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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:

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\varepsilon_0}$$
$$\nabla \cdot \mathbf{B} = 0$$
$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$
$$\nabla \times \mathbf{B} = \mu_0\mathbf{J} + \mu_0\varepsilon_0\frac{\partial \mathbf{E}}{\partial t}$$

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:

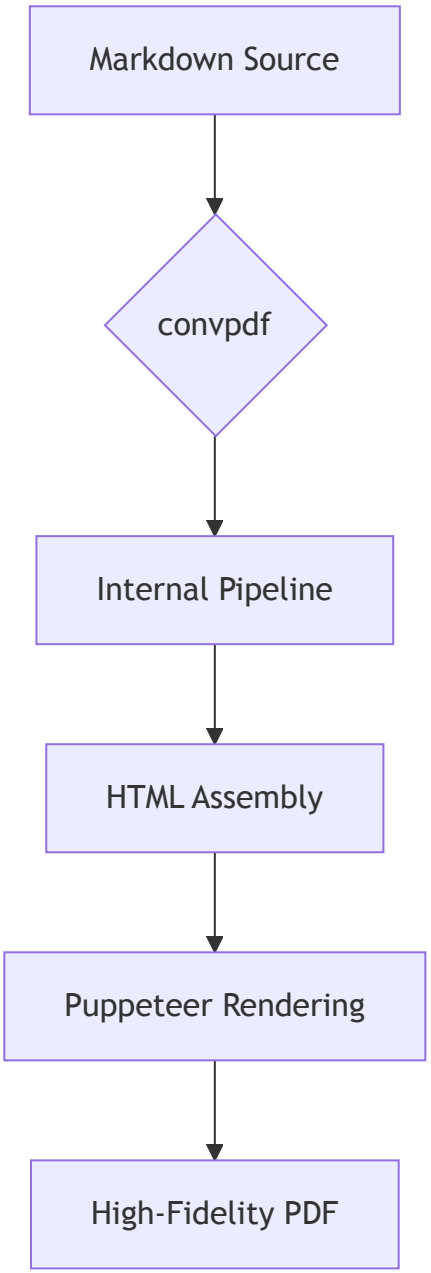
$$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} = \prod_{p \text{ prime}} \frac{1}{1 - p^{-s}}, \quad \text{Re}(s) > 1$$

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

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

Technical Diagrams

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

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

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