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# Showcase: convpdf Features

Welcome to the **Pro Showcase**. This document demonstrates the advanced capabilities of `convpdf`, using a custom configuration, professional styling, and modern web technologies.

## Professional Typography

We use a clean, modern font stack with precise control over headers, spacing, and readability.

"PDF generation should not be a compromise. It should be a direct reflection of your design intent."

## Data Presentation

Tables are styled with a professional aesthetic, including header highlights and alternating row colors.

Feature	Supported	Description
Table of Contents	✓	Automatic generation from headers
MathJax	✓	High-quality LaTeX rendering
Mermaid	✓	Diagrams and charts via script injection
Custom Templates	✓	Full control over the HTML wrapper
Header/Footer	✓	PDF-native headers and footers

## Mathematical Equations

convpdf leverages MathJax for beautiful mathematical typesetting, supporting both inline expressions and complex display blocks.

### Field Theory & Physics

The interaction between matter and light is described by **Maxwell's Equations**, which can be expressed in differential form as:

$$\begin{aligned}\nabla \cdot \mathbf{E} &= \frac{\rho}{\epsilon_0} \\ \nabla \cdot \mathbf{B} &= 0 \\ \nabla \times \mathbf{E} &= -\frac{\partial \mathbf{B}}{\partial t} \\ \nabla \times \mathbf{B} &= \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t}\end{aligned}$$

### Mathematical Analysis

Testing the limits of typesetting with complex fractions and integrals:

The value of the Gaussian integral  $\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$  is fundamental to probability theory. More complex relationships, such as the **Riemann Zeta**

**Function**, showcase symbol depth:

$$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} = \prod_{p \text{ prime}} \frac{1}{1 - p^{-s}}, \quad \operatorname{Re}(s) > 1$$

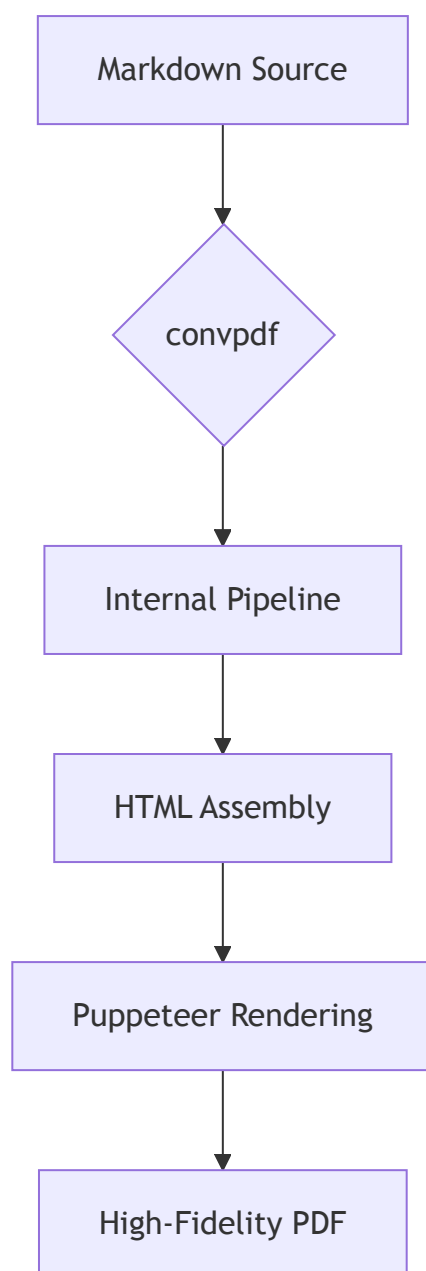
And the beautiful **Euler's Identity**:

$$e^{i\pi} + 1 = 0$$

## Technical Diagrams

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With Mermaid.js support, you can embed diagrams directly in your markdown.



## Advanced Styling

We can use custom HTML classes if needed, although raw HTML in Markdown should be used sparingly.

**Pro Tip:** You can use `.convpdfrc.yml` to share common styles and templates across all your documents in a project.

## Code Highlighting

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Syntax highlighting is preserved and styled to match the overall theme.

```
import { Renderer } from 'convpdf';

const renderer = new Renderer({
  toc: true,
  math: true,
  mermaid: true
});

await renderer.generatePdf('# Hello World', 'output.pdf');
```

## Conclusion

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This showcase demonstrates how `convpdf` bridges the gap between the simplicity of Markdown and the professional requirements of PDF documents.