

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

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
 1. Item 3a
 2. Item 3b

1. Item 1
2. Item 2
3. Item 3
 1. Item 3a
 2. 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  $\left[ \begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right]$ .

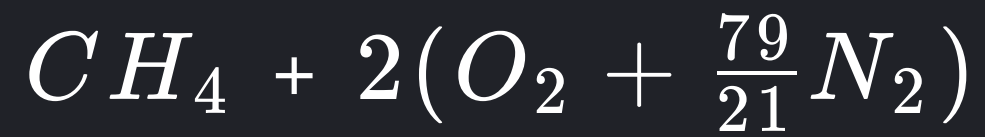
$$E = mc^2$$

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

$$e = mc^2$$

# Chemistry

$$\text{CH}_4 + 2 \left( \text{O}_2 + \frac{79}{21} \text{N}_2 \right)$$





# Introduction to *LaTeX*

20 January 2020 (Monday)

TT16 (2.201)

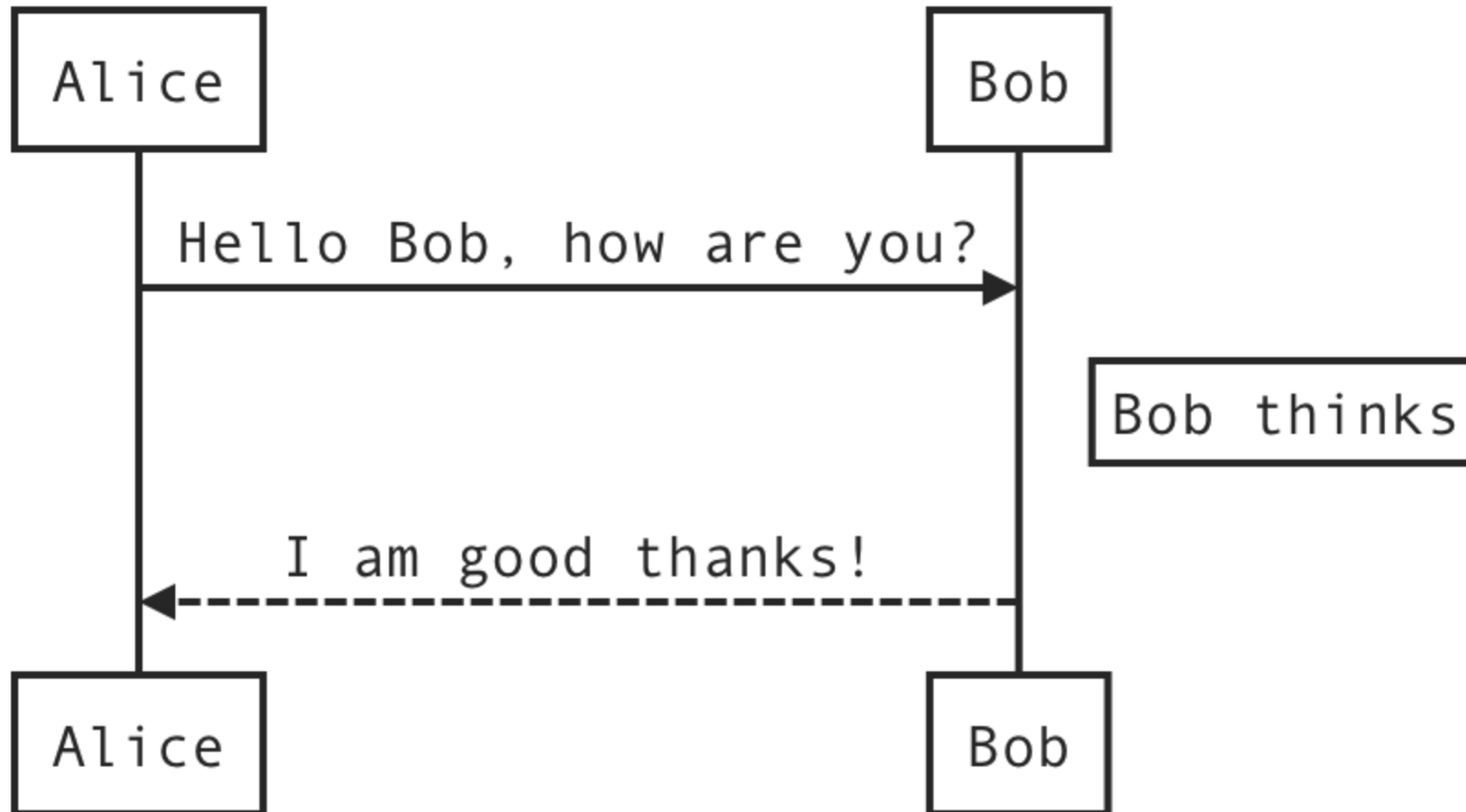
7 - 10 pm

# 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!
```
```

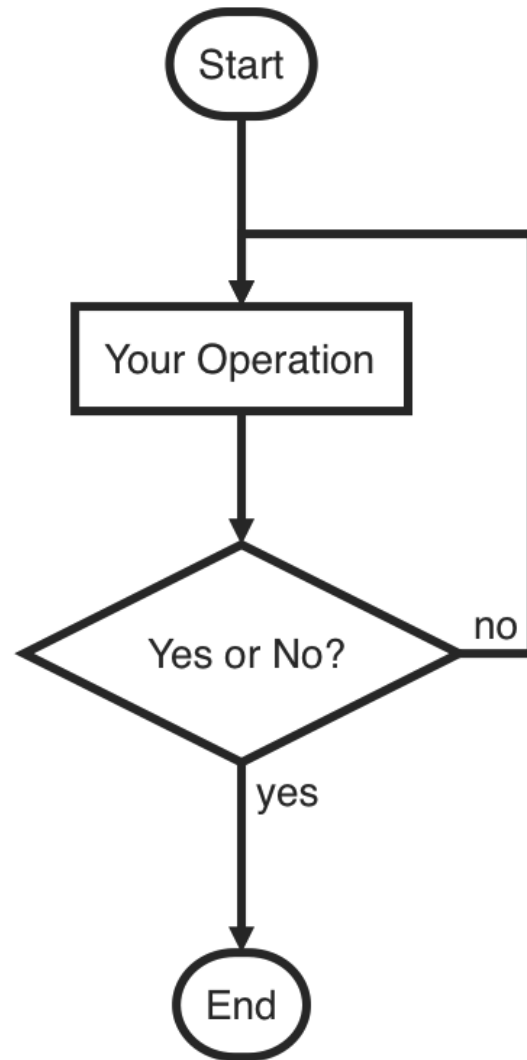


