

LaTeX Workshop Spring 2024 Exercises

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ideIntroduction This document contains a series of exercises designed to build your understanding and skills in using LaTeX for academic writing. Each exercise focuses on a different bit of LaTeX, from basic formatting to advanced document customization. Work through these exercises at your own pace and explore the flexibility and power of LaTeX.

1 Exercise 1: Complex Table Formatting

Create a table in LaTeX that uses multi-row and multi-column cells. Experiment with different alignments for the text within the cells. Reflect on how changing these elements affects the table's readability and appearance.

2 Exercise 2: Wrap Text Around Images

Use the `wrapfig` package to insert an image into your document that allows text to wrap around it. Adjust the alignment and positioning to observe how the text flows around the image.

3 Exercise 3: Implementing Numbered References

Implement the `\cite` command to add references to your document. Create a simple bibliography section and link several references within your text using a numbered style.

4 Exercise 4: Document Organization Best Practices

Organize a small LaTeX document into multiple files. Use the `\input` or `\include` command to integrate them into a main document. Discuss the advantages of this approach.

5 Exercise 5: Common Mistakes and Troubleshooting

Compile a list of common LaTeX errors and their solutions. Share your findings in a document section, including how you resolved any issues you encountered.

6 Exercise 6: Advanced Headers and Footers

Customize the headers and footers of a document using the `fancyhdr` package. Experiment with adding custom text, page numbers, and chapter/section titles.

7 Exercise 7: Using Version Control with LaTeX

Create a simple LaTeX project and use a version control system (e.g., Git) to track changes. Explore features such as branching and merging, and document your experience.

8 Exercise 8: Accessibility and Sharing

Research and document ways to make LaTeX documents more accessible. Additionally, explore the best methods for sharing LaTeX documents with peers who do not use LaTeX.

9 Exercise 9: Custom Fonts and Multilingual Support

Experiment with using custom fonts in a LaTeX document and add a section in a non-English language. Adjust document settings to support proper typesetting and font encoding.