

# Introduction to + MkDocs

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09 January 2020



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- Markdown
- GitHub Flavored Markdown
- Typora
- Pandoc
- Mkdocs



# Markdown

- Lightweight markup language
- Can be converted to many formats



# GitHub Flavored Markdown

# Markdown Editor

- GitHub Gist
- [Stackedit.io](#)

# Headers

```
# This is an h1 tag
```

```
## This is an h2 tag
```

```
##### This is an h6 tag
```

**This is an h1 tag**

**This is an h2 tag**

**This is an h6 tag**

# Emphasis

*\*This will be italic\**

*\_This will also be italic\_*

**\*\*This will be bold\*\***

**\_\_This will also be bold\_\_**

***\_You can combine them\_***



*This will be italic This will also be italic*  
**This will be bold This will also be bold**  
*You **can** combine them*

# Unordered Lists

```
* Item 1  
* Item 2  
  * Item 2a  
  * Item 2b
```

- Item 1
- Item 2
  - Item 2a
  - Item 2b

# Ordered Lists

1. Item 1
2. Item 2
3. Item 3
  - i. Item 3a
  - ii. Item 3b

1. Item 1
2. Item 2
3. Item 3
  - i. item 3a
  - ii. item 3b

# Links

`http://github.com`

`[GitHub](http://github.com)`

<http://github.com>  
GitHub

# Images

![SUTD Logo]

(<https://www.sutd.edu.sg/assets/sutd/img/logo-white.png>)





SINGAPORE UNIVERSITY OF  
TECHNOLOGY AND DESIGN

# Tables

```
First Header | Second Header
-----|-----
Content from cell 1 | Content from cell 2
Content in the first column | Content in the second column
```

| First Header                | Second Header                |
|-----------------------------|------------------------------|
| Content from cell 1         | Content from cell 2          |
| Content in the first column | Content in the second column |

# Activity 1 (10 mins)

- Make a to-do list with 3 categories
  1. To do
  2. In progress
  3. Done

#### To do

1. Pray for good fortune

- Temple
- Bell curve god

##### In progress

1. Catching up on `**_SLEEP_**`

##### Done

1. School

## To do

1. Pray for good fortune
  - Temple
  - Bell curve god

## In progress

1. Catching up on ***SLEEP***

## Done

1. School

# Inline code

I think you should use an `<addr>` element here instead.

I think you should use an `<addr>` element here instead.