# Flowchart

`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

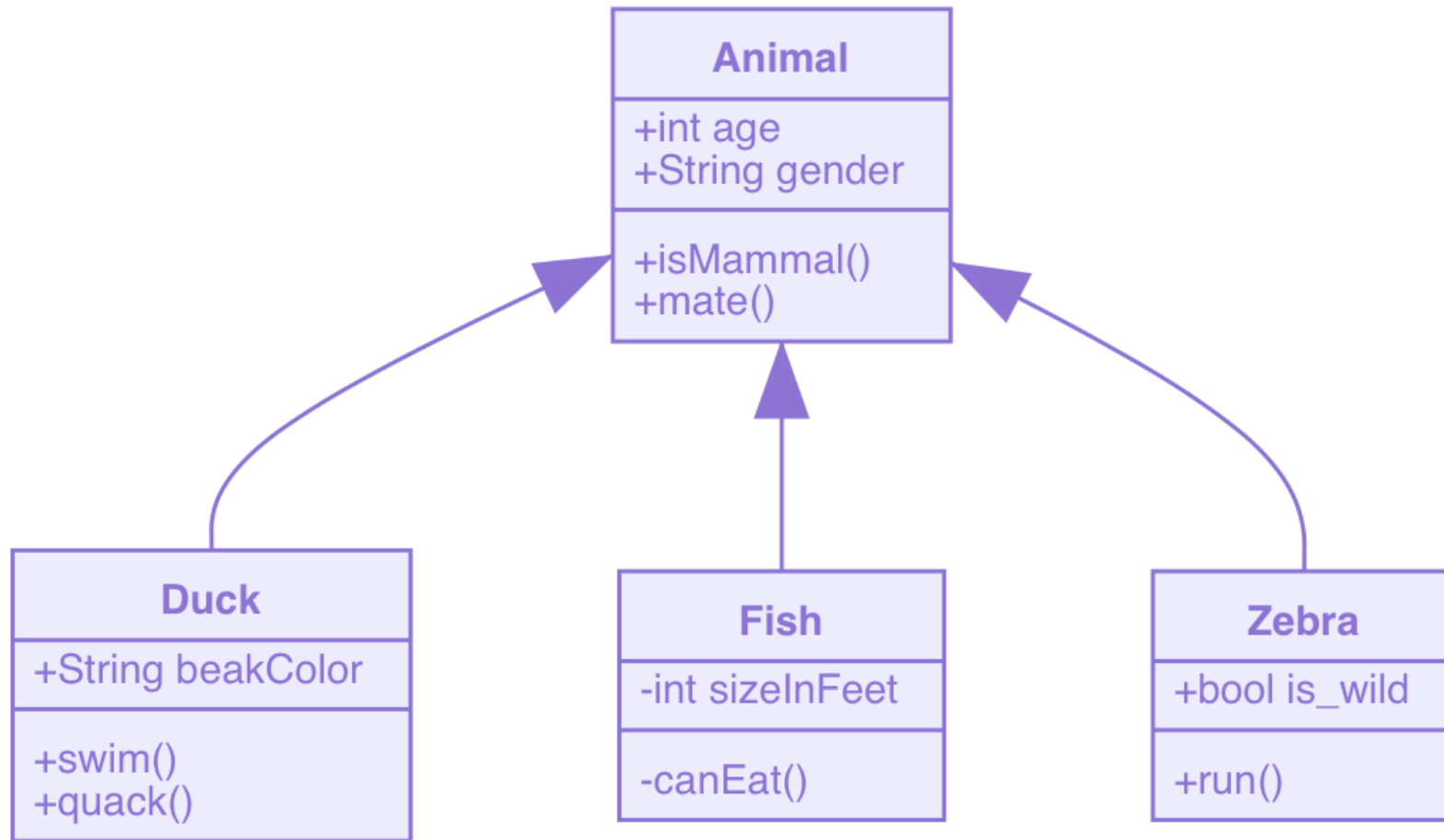
`mermaid-js`

# Class Diagram

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



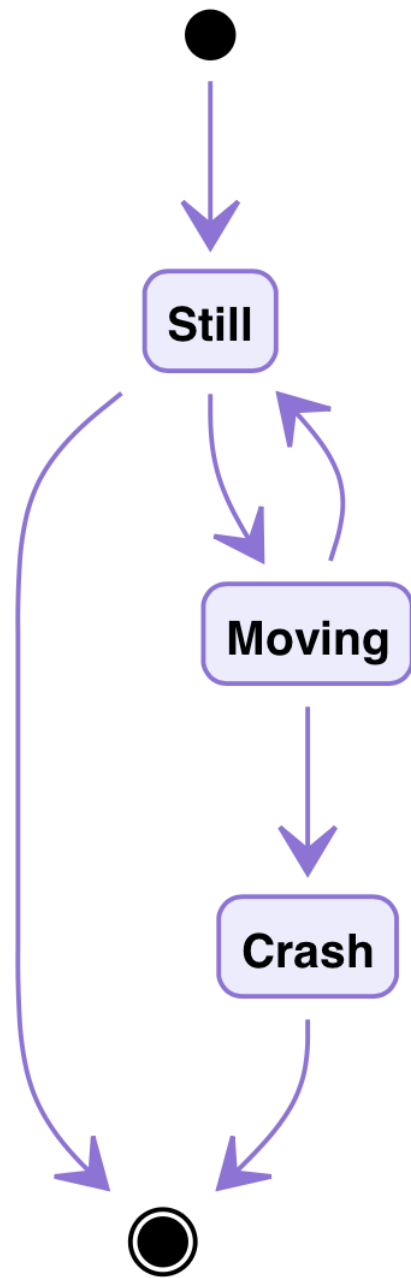
```
class Duck{
    +String beakColor
    +swim()
    +quack()
}
class Fish{
    -int sizeInFeet
    -canEat()
}
class Zebra{
    +bool is_wild
    +run()
}
```



