

Mermaid extension for Python-Markdown

using Mermaid-CLI

Hideyuki KATO

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1.

pypi
v0.2.0
license
MIT
python
3.9 | 3.10 | 3.11 | 3.12 | 3.13

Mermaid extension for [Python-Markdown](#) using [Mermaid-CLI](#).

This extension converts Mermaid diagram code blocks into Base64 encoded [data: URI](#). This enables PDF generation with tools like [MkDocs to PDF](#) / [WeasyPrint](#) without requiring client-side JavaScript.

1.1 Install

```
pip install markdown-mermaid-cli
```

1.2 Requirements

1.2.1 Mermaid CLI

Chrome or Chromium is required to run Mermaid-CLI.

```
npm install @mermaid-js/mermaid-cli
```

or

```
npm install --global @mermaid-js/mermaid-cli
```

1.3 Usage

- code block start with ````mermaid`
- code block end with `````

options:

```
format=[svg|png] {img attribute}="value" {cli option}="value"
```

- format (optional): Output image format (defaults to svg)
- img attribute (optional): alt, width, height, class, id, style, title
- cli option (optional): theme, width, height, backgroundColor, svgId, scale (refer to `mmdc -h`)

1.3.1 MkDocs Integration

```
# mkdocs.yml
markdown_extensions:
  - markdown_mermaid_cli
```

1.3.2 Pelican Integration

```
# pelicanconf.py
MARKDOWN = {
    'extension_configs': {
        'markdown.extensions.codehilite': {'css_class': 'highlight'},
        'markdown.extensions.extra': {},
        'markdown_mermaid_cli': {},          # Add this
    },
    'output_format': 'html5',
}
```

1.3.3 Python code

```
import markdown
from markdown_mermaid_cli import MermaidExtension

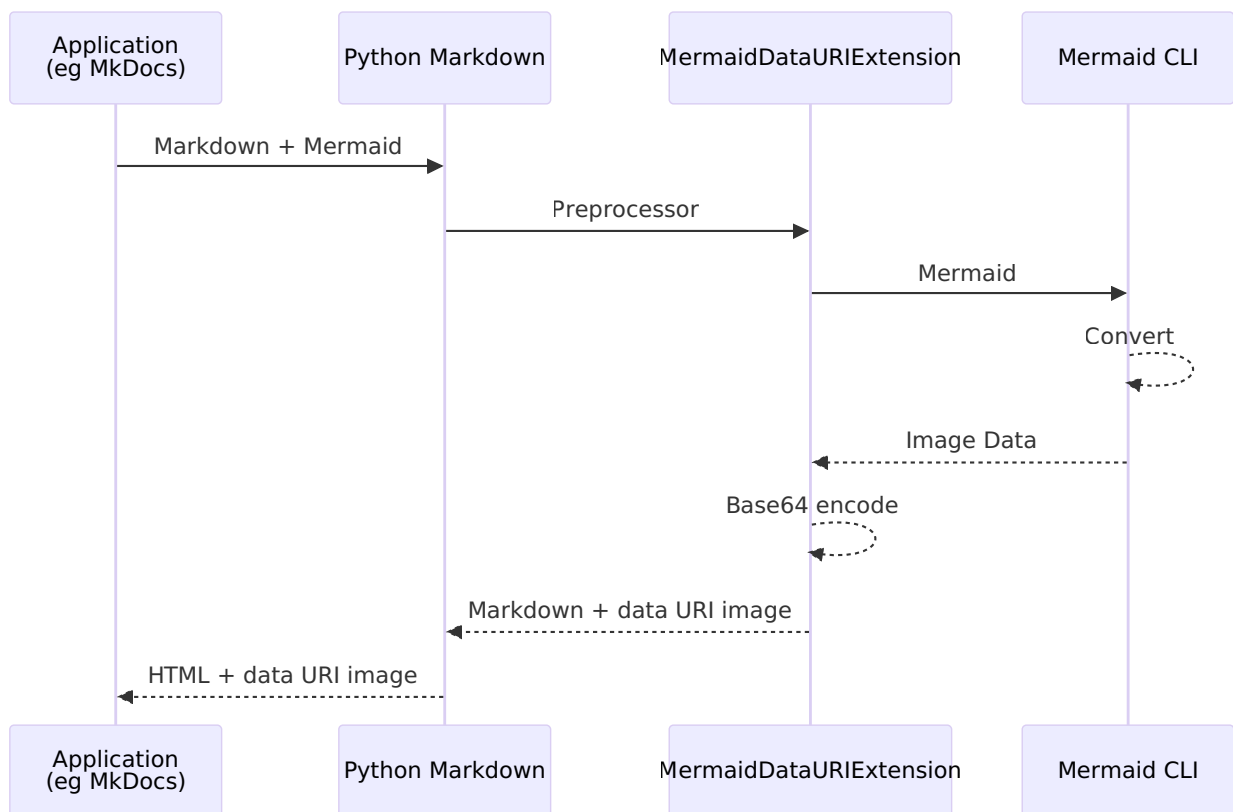
markdown_text = """mermaid
sequenceDiagram
    participant Alice
    participant Bob
    Bob->>Alice: Hi Alice
    Alice->>Bob: Hi Bob
..."""

html_output = markdown.markdown(
    markdown_text, extensions=[MermaidExtension()]
)

print(html_output)
```

