MarkTeX Example Document

This is a sample document demonstrating MarkTeX's ability to convert Markdown with Mermaid diagrams to beautiful PDFs.

Introduction

MarkTeX combines the simplicity of Markdown with the power of LaTeX and the clarity of Mermaid diagrams. This makes it perfect for:

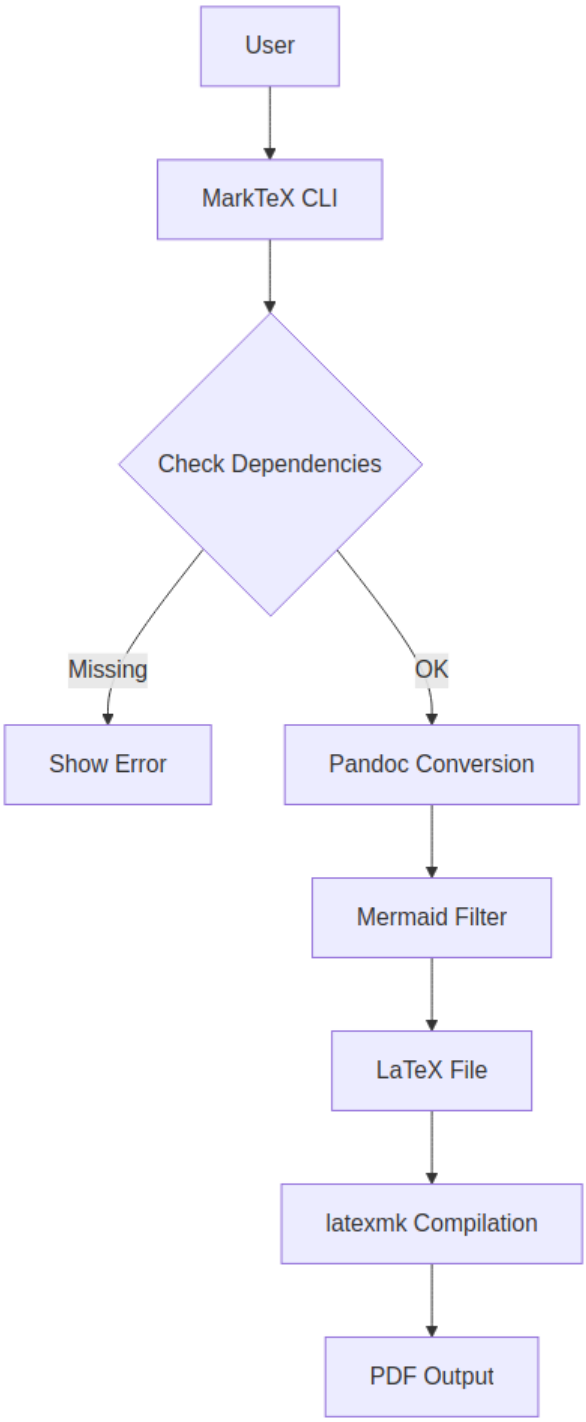
- Technical documentation
- Research reports
- Project proposals
- Academic papers
- System design documents

Workflow Diagram

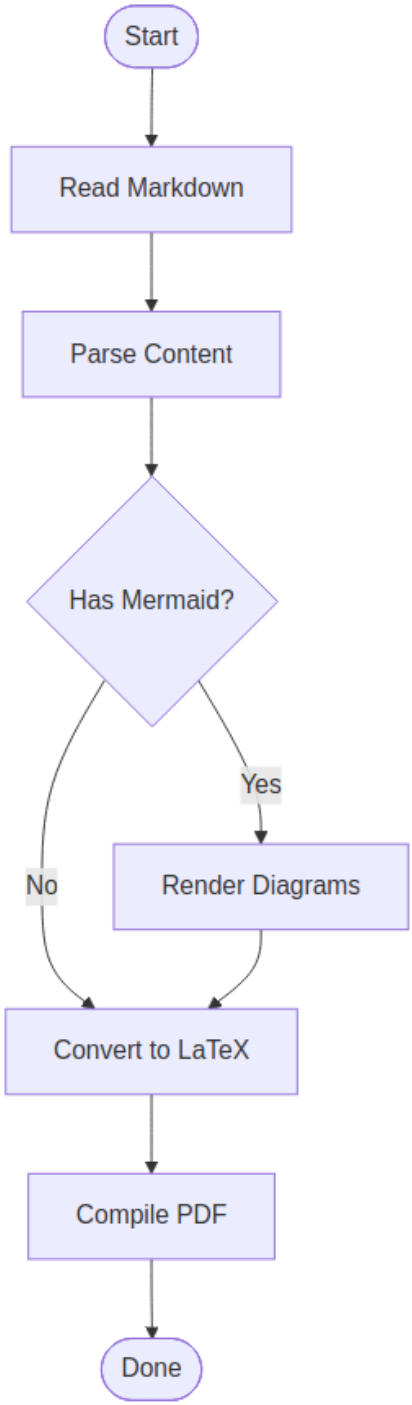
Here's a simple workflow showing how MarkTeX processes your documents:

System Architecture

Complex systems are easier to understand with diagrams:


User
MarkTeX CLI
Check Dependencies
Missing
OK
Show Error
Pandoc Conversion
Mermaid Filter
LaTeX File
latexmk Compilation
PDF Output

Process Flow



Code Example

MarkTeX also handles code blocks beautifully:

```
def convert_markdown_to_pdf(input_file):
    """Convert a Markdown file to PDF using MarkTeX."""
    subprocess.run([
        "marktex",
        input_file
    ])
    print(f"  Converted {input_file} to PDF!")
```

Features

Text Formatting

You can use **bold**, *italic*, `inline code`, and even ~~strikethrough~~ text.

Lists

Ordered lists:

1. First item
2. Second item
3. Third item

Unordered lists:

- Feature A
- Feature B
  - Sub-feature B.1
  - Sub-feature B.2
- Feature C

Tables

Feature	Markdown	LaTeX	PDF
Text			
Images			
Diagrams			
Math			

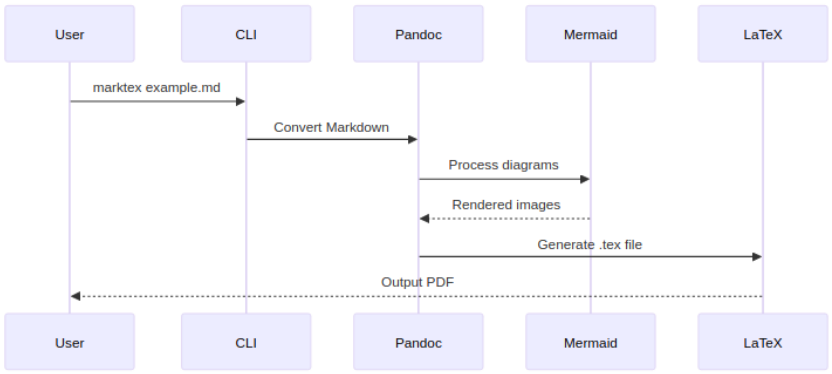
Mathematics

Inline math: $E = mc^2$

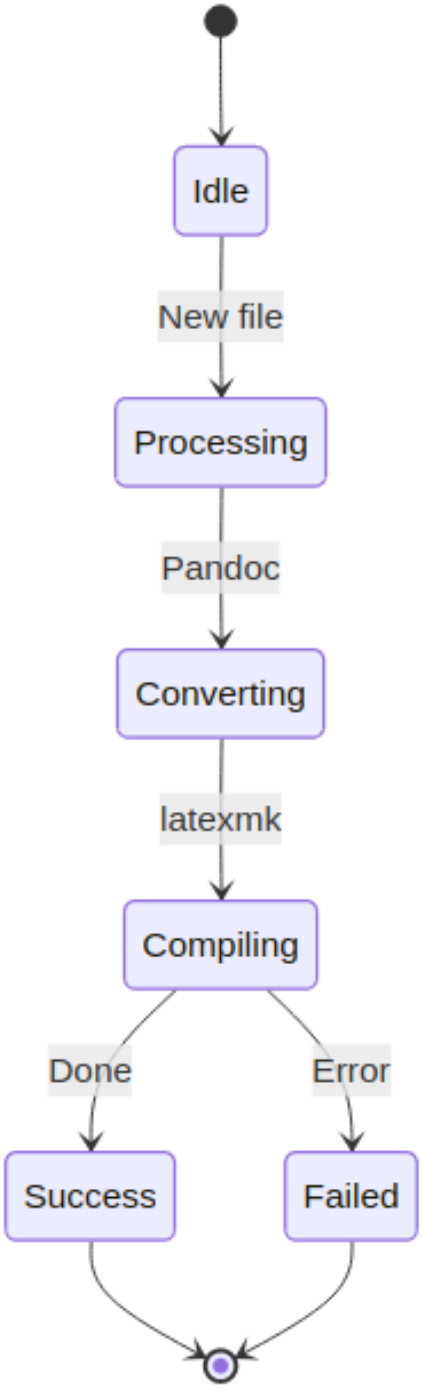
Block math:

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

Sequence Diagram



State Diagram



Conclusion

MarkTeX makes it easy to create professional documents with diagrams. Simply write your content in Markdown, add Mermaid diagrams where needed, and run:

```
marktex example.md
```

That's it! You'll get a beautiful PDF with all your diagrams rendered perfectly.

Learn More

- GitHub: https://github.com/yourusername/marktex
- Documentation: See README.md
- License: MIT

Generated with MarkTeX - Markdown to PDF made simple.