

Sample LaTeX Document

Your Name

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1 Introduction

This is a sample LaTeX document that demonstrates various features, including math equations, referencing, figures, and tables. We have used here the `hyperref` package to enable clickability.

2 Body

2.1 Math

LaTeX is great for typesetting math equations. Here's an example of an inline equation: $E = mc^2$, and here's a display equation:

$$\int_0^\infty e^{-x^2} dx = \frac{\sqrt{\pi}}{2} \quad (1)$$

2.2 Referencing

You can reference sections, equations, figures, and tables using labels and the `ref` command. For example, in Section [3](#), we will see how to include figures.

2.3 Citations

For this Math course, we use some materials from [Simon and Blume \(1994\)](#). The book is praised by many researchers as a must-have math book for economists ([Sydsæter et al., 2008](#)).

Please use package `natbib` because it is compatible with the package `hyperref`. To cite text, use `citet{key1}`, to cite with parenthesis, use `citep{key2}`. Make sure the keys match what you declared in the `.bib` file.

At the end of the document, to print the reference list, use the command `\bibliography{bibliography.bib}`. You can choose the style of the document by stating `\bibliographystyle{style}` before printing the bib. There are many styles. Here, we use `apalike` – the most commonly used.

3 Figures

Figures can be included using the `graphicx` package. Below is an example of a figure – the screenshot of a `.bib` file:

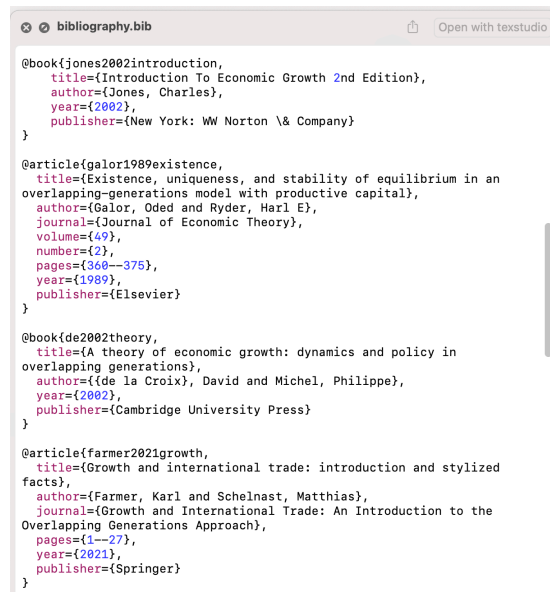


Figure 1: Bibliography format

As shown in Figure 1, you can refer to figures by their label.

4 Tables

Tables can be created using the `tabular` environment. Here's an example:

| Name | Age |
|---------|-----|
| Alice | 25 |
| Bob | 30 |
| Charlie | 28 |

Table 1: Example table

You can reference tables by their label, just like figures. Table 1 shows an example table.

5 Conclusion

This concludes our sample LaTeX document. It demonstrates how to include math equations, referencing, figures, and tables. Happy LaTeXing!

References

- Simon, C. P. and Blume, L. (1994). *Mathematics for economists*. Norton New York.
- Sydsæter, K., Hammond, P., Seierstad, A., and Strom, A. (2008). *Further mathematics for economic analysis*. Pearson education.