

Bibliography Test Document

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June 26, 2025

1 Introduction

This document tests bibliography functionality with texMini. We cite some famous works here to ensure the bibliography system works correctly.

LaTeX was developed by Lamport (1994), building on T_EX by Knuth (1984). The modern bibliography system uses biblatex and biber (Lehman et al. 2022).

2 Mathematics

The Pythagorean theorem states that $a^2 + b^2 = c^2$ for right triangles. This fundamental result appears in many mathematical contexts (Euclid c. 300 BCE).

3 Modern Typography

Digital typography has evolved significantly since the early days of computer typesetting (Knuth 1979). Modern systems provide sophisticated control over layout and typography.

4 Citation Examples

Here are various citation styles:

- Textcite: Lamport (1994) developed LaTeX.
- Parencite: LaTeX is a document preparation system (Lamport 1994).
- Multiple citations: These works (Knuth 1984; Lamport 1994; Lehman et al. 2022) are foundational.
- Cite: According to Knuth 1984, T_EX is a typesetting system.

5 Conclusion

If this document compiles successfully with a properly formatted bibliography, then texMini's bibliography support is working correctly. The bibliography requires multiple compilation passes:

1. First LaTeX run - processes citations, creates .aux file
2. Biber run - processes bibliography database, creates .bbl file

3. Second LaTeX run - incorporates bibliography into document
4. Third LaTeX run - resolves cross-references

Each step creates intermediate files that must be preserved until the entire process completes.

References

- Euclid (c. 300 BCE). *Elements*. Translated by T.L. Heath. Cambridge: Cambridge University Press.
- Knuth, Donald E. (1979). *TeX and Metafont: New Directions in Typesetting*. Bedford, MA: American Mathematical Society and Digital Press.
- (1984). *The TeXbook*. Vol. A. Reading, MA: Addison-Wesley.
- Lamport, Leslie (1994). *LaTeX: A Document Preparation System*. 2nd. Reading, MA: Addison-Wesley.
- Lehman, Philipp et al. (2022). *The biblalex Package*. Version 3.18. URL: <https://ctan.org/pkg/biblalex>.