Hello world!

I'm a test Markdown document.

Here's some bold text and *here's some italic text.* `This is inline code.`

Markdown Tables

First Name	Last Name	Location	Allegiance
Mance	Rayder	North of the Wall	Wildlings
Margaery	Tyrell	The Reach	House Tyrell
Danerys	Targaryen	Meereen	House Targaryen
Tyrion	Lannister	King's Landing	House Lannister

Code blocks

```
This code
is in
a code block.
```

Here's a syntax-highlighted code block:

```python
#!/usr/bin/env python3

import sys

if __name__ == '__main__':
    print('This is highlighted Python code!')
    sys.exit(0)
```

Page Layout with LaTeX Commands

Here's a forced page break.

LaTeX support

This document supports inline LaTeX!

Here's the proof: $\frac{n!}{k!(n-k)!} = \binom{n}{k}$

Creating a footnote is easy.[1]

Here's an equation:

$$x = a_0 + \cfrac{1}{a_1 + \cfrac{1}{a_2 + \cfrac{1}{a_3 + \cfrac{1}{a_4}}}}$$

Here are some numbered equations:

$$f(x) = (x + a)(x + b) \tag{1}$$

$$5^2 - 5 = 20 \tag{2}$$

$$a = bq + r \tag{3}$$

Here's some multi-line math stuff:

$$u(x) = \begin{cases} \exp x & \text{if } x \geq 0 \\ 1 & \text{if } x < 0 \end{cases}$$

$$\begin{aligned} f(x) &= (x + a)(x + b) \\ &= x^2 + (a + b)x + ab \end{aligned}$$

---

[1] An example footnote.