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MD Preview PDF Comprehensive Test Document	Test Suite	2024-12-31	A4	top	bottom
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# MD Preview PDF Comprehensive Test Document

This document tests all markdown features supported by the MD Preview PDF converter.

- MD Preview PDF Comprehensive Test Document
  - 1. Basic Typography
    - 1.1 Text Formatting
    - 1.2 Headings
  - 2. Lists
    - 2.1 Unordered Lists
    - 2.2 Ordered Lists
    - 2.3 Task Lists
  - 3. Code Blocks
    - 3.1 JavaScript
    - 3.2 Python
    - 3.3 TypeScript
    - 3.4 SQL
    - 3.5 Shell/Bash
  - 4. Tables
    - 4.1 Simple Table
    - 4.2 Aligned Table
  - 5. Mermaid Diagrams
    - 5.1 Flowchart
    - 5.2 Sequence Diagram
    - 5.3 Class Diagram
    - 5.4 State Diagram
    - 5.5 Entity Relationship Diagram

- 5.6 Pie Chart
- 5.7 Gantt Chart
- 5.8 Git Graph
- 6. Math Equations (KaTeX)
  - 6.1 Inline Math
  - 6.2 Block Math
- 7. Blockquotes
- 8. Links and Images
  - 8.1 Links
  - 8.2 Images
- 9. Custom Containers
- 10. Horizontal Rules
- 11. Special Characters and Emoji
  - 11.1 Emoji
  - 11.2 HTML Entities
- 12. Keyboard Keys
- 13. Subscript and Superscript
- 14. Abbreviations
- 15. Mixed Content Example
- Conclusion

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## 1. Basic Typography

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### 1.1 Text Formatting

This is a paragraph with **bold text**, *italic text*, **bold and italic**, and ~~strikethrough text~~.

You can also use `inline code` for technical terms.

This is a sentence with a footnote<sup>[1]</sup>.

### 1.2 Headings

The document supports all heading levels from H1 to H6:

# Heading 1

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## Heading 2

---

### Heading 3

#### Heading 4

##### Heading 5

###### Heading 6

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## 2. Lists

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### 2.1 Unordered Lists

- Item 1
- Item 2
  - Nested item 2.1
  - Nested item 2.2
    - Deep nested item
- Item 3

### 2.2 Ordered Lists

1. First item
2. Second item
  - i. Nested ordered item
  - ii. Another nested item
3. Third item

### 2.3 Task Lists

- Completed task
  - Another completed task
  - Incomplete task
  - Another incomplete task
-

### 3. Code Blocks

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#### 3.1 JavaScript

```
// JavaScript example with syntax highlighting
class Calculator {
  constructor() {
    this.result = 0;
  }

  add(num) {
    this.result += num;
    return this;
  }

  subtract(num) {
    this.result -= num;
    return this;
  }

  multiply(num) {
    this.result *= num;
    return this;
  }

  getResult() {
    return this.result;
  }
}

const calc = new Calculator();
console.log(calc.add(10).multiply(2).subtract(5).getResult()); // 15
```

## 3.2 Python

```
# Python example with syntax highlighting
from typing import List, Optional
from dataclasses import dataclass

@dataclass
class Person:
    name: str
    age: int
    email: Optional[str] = None

def greet_people(people: List[Person]) -> None:
    """Greet a list of people."""
    for person in people:
        greeting = f"Hello, {person.name}!"
        if person.email:
            greeting += f" Your email is {person.email}"
        print(greeting)

# Usage
people = [
    Person("Alice", 30, "alice@example.com"),
    Person("Bob", 25),
]
greet_people(people)
```

### 3.3 TypeScript

```
// TypeScript example
interface User {
  id: number;
  name: string;
  email: string;
  role: 'admin' | 'user' | 'guest';
}

async function fetchUser(id: number): Promise<User> {
  const response = await fetch(`api/users/${id}`);
  if (!response.ok) {
    throw new Error(`Failed to fetch user: ${response.statusText}`);
  }
  return response.json();
}

// Generic function
function filterByProperty<T, K extends keyof T>(
  items: T[],
  property: K,
  value: T[K]
): T[] {
  return items.filter(item => item[property] === value);
}
```

### 3.4 SQL

```
-- SQL example
SELECT
  u.id,
  u.name,
  u.email,
  COUNT(o.id) AS order_count,
  SUM(o.total) AS total_spent
FROM users u
LEFT JOIN orders o ON u.id = o.user_id
WHERE u.created_at >= '2024-01-01'
GROUP BY u.id, u.name, u.email
HAVING COUNT(o.id) > 5
ORDER BY total_spent DESC
LIMIT 10;
```