# Syntax highlighting

```
```javascript
function fancyAlert(arg) {
  if(arg) {
    $.facebox({div: '#foo'})
  }
}
```

```
```python
def foo():
    if not bar:
        return True
```
```

# Blockquotes

As Kanye West said:

> We're living the future so the present is our past.

As Kanye West said:

■ We're living the future so the present is our past.

**HTML**



**Works with HTML.**



# Typora

<http://typora.io/>

# Inline Math

The identity matrix is  $\left[\begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array}\right]$ .

$$E = mc^2$$

The identity matrix is  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ .

$$e = mc^2$$

# Introduction to L<sup>A</sup>T<sub>E</sub>X

20 January 2020 (Monday)

TT16 (2.201)

7 - 10 pm

Sign up [here](#).



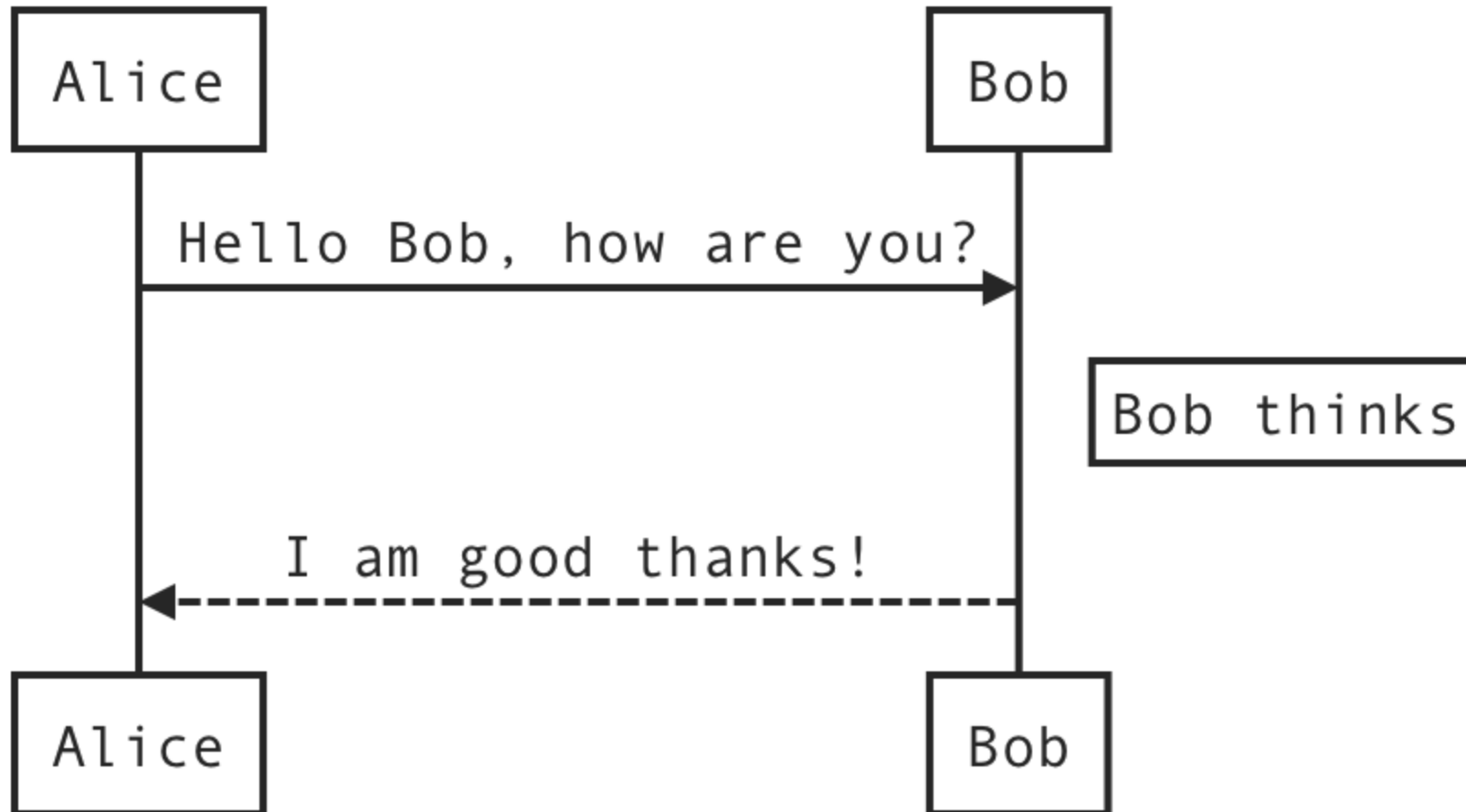
# Diagrams

# UML Sequence

js-sequence

```
```sequence
Alice->Bob: Hello Bob, how are you?
Note right of Bob: Bob thinks
Bob-->Alice: I am good thanks!

