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Head First Markdown

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2017-12-04

About Me

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- Major in Software Engineering, SEIEE
- Leader of iOS Group, Dongyue Studio
- Maintainer of Tongqu iOS client

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Introduction

Introduction

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- Markdown is a lightweight markup language with plain text formatting syntax.
- Developed by **John Gruber** in 2004.

Introduction

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According to John Gruber, "Markdown" is two things:
(1) a plain text formatting syntax;
(2) a software tool, written in Perl, that converts the plain text formatting to HTML.

Introduction

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```
![TeamNote](code/web/web/image/header.png)
# TeamNote
[![version](https://img.shields.io/badge/version-1.0.0-blue.svg)](https://github.com/qinjr/TeamNote/releases/tag/v1.0.0)
[![license:mit](https://img.shields.io/badge/license-mit-blue.svg)](https://opensource.org/licenses/MIT)

**TeamNote** is a summer project of Software Engineering, Shanghai Jiao Tong University, a platform for people to share and create notes together.

## Build
```
$ git clone https://github.com/qinjr/TeamNote.git
$ cd TeamNote
$ mvn install
```

## Developers
- **Jiarui Qin** ([@qinjr](https://github.com/qinjr))
- **Yuchen Cheng** ([@rudeigerc](https://github.com/rudeigerc))
- **Xuhui Lv** ([@lvxvh](https://github.com/lvxvh))

## License
**TeamNote** is available under the [MIT License](LICENSE).
```

TeamNote

version 1.0.0 license mit

TeamNote is a summer project of Software Engineering, Shanghai Jiao Tong University, a platform for people to share and create notes together.

Build

```
$ git clone https://github.com/qinjr/TeamNote.git
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Developers

- **Jiarui Qin** (@qinjr)
- **Yuchen Cheng** (@rudeigerc)
- **Xuhui Lv** (@lvxvh)

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Syntax

Headers (Atx-style)

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```
# This is an H1
## This is an H2
####### This is an H6
```

```
<h1>This is an H1</h1>
<h2>This is an H2</h2>
<h6>This is an H6</h6>
```

Blockquotes

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```
> "Markdown" is two things:
> (1) a plain text formatting syntax;
> (2) a software tool, written in Perl, that converts the plain text formatting to HTML.
```

```
<blockquote>
"Markdown" is two things:
...
</blockquote>
```

> "Markdown" is two things:
> (1) a plain text formatting syntax;
> (2) a software tool, written in Perl, that converts the plain text formatting to HTML.

Lists

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Unordered Lists

- Red
- Green
- Blue

- Red
- Green
- Blue

```
<ul>
        <li>Red</li>
        <li>Green</li>
        <li>Blue</li>
</ul>
```

Ordered Lists

1. Red
2. Green
3. Blue

1. Red
2. Green
3. Blue

```
<ol>
        <li>Red</li>
        <li>Green</li>
        <li>Blue</li>
</ol>
```

Code Blocks

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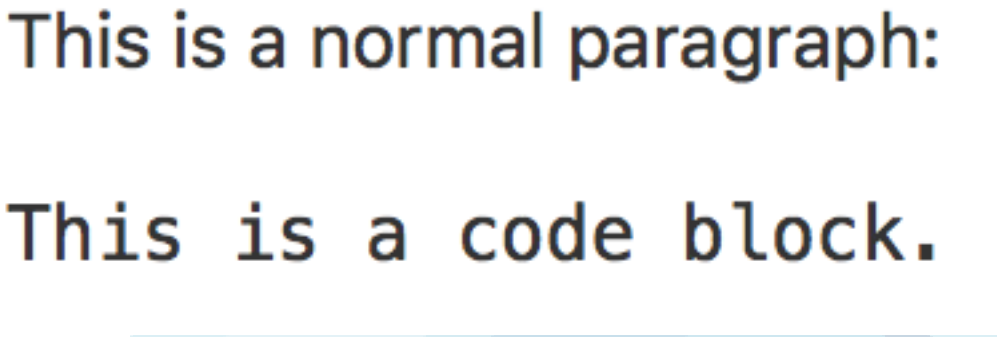
This is a normal paragraph:

```
    This is a code block.
```

```
<p>
    This is a normal paragraph:
</p>
<pre><code>
    This is a code block.
</code></pre>
```