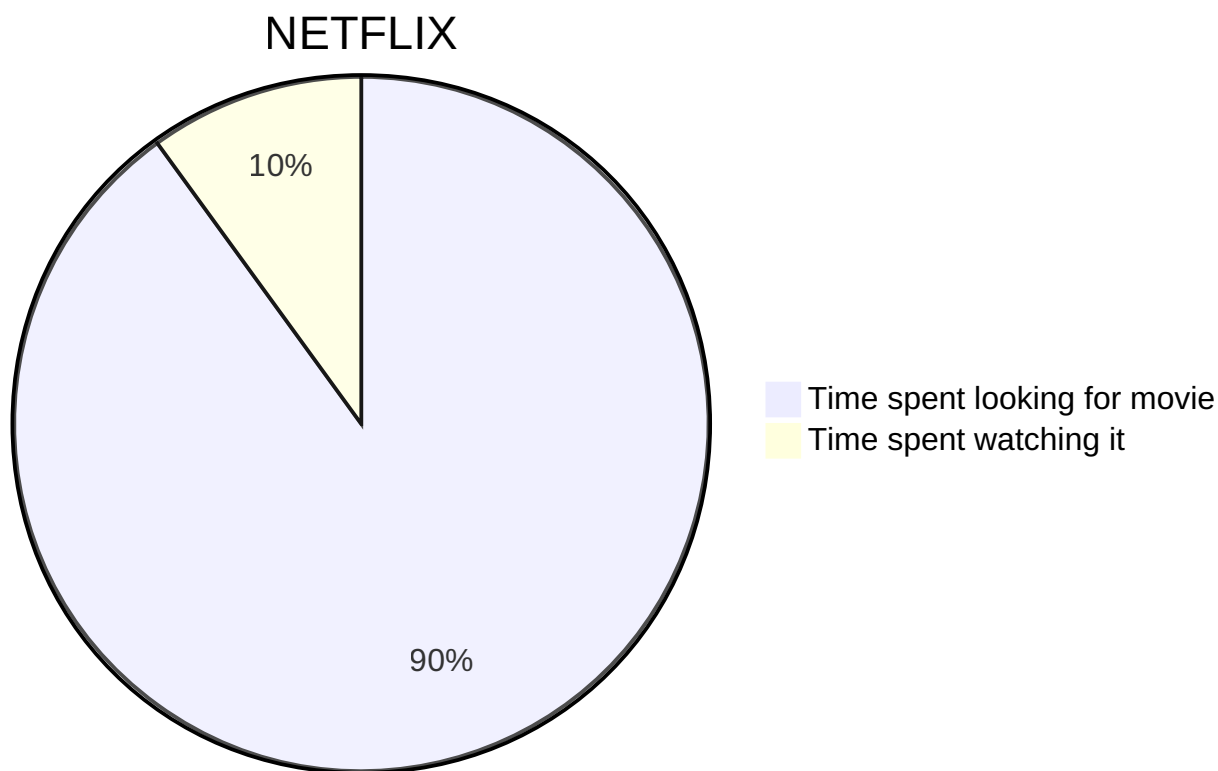
```
<p></p>
```

1.4 Process flow

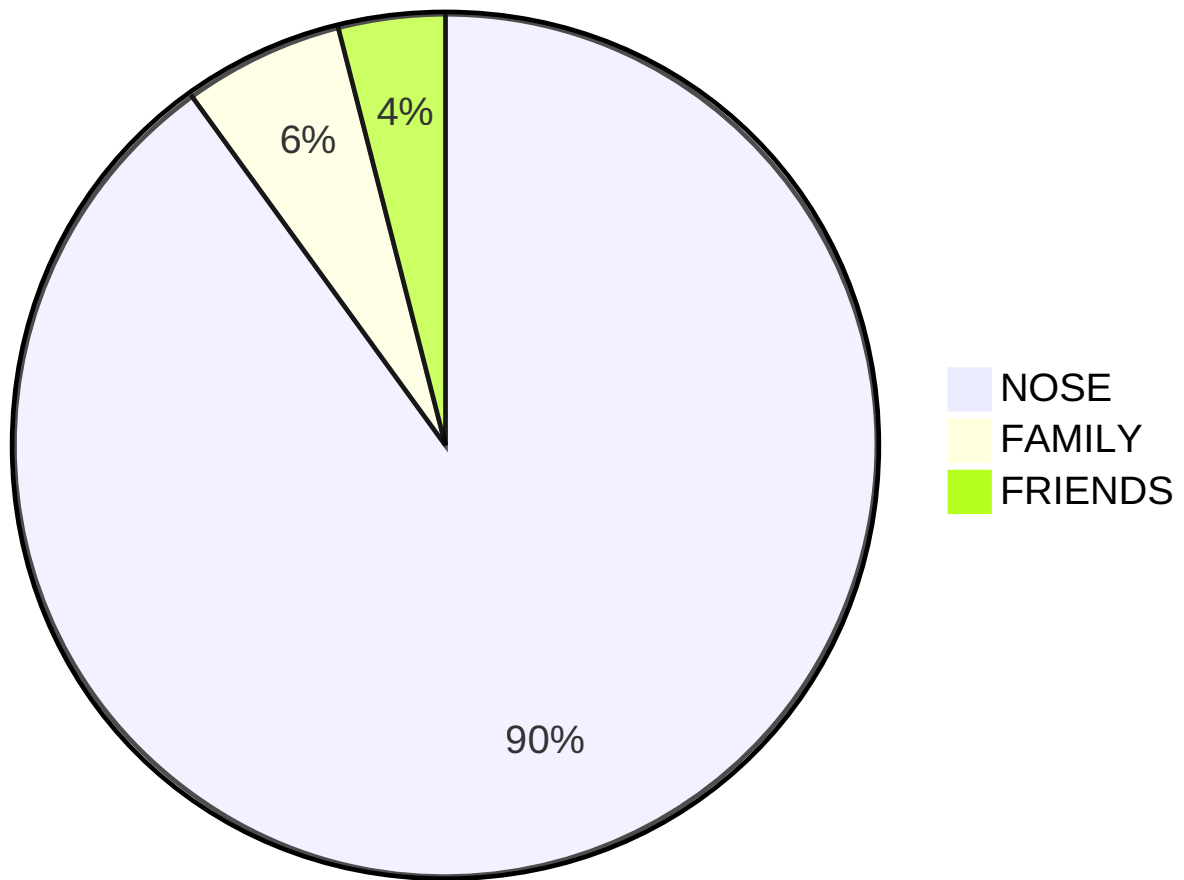


