
   - [http://www.latex-project.org/](http://www.latex-project.org/)
   - [http://www.ams.org/publications/authors/tex/amslatex](http://www.ams.org/publications/authors/tex/amslatex)
   - [http://www.tex.ac.uk/](http://www.tex.ac.uk/)

Back to [Contents](#).