## 3.5 Shell/Bash

```
#!/bin/bash
# Shell script example

# Variables
PROJECT_NAME="md-preview-pdf"
VERSION="1.0.0"

# Functions
log() {
    echo "[$(date '+%Y-%m-%d %H:%M:%S')] $1"
}

# Main script
log "Starting $PROJECT_NAME v$VERSION"

# Check if npm is installed
if ! command -v npm &> /dev/null; then
    log "ERROR: npm is not installed"
    exit 1
fi

# Install dependencies
npm install

# Build project
npm run build

log "Build complete!"
```

## 4. Tables

### 4.1 Simple Table

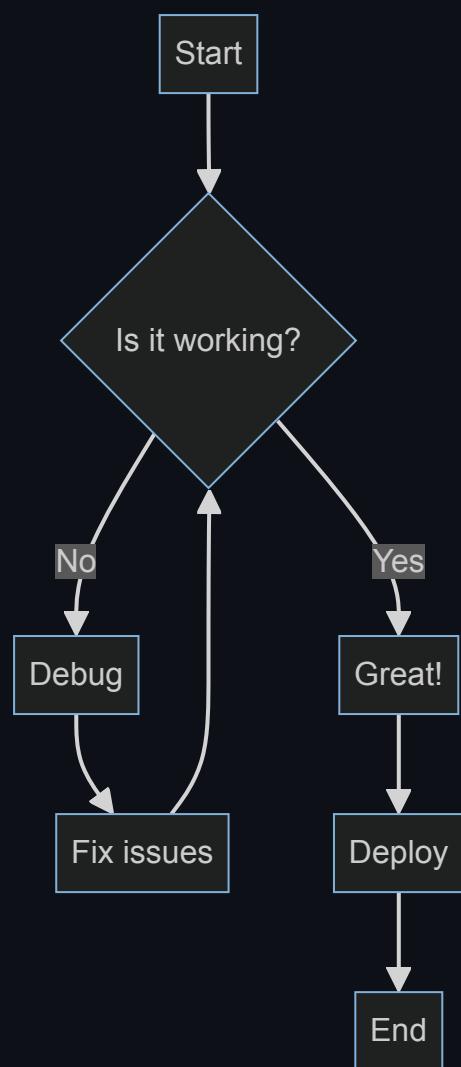
Feature	Status	Notes
Markdown parsing	✓	Full GFM support
Syntax highlighting	✓	150+ languages
Mermaid diagrams	✓	All diagram types
Math equations	✓	KaTeX
Custom themes	✓	GitHub, VS Code

## 4.2 Aligned Table

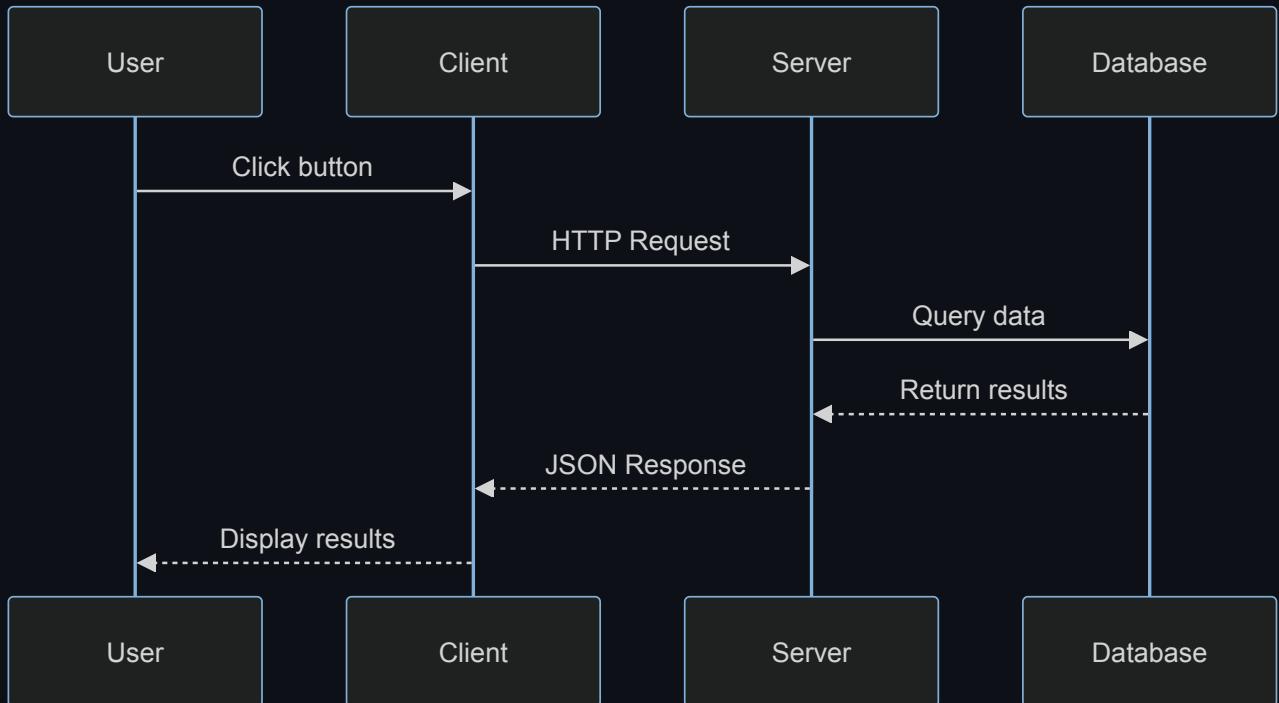
Left Aligned	Center Aligned	Right Aligned
Row 1 Col 1	Row 1 Col 2	Row 1 Col 3
Row 2 Col 1	Row 2 Col 2	Row 2 Col 3
Row 3 Col 1	Row 3 Col 2	Row 3 Col 3

## 5. Mermaid Diagrams

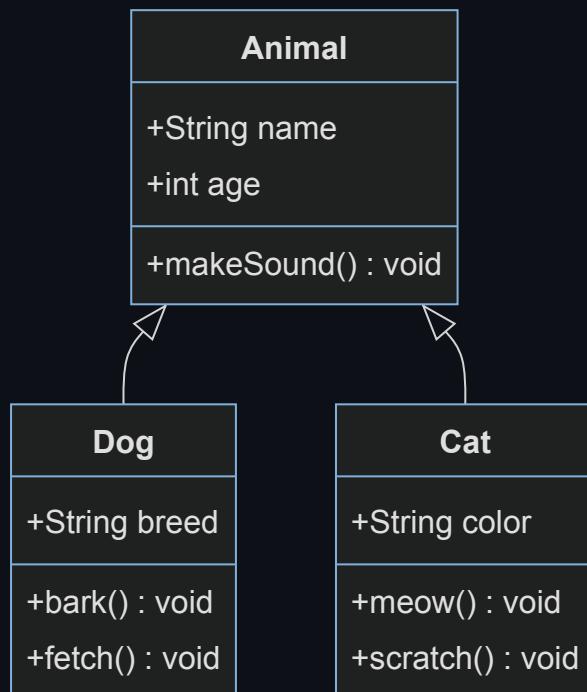
### 5.1 Flowchart



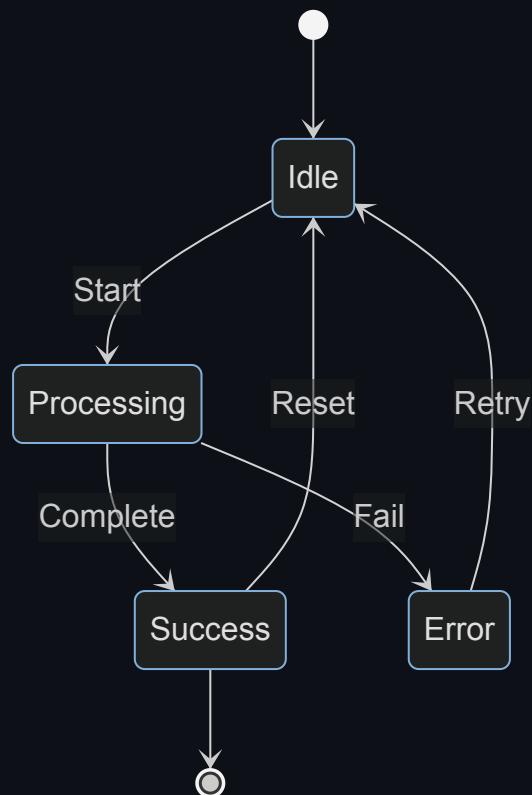
## 5.2 Sequence Diagram



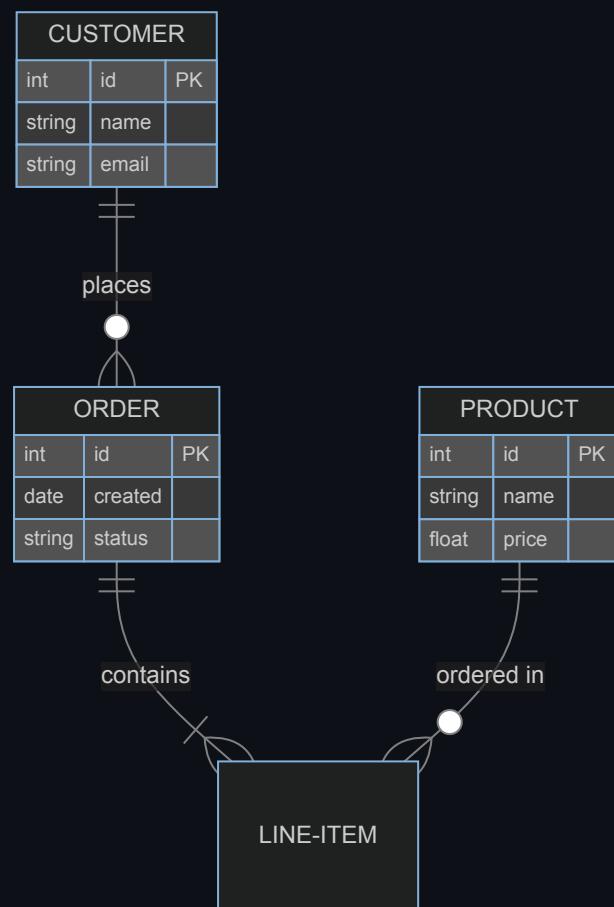
## 5.3 Class Diagram



## 5.4 State Diagram

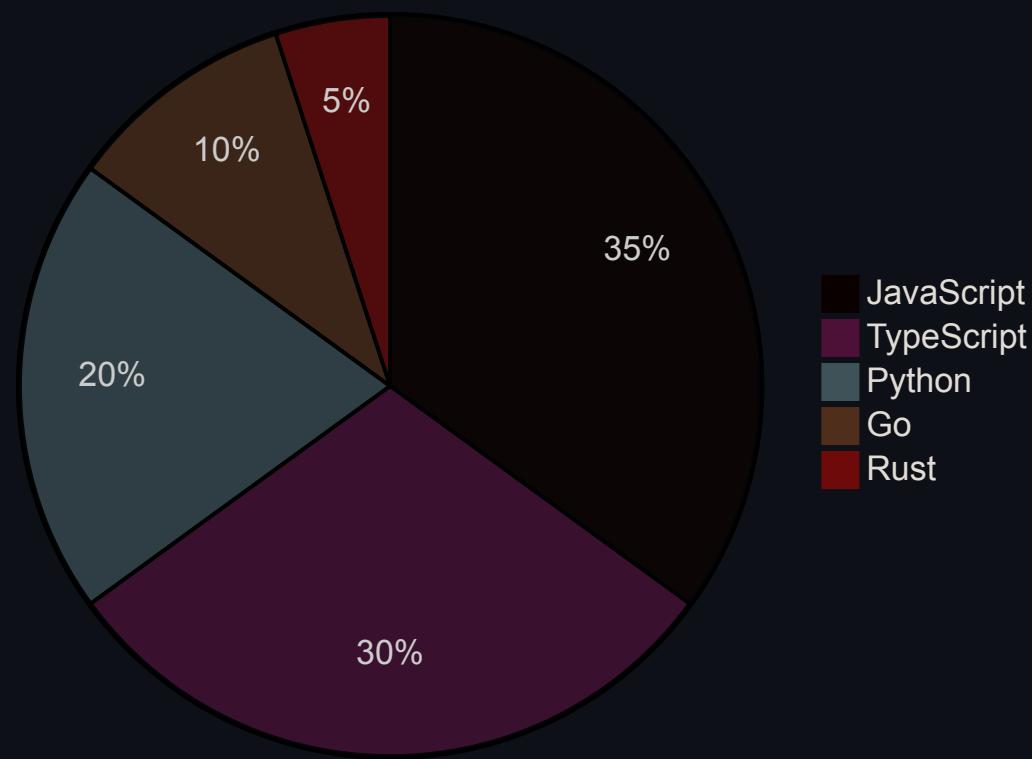


## 5.5 Entity Relationship Diagram

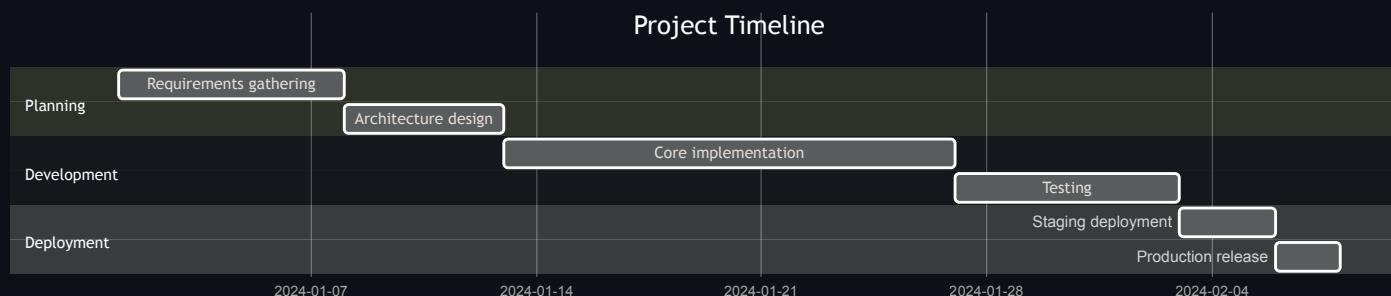


## 5.6 Pie Chart

### Programming Languages Used



## 5.7 Gantt Chart



## 5.8 Git Graph



## 6. Math Equations (KaTeX)

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### 6.1 Inline Math

The famous equation  $E = mc^2$  demonstrates the relationship between mass and energy.

The quadratic formula is  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ .

### 6.2 Block Math

The integral of a function:

$$\int_a^b f(x) dx = F(b) - F(a)$$

Matrix notation:

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

Sum notation:

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$

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## 7. Blockquotes

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This is a simple blockquote.

**Multi-paragraph blockquote:**

This is the first paragraph.

This is the second paragraph with *italic* and **bold** text.

Nested blockquotes:

This is nested inside.

And this is even deeper.

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## 8. Links and Images

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### 8.1 Links

- External link