2. Mermaid Examples

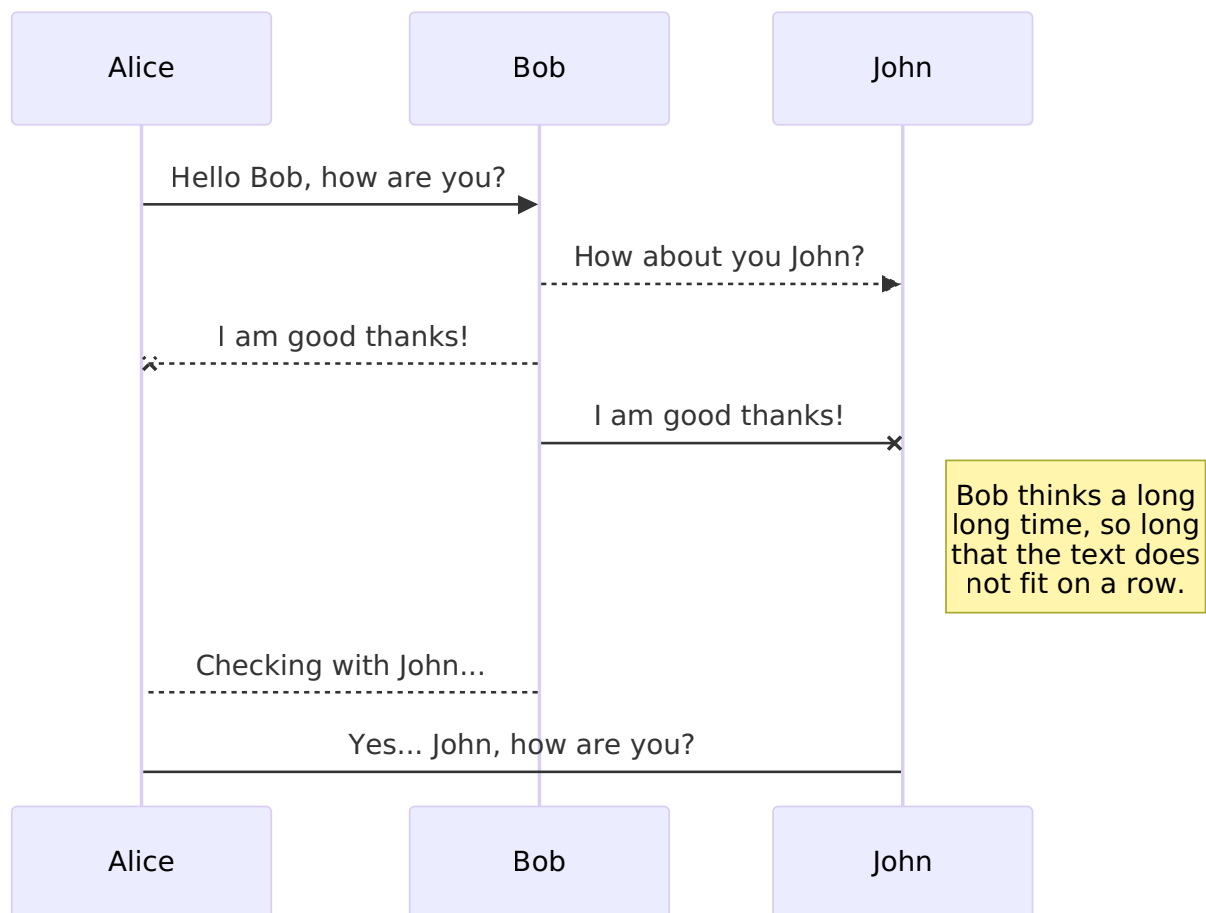
2.1 Basic Pie Chart



What Voldemort doesn't have?