```
```

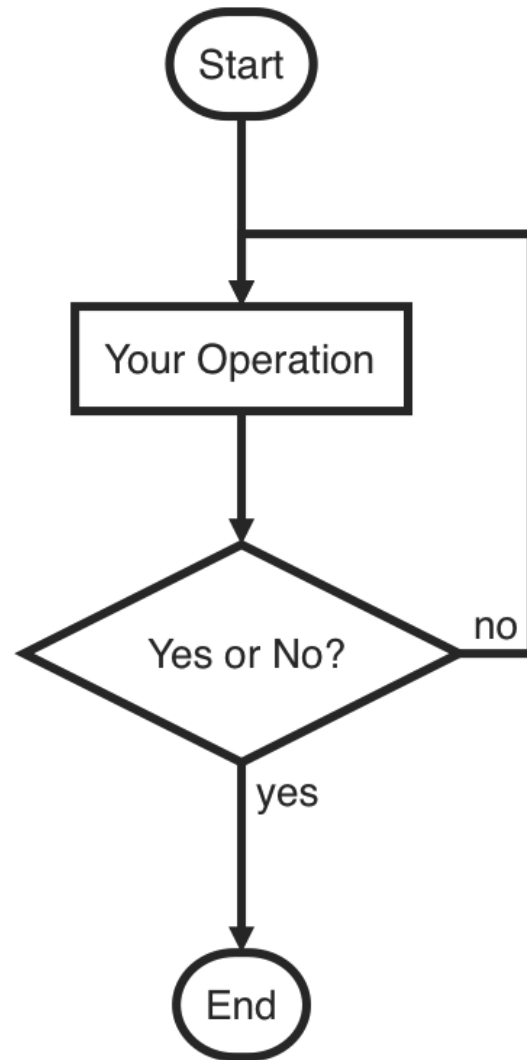


# Flowchart

`flowchart.js`

```
```flow
st=>start: Start
op=>operation: Your Operation
cond=>condition: Yes or No?
e=>end

st->op->cond
cond(yes)->e
cond(no)->op
```
```





# Mermaid

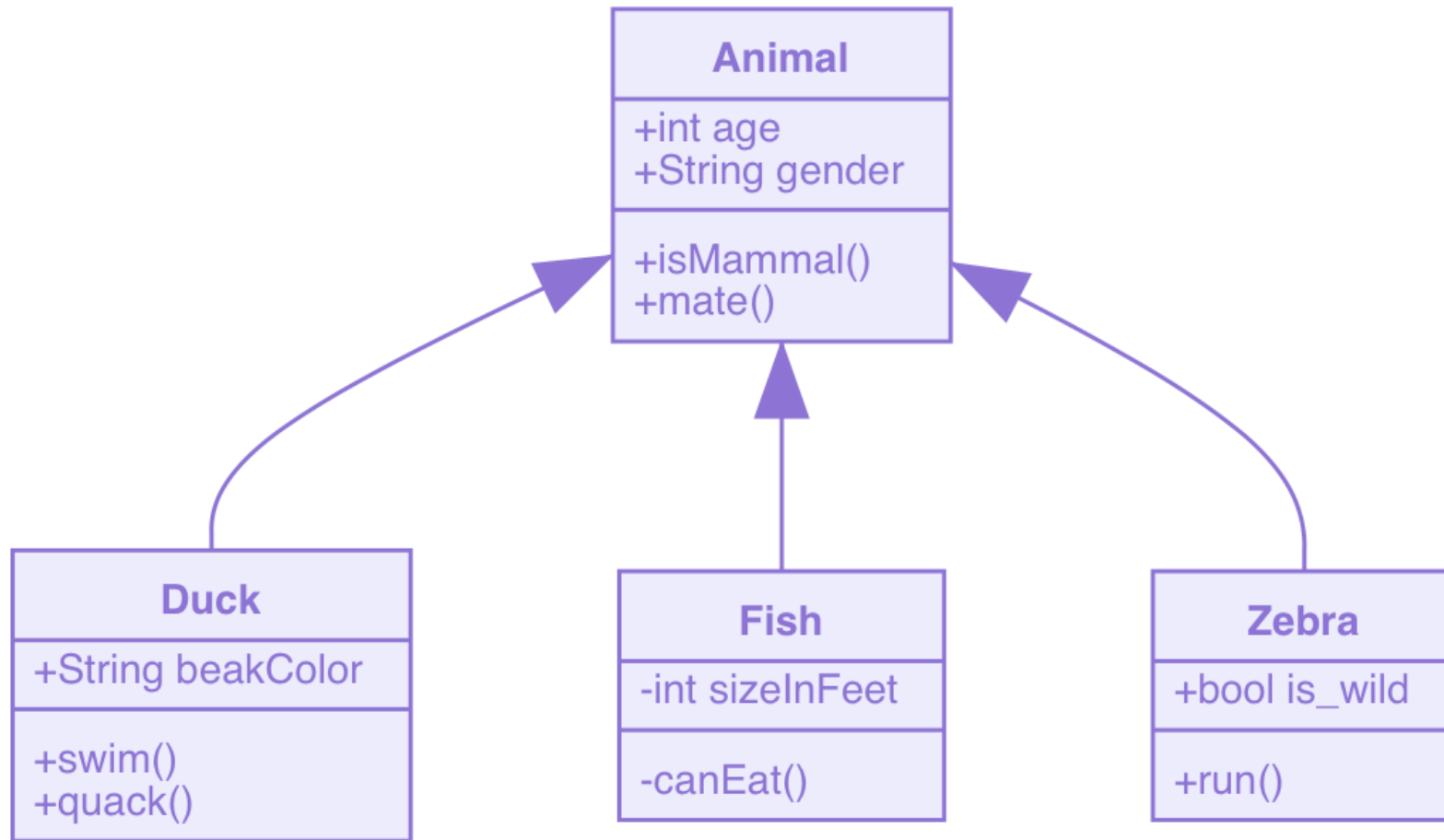
`mermaid-js`

# Class Diagram

