

BibTeX

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MATH-310 Introduction to Mathematical Modeling

Introduction

BibTeX is an application that runs alongside L^AT_EX to assist the user in compiling bibliographies. It's especially useful if your bibliography is extensive.

To use BibTeX, you need the following files,

- A *bibliographic database file* – this will have a `.bib` extension and is the file containing the bibliographic entries.
- A *bibliographic style file* – this will have a `.bst` extension. You will not need to create this; it will be provided.

Style Options

There are 6 style options that we will be concerned. As a note, most journals provide their own style options to use for submitted papers.

<code>plain.bst</code>	Sorting by author name; Labels are numbers;
<code>alpha.bst</code>	Sorting by labels; Alphanumeric labels;
<code>unsrt.bst</code>	Sorting by order of appearance; Numeric labels
<code>abbrv.bst</code>	much like <code>plain</code> ; Abbreviates first names of authors, journals, months
<code>amspain.bst</code>	AMS version of <code>plain</code>
<code>amsalpha.bst</code>	AMS version of <code>alpha</code>

Getting Started

Suppose you have a `.bib` file (we'll discuss this in a moment), `mybiblio.bib`, and you want to use the `plain` style, then the following lines will go at the end of your document environment.

```
\bibliographystyle{plain}  
\bibliography{mybiblio}
```

Each item in your bibliography file has a *key* which allows us to use `cite` in your document. Then BibTeX will automatically place all cited works into your document's Bibliography.

We may also place non-cited works into your Bibliography by using the `nocite` command in your document.

Example

Consider the example given by the files, `bibEx01.tex` and `bibEx01.bib`

In order to compile these files into the final document, you must

1. Compile `bibEx01.tex`
 - creates the `bibEx01.aux` file;
2. Compile `bibEx01.bib`
 - resolves the references to the bibliography entries;
3. Compile `bibEx01.tex`
 - incorporates bibliography entries into document;
4. Compile `bibEx01.tex`
 - resolves all citations in the document.

Example

Once you have successfully compiled the tex and bib file, complete the following edits:

The original file uses `amsp1ain` for the formatting. Change the formatting to the formats,

- `plain`,
- `alpha`,
- `unsrt`, and
- `abbrv`.

Make note of how each format affects the bibliography in the final document.