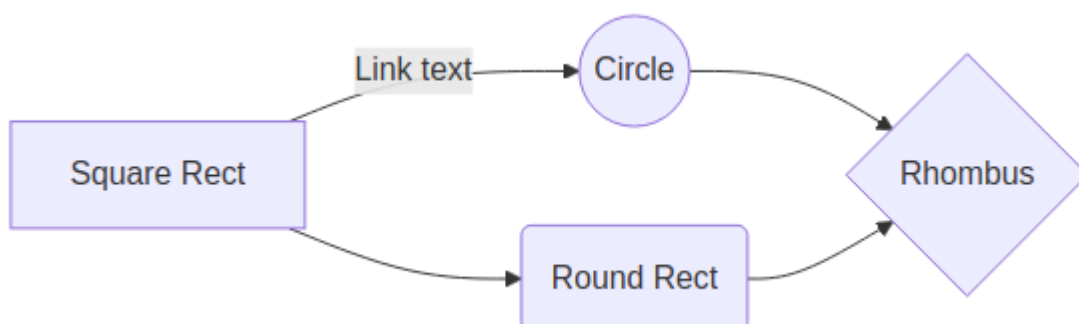
2.2 Basic sequence diagram



2.3 Basic flowchart

Warning

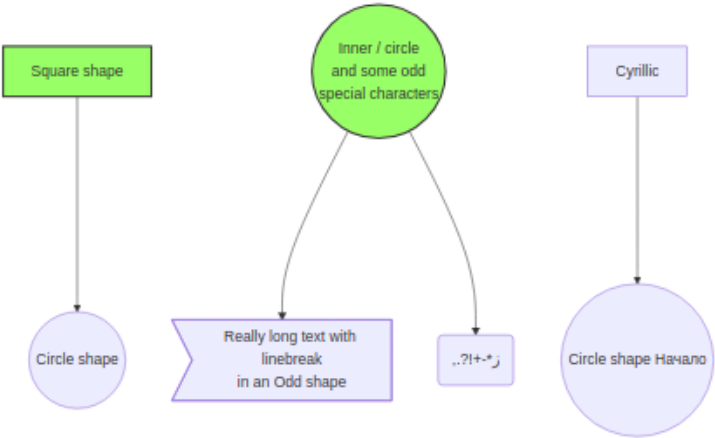
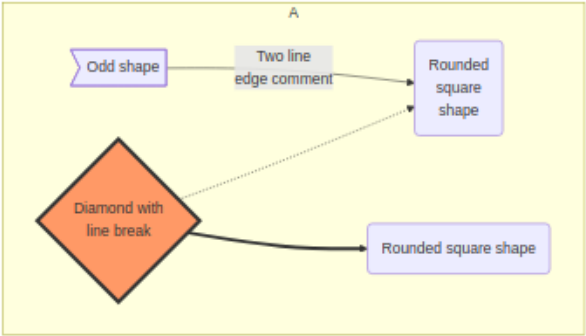
When generating PDFs, text within the graph syntax doesn't get output in WeasyPrint. However, it does appear when using Playwright.