Horizontal Rules

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```
* * *

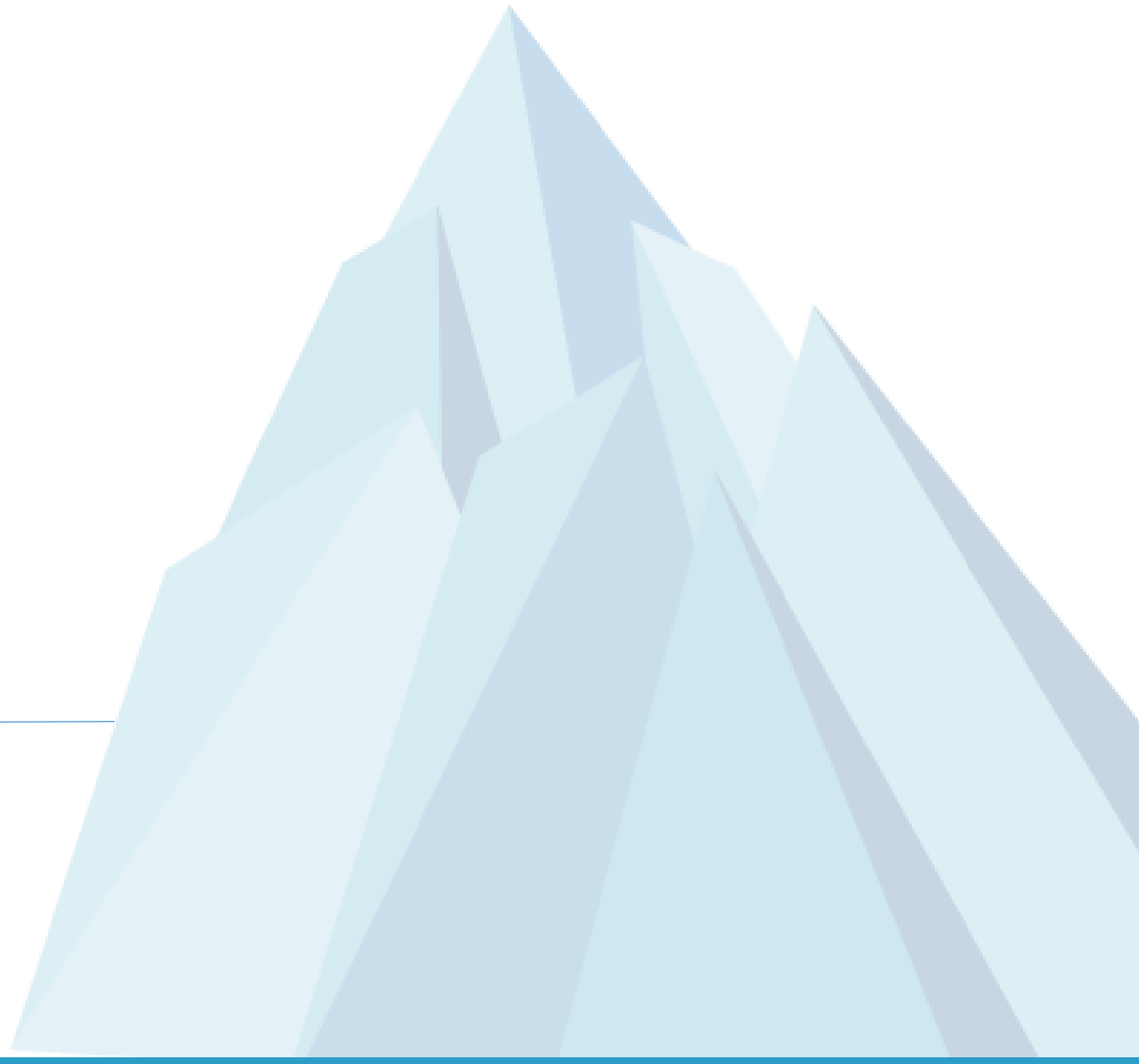
***

******

- - -

----------------
```

<hr />



Links

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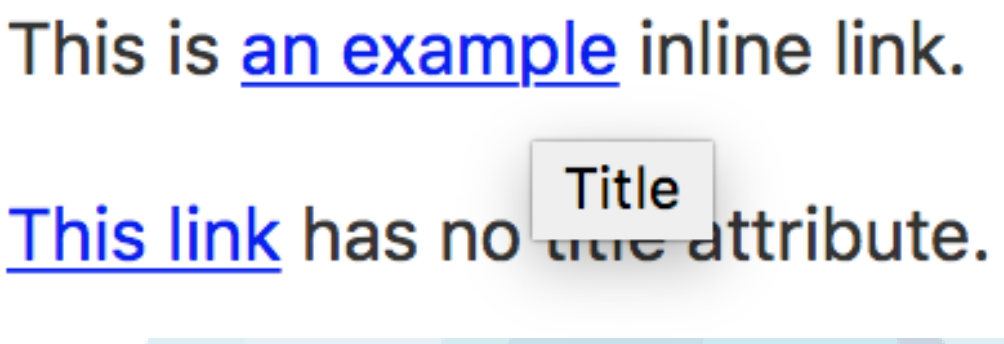
```
This is [an example](http://example.com/ "Title") inline link.

