example\_document.md 9/15/2025

# Example Document with Mermaid Diagrams

This is an example markdown document containing various Mermaid diagrams that can be converted to PNG using the MermaidToPNG converter.

#### Flowchart Example

```
graph TD
    A[Start] --> B{Decision}
    B -->|Yes| C[Process 1]
    B -->|No| D[Process 2]
    C --> E[End]
    D --> E
```

#### Sequence Diagram Example

```
sequenceDiagram

participant User

participant System

participant Database

User->>System: Login Request

System->>Database: Validate Credentials

Database-->>System: Validation Result

System-->>User: Login Response
```

#### Class Diagram Example

```
classDiagram
  class Animal {
     +String name
     +int age
     +speak()
}

class Dog {
     +String breed
     +bark()
}

class Cat {
     +int lives
     +meow()
}
```

example\_document.md 9/15/2025

```
Animal <|-- Dog
Animal <|-- Cat
```

#### Gantt Chart Example

```
gantt

title Project Timeline
dateFormat YYYY-MM-DD
section Development
Design :active, des1, 2025-01-01, 30d
Implementation :des2, after des1, 45d
Testing :des3, after des2, 30d
section Deployment
Production :crit, dep1, 2025-03-15, 15d
```

#### Pie Chart Example

```
pie title Programming Language Usage
"Python" : 45
"JavaScript" : 30
"Java" : 15
"Other" : 10
```

### State Diagram Example

```
stateDiagram-v2
[*] --> Still
Still --> [*]

Still --> Moving
Moving --> Still
Moving --> Crash
Crash --> [*]
```

#### Complex Flow Example

```
graph LR
   A[Start] --> B{Input Validation}
   B -->|Valid| C[Process Data]
   B -->|Invalid| D[Show Error]
   C --> E{Data Analysis}
   E -->|Success| F[Generate Report]
   E -->|Failure| G[Log Error]
   F --> H[End]
```

example\_document.md 9/15/2025

```
D --> H
G --> H
```

## **Usage Instructions**

To convert these diagrams to PNG, run:

```
# Using Python script (requires Node.js)
python mermaid_to_png_converter.py example_document.md

# Using standalone executable
./mermaid_to_png_converter example_document.md
```

The tool will create an example\_document\_diagrams/ directory containing:

- .mmd files with the extracted Mermaid code
- .png files with the generated images

Each diagram will be numbered sequentially (diagram\_1, diagram\_2, etc.).