State Diagram

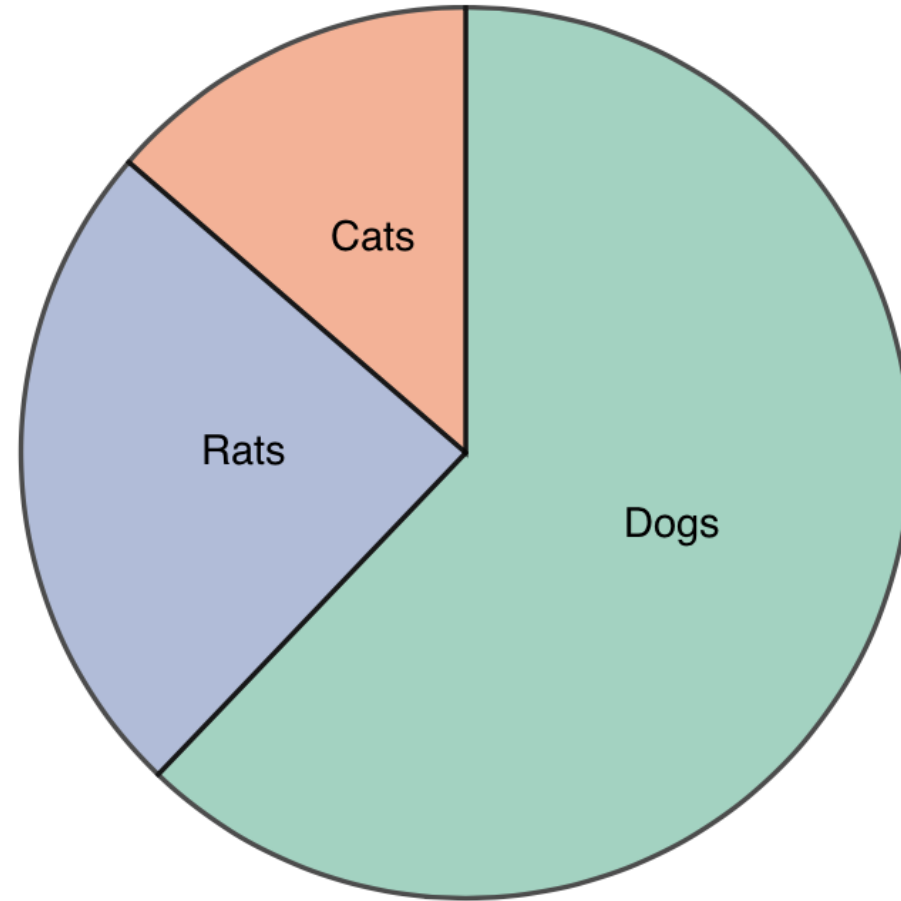
```
```mermaid
stateDiagram
 [*] --> Still
 Still --> [*]

 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
- *TeX* formats
- Word processor formats
- Interactive notebook formats
- ...

Demo

Converting Markdown to PDF

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
```

- Site up at 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 site
```

- 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

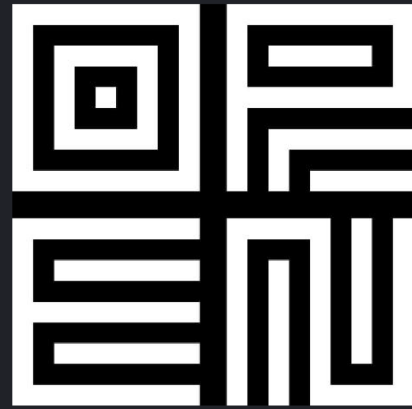
This entire slide deck was done entirely in Markdown.

Source Code



OpenSUTD / IAP2020-MkDocs

OpenSUTD



An open organisation owned
by the SUTD community.

Signing off,



flmnt.

@flamanta