[This link](http://example.net/) has no title attribute.
```

```
<p>This is <a href="http://example.com/" title="Title">
an example</a> inline link.</p>

<p><a href="http://example.net/">This link</a> has no
title attribute.</p>
```



Links (Reference Style)

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```
## [2.1.0] - 2017-XX-XX
### Added
- Add `.gitigore`.
- Adapt iPhone X and iOS 11.0. (#3)

### Changed
- Upgrade dependencies.

### Fixed
- Fix display bug of removing search history.
- Fix crash caused by duplicated call of `decisionHandler`.
- Fix the overflow of location section in `ActivityDetailTableViewController`.
(#5)
- Fix the bug of `hidesButtomBarWhenPushed` not work. (#1)
- Fix the scrollbar display bug in iOS 11.0. (#4)

## [2.0.0] - 2017-XX-XX

[Unreleased]: https://path/to/git/compare/v2.2.1...develop
[2.2.1]: https://path/to/git/compare/v2.2.0...v2.2.1
[2.2.0]: https://path/to/git/compare/v2.1.2...v2.2.0
[2.1.2]: https://path/to/git/compare/v2.1.1...v2.1.2
[2.1.1]: https://path/to/git/compare/v2.1.0...v2.1.1
[2.1.0]: https://path/to/git/compare/v2.0.0...v2.1.0
[2.0.0]: https://path/to/git/commit/githash/of/v2.0.0
```

2.1.0 - 2017-XX-XX

Added

- Add `.gitigore`.
- Adapt iPhone X and iOS 11.0. (#3)

Changed

- Upgrade dependencies.

Fixed

- Fix display bug of removing search history.
- Fix crash caused by duplicated call of `decisionHandler`.
- Fix the overflow of location section in `ActivityDetailTableViewController`. (#5)
- Fix the bug of `hidesButtomBarWhenPushed` not work. (#1)
- Fix the scrollbar display bug in iOS 11.0. (#4)

2.0.0 - 2017-XX-XX

Emphasis

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`*single asterisks*`	*single asterisks*
`_single underscores_`	*single underscores*
`**double asterisks**`	**double asterisks**
`__double underscores__`	**double underscores**

Code

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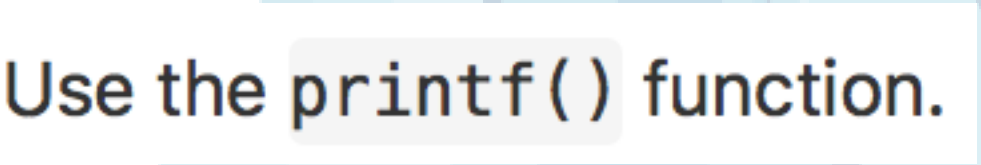
```
Use the `printf()` function.
```

```
<p>Use the <code>printf()</code> function.</p>
```