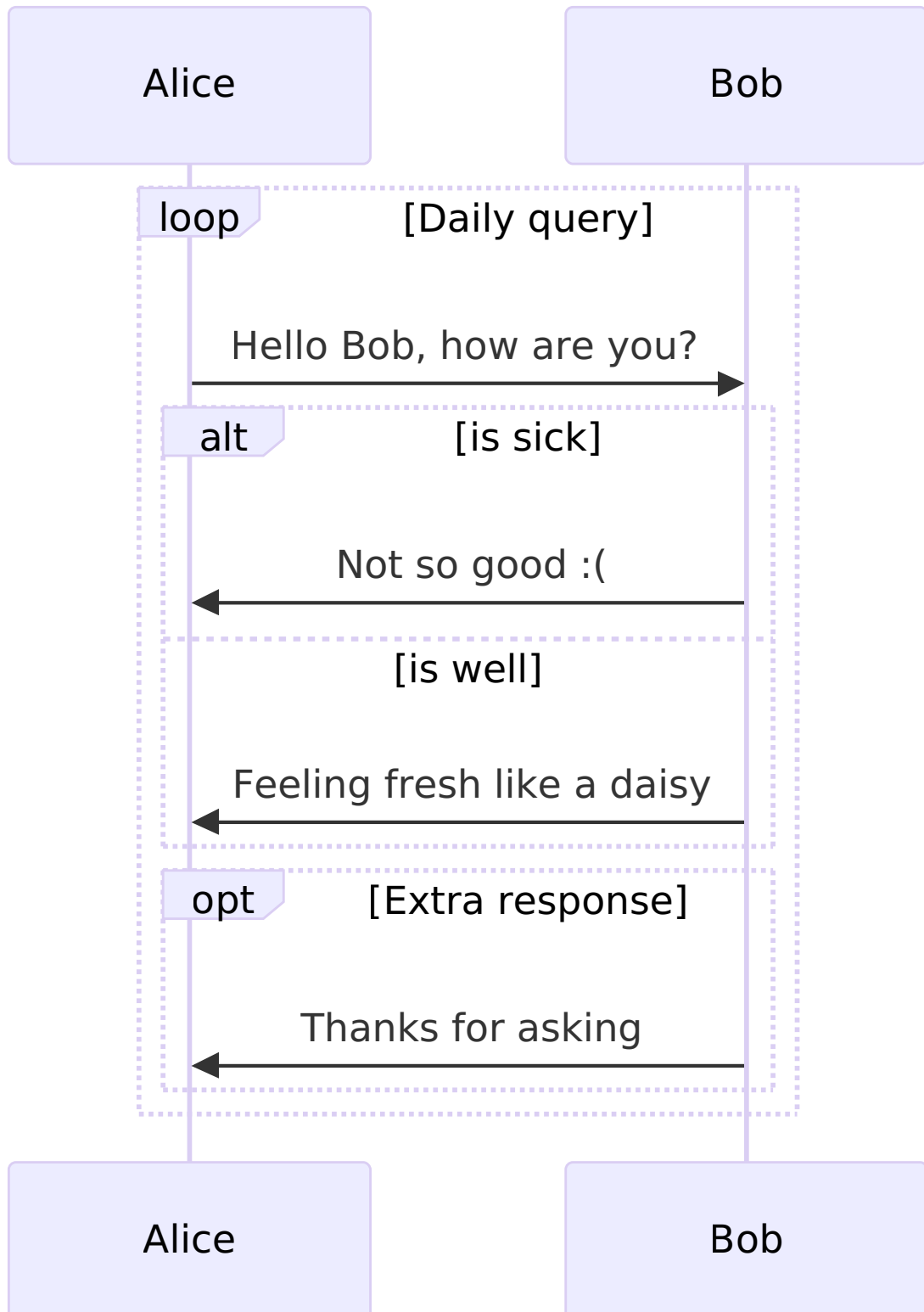
2.4 Larger flowchart with some styling

Warning

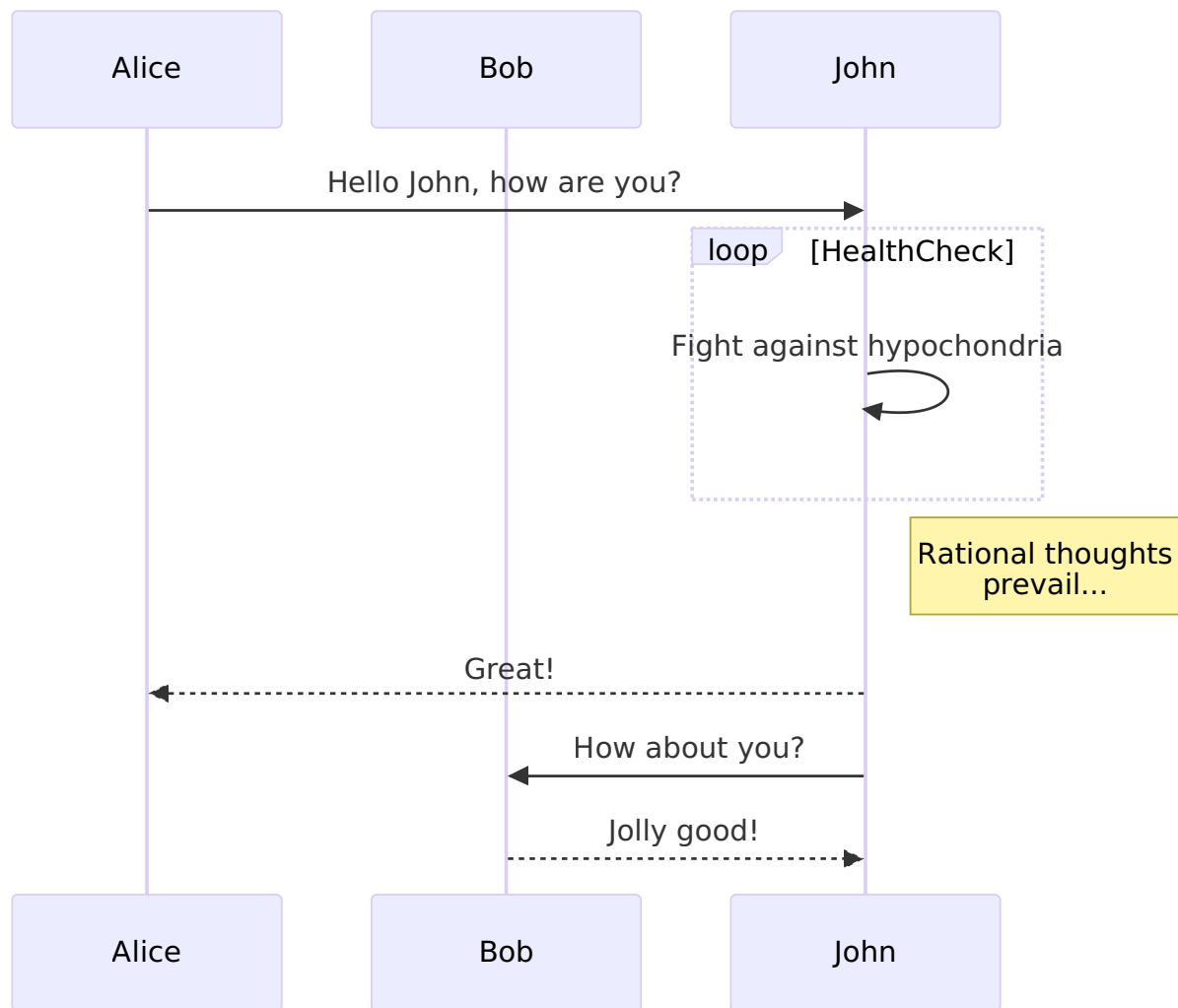
When generating PDFs, text within the graph syntax doesn't get output in WeasyPrint. However, it does appear when using Playwright.



