Md2pdf Skill Test Document

This document tests all features of the **md2pdf** skill.

1. Math with KaTeX

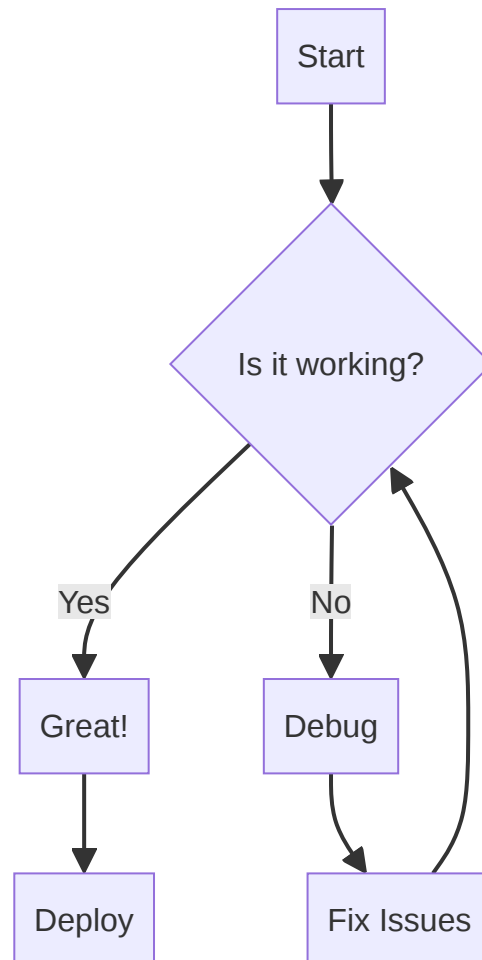Inline math: $E = mc^2$

Block math:

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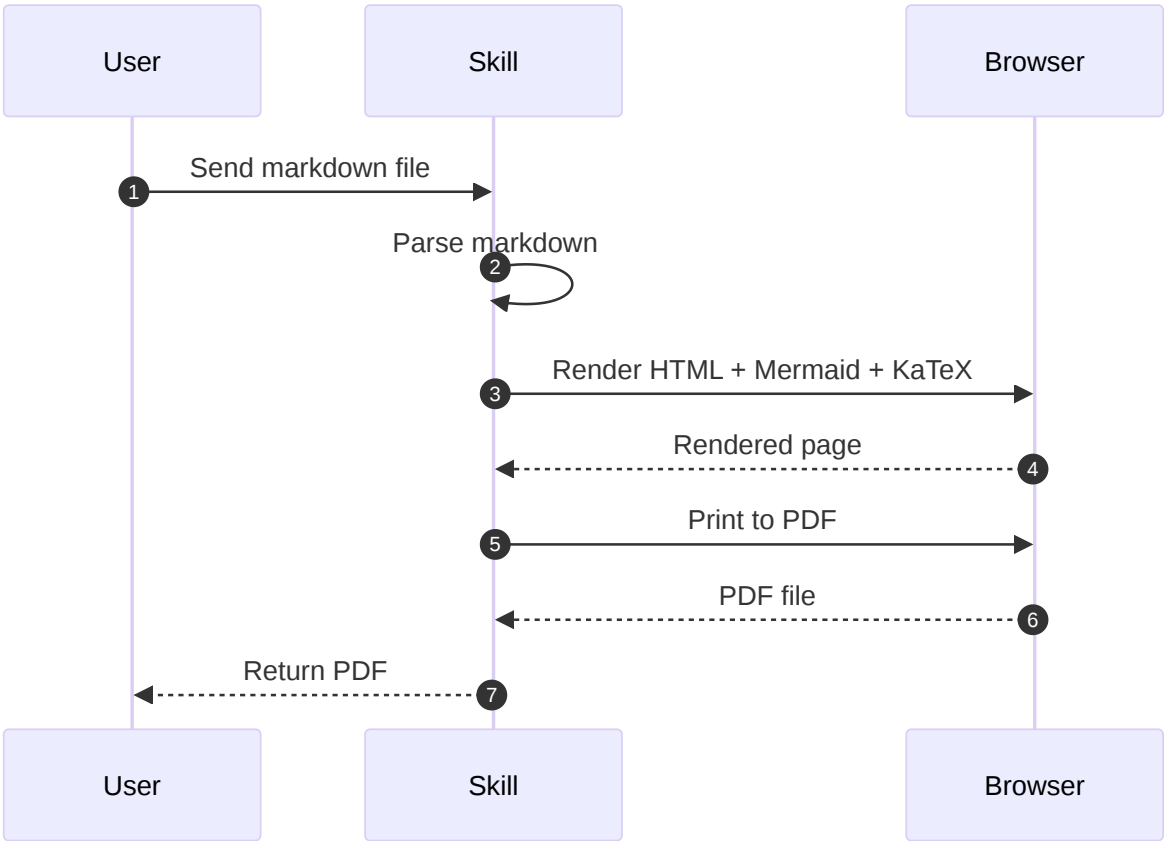
Matrix example:

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} ax + by \\ cx + dy \end{pmatrix}$$

2. Mermaid Diagrams

Flowchart

```mermaid
flowchart TD
    Start --> Decision{Is it working?}
    Decision -->|Yes| Great[Great!]
    Decision -->|No| Debug[Debug]
    Great --> Deploy[Deploy]
    Debug --> Fix[Fix Issues]
    Fix --> Decision
```

Start

Is it working?

Yes

No

Great!

Debug

Deploy

Fix Issues

Sequence Diagram

| User | Skill | | Browser |

1 → Send markdown file (User → Skill)

2 Parse markdown (Skill self-loop)

3 → Render HTML + Mermaid + KaTeX (Skill → Browser)

4 ← Rendered page (Browser → Skill)

5 → Print to PDF (Skill → Browser)

6 ← PDF file (Browser → Skill)

7 ← Return PDF (Skill → User)

3. Code Blocks

4. Tables

Feature	Status	Notes
Markdown parsing	✅	GitHub-flavored
Mermaid diagrams	✅	Auto-rendered
KaTeX math	✅	Inline & block
Syntax highlight	✅	Code blocks
Page numbers	✅	Footer

5. Blockquotes

> "The best way to predict the future is to invent it." — Alan Kay

6. Task Lists

- ☑ Create skill structure
- ☑ Implement markdown parsing
- ☑ Add Mermaid support
- ☑ Add KaTeX support
- ☑ Style with CSS
- ☑ Generate PDF with Puppeteer

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