Images

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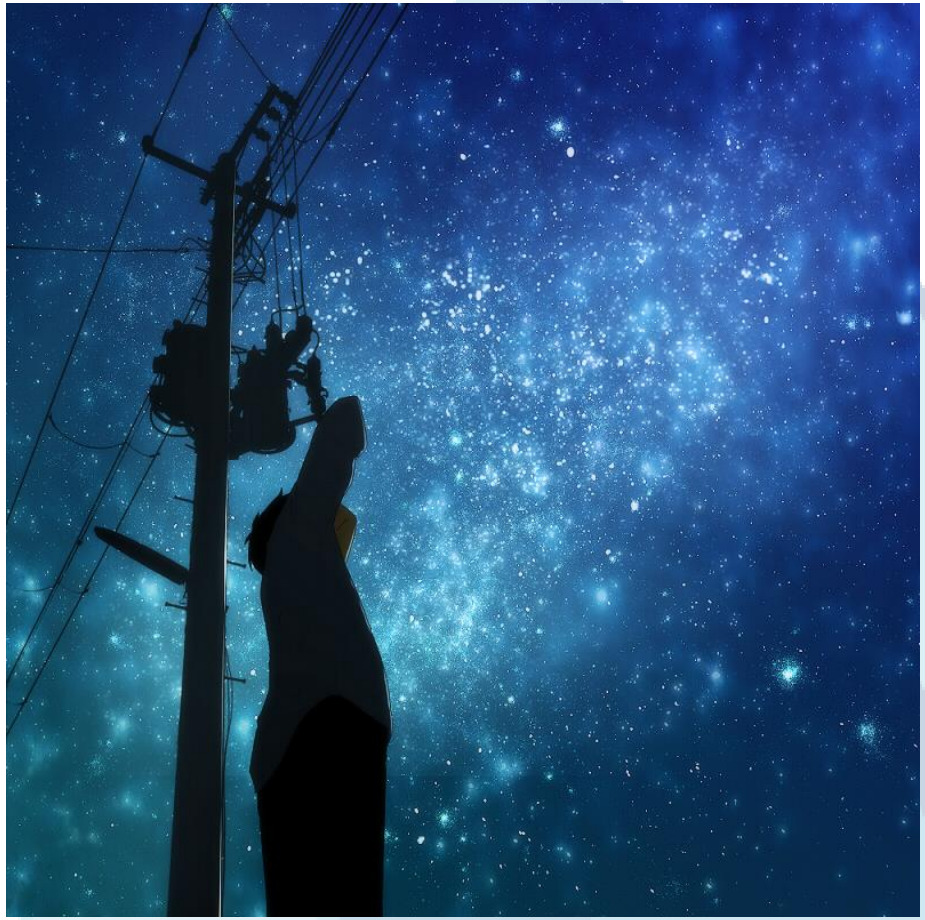
```
![avatar.jpg](quiver-image-url/99E7A83CB1D764EFF96AFB5AF251B3A2.jpg)
```



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Extension

GitHub Flavored Markdown

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- Styling text

Style	Syntax	Keyboard shortcut	Example	Output
Bold	`** **` or `__ __`	command/control + b	`**This is bold text**`	**This is bold text**
Italic	`* *` or `_ _`	command/control + i	`*This text is italicized*`	*This text is italicized*
Strikethrough	`~~ ~~`		`~~This was mistaken text~~`	~~This was mistaken text~~
Bold and italic	`** **` and `_ _`		`**This text is _extremely_ important**`	**This text is *extremely* important**

GitHub Flavored Markdown

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- Code

```swift
func application(_ application: UIApplication, performActionFor
shortcutItem: UIApplicationShortcutItem, completionHandler: @escaping
(Bool) -> Void) {
    guard let itemType = ShortcutItemType(shortcutItem: shortcutItem)
    else {
        completionHandler(false)
        return
    }

    switch itemType {
    case .search:
        if let tabBarController = self.window?.rootViewController as?
        UITabBarController {
            tabBarController.selectedIndex = 0
            if let navigationController =
            tabBarController.selectedViewController as?
            UINavigationController {
                DispatchQueue.main.async {

                    navigationController.pushViewController(ActivityS
                    earchViewController.instantiate(), animated:
                    true)
                }
            }
        }
    completionHandler(true)
}
```

```swift
1   func application(_ application: UIApplication,
performActionFor shortcutItem: UIApplicationShortcutItem,
completionHandler: @escaping (Bool) -> Void) {
2       guard let itemType = ShortcutItemType(shortcutItem:
shortcutItem) else {
3           completionHandler(false)
4           return
5       }
6
7       switch itemType {
8       case .search:
9           if let tabBarController =
self.window?.rootViewController as? UITabBarController {
10              tabBarController.selectedIndex = 0
11              if let navigationController =
tabBarController.selectedViewController as?
UINavigationController {
12                  DispatchQueue.main.async {
13
navigationController.pushViewController(ActivitySearchViewControl
ler.instantiate(), animated: true)
14                  }
15              }
16          }
17      completionHandler(true)
18  }
```

GitHub Flavored Markdown

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- Task lists

To create a task list, preface list items with `[ ]`. To mark a task as complete, use `[x]`.

```
- [x] Finish my changes
- [ ] Push my commits to GitHub
- [ ] Open a pull request
```

- [x] Finish my changes
- [ ] Push my commits to GitHub
- [ ] Open a pull request

If a task list item description begins with a parenthesis, you'll need to escape it with `\`:

```
- [ ] \(Optional) Open a followup issue
```

LaTeX LaTeX