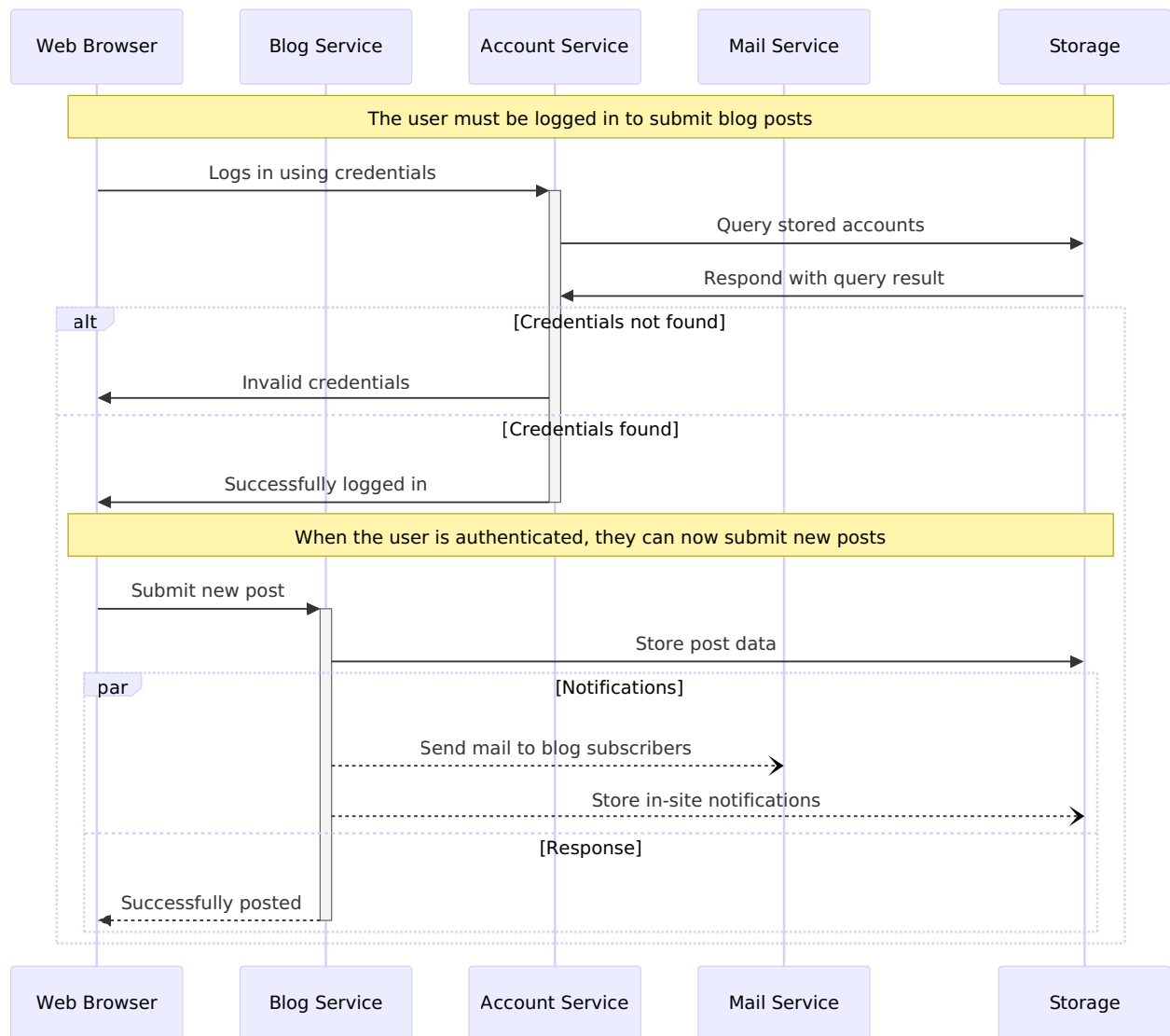
2.5 SequenceDiagram: Loops, alt and opt



2.6 SequenceDiagram: Message to self in loop



2.7 Sequence Diagram: Blogging app service communication



2.8 A commit flow diagram.