```
```mermaid
classDiagram
    Animal <|-- Duck
    Animal <|-- Fish
    Animal <|-- Zebra
    Animal : +int age
    Animal : +String gender
    Animal: +isMammal()
    Animal: +mate()
```

```
class Duck{
    +String beakColor
    +swim()
    +quack()
}
class Fish{
    -int sizeInFeet
    -canEat()
}
class Zebra{
    +bool is_wild
    +run()
}
```

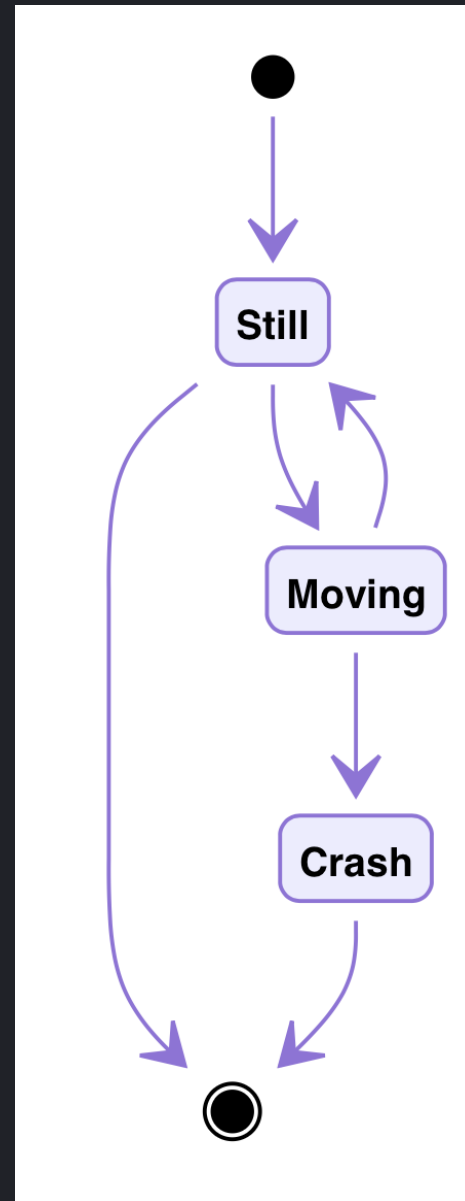




# State Diagram

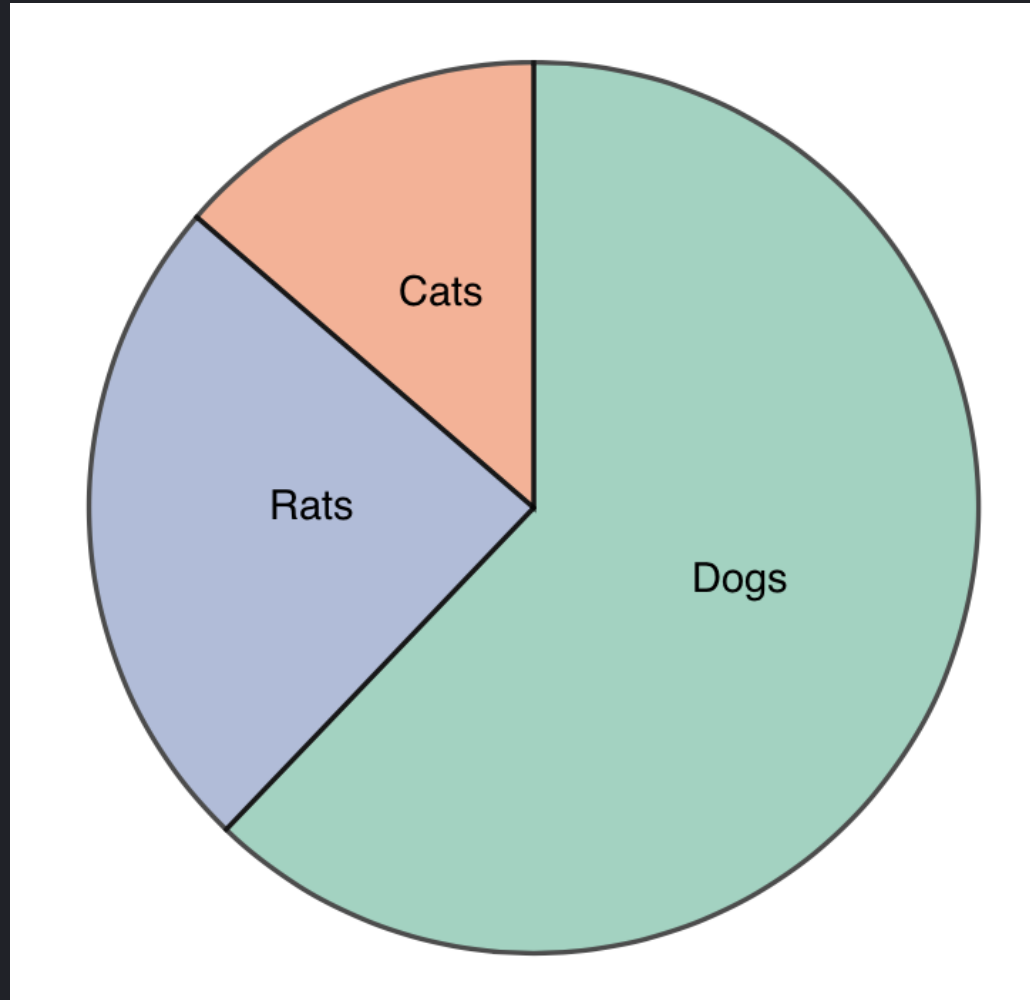
```
```mermaid
stateDiagram
    [*] --> Still
    Still --> [*]

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



# Pie Chart

```
```mermaid
pie
    title Pie Chart
    "Dogs" : 386
    "Cats" : 85
    "Rats" : 150
```
```



# Pandoc

Swiss-army knife to convert content

# Conversion between

- PDF
- Markup formats
- HTML formats
- Ebooks
- XML formats
- $\text{\TeX}$  formats
- Word processor formats
- Interactive notebook formats

...

# Demo

Converting Markdown to HTML



# MkDocs

Project documentation with Markdown.

# Installing MkDocs

```
pip install mkdocs
```

# Material theme for MkDocs

```
pip install mkdocs-material
```

# Create a new site

- `cd` to the appropriate folder

```
mkdocs new my-project  