- Link with title
- <https://example.com> (autolink)
- Email: test@example.com

### 8.2 Images

Images can be included with captions:



## 9. Custom Containers

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### Pro Tip

This is a tip container. Use it for helpful hints and best practices.

### Warning

This is a warning container. Use it to alert users about potential issues.

### Danger

This is a danger container. Use it for critical warnings.

### Information

This is an info container. Use it for additional information.

### Note

This is a note container. Use it for side notes.

► Click to expand

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## 10. Horizontal Rules

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## 11. Special Characters and Emoji

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### 11.1 Emoji

Emoji support using shortcodes:

- 😊 Happy
- 🚀 Launch
- ⭐ Star
- ❤️ Love
- 👍 Approved
- ⚠️ Warning
- 💡 Idea
- 📝 Note

### 11.2 HTML Entities

- Copyright: ©
  - Registered: ®
  - Trademark: ™
  - Em dash: —
  - En dash: –
  - Less than: <
  - Greater than: >
  - Ampersand: &
- 

## 12. Keyboard Keys

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Press **Ctrl** + **C** to copy.

Press **Ctrl** + **V** to paste.

Press **Cmd** + **Shift** + **P** to open command palette.

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## 13. Subscript and Superscript

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- Water formula:  $H_2O$
  - $E = mc^2$
  - CO<sub>2</sub> emissions
- 

## 14. Abbreviations

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The HTML specification is maintained by the W3C.

\*[HTML]: Hyper Text Markup Language

\*[W3C]: World Wide Web Consortium

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## 15. Mixed Content Example

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Here's a complex example combining multiple features:

**Important Note:** When using the `Calculator` class below, make sure to handle the following:

1. Initialize properly
2. Chain methods correctly
3. Handle errors

### Warning

Division by zero will throw an error!

```
class AdvancedCalculator extends Calculator {  
    divide(num) {  
        if (num === 0) {  
            throw new Error('Division by zero');  
        }  
        this.result /= num;  
        return this;  
    }  
}
```

The result can be expressed as:  $result = \frac{a+b}{c}$

# Conclusion

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This test document covers:

Category	Features Tested
Typography	Headers, bold, italic, strikethrough
Lists	Ordered, unordered, task lists
Code	Syntax highlighting for multiple languages
Tables	Simple and aligned tables
Diagrams	8 types of Mermaid diagrams
Math	Inline and block KaTeX equations
Other	Blockquotes, containers, emoji, etc.

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1. This is the footnote content. ↵