cd my-project
```

# Editing `mkdocs.yml`

```
site_name: Test
nav:
  - Home: index.md
  - About: about.md
theme:
  name: "material"
```

# Serving the site

```
mkdocs serve
```

- Site up at [localhost:8000](http://localhost:8000)

# Activity 2 (15 min)

- Play around with the Material themed site
- Refer to [Getting Started](#) for more customization

# Building the site

```
mkdocs build
```

- By default, files at `/site`



# GitHub Pages

Free web hosting for GitHub users

# Personal Sites

- at *username.github.io*
- Repository should be '*username.github.io*'
- Source: `master` branch
  - Contents of `\site` to be placed here

# Project Sites

- at *username.github.io/project*
- Repository can have any name
- Source: `master` branch `/docs` folder
  - Contents of `\site` to be placed inside `/docs`

# Activity 3 (5 mins)

Host the website on GitHub.

# Powered by



Marp

## Markdown Presentation Ecosystem

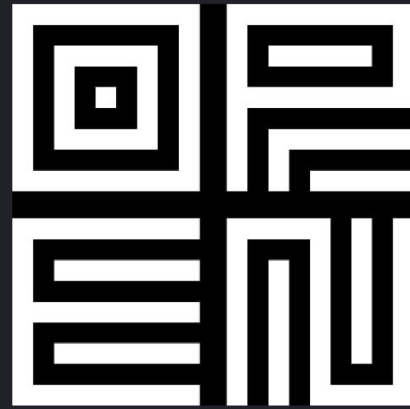
This entire slide deck was done entirely in Markdown.

# Source Code



OpenSUTD / IAP2020-MkDocs

# OpenSUTD



An open organisation owned  
by the SUTD community.



# Signing off,



**flmnt.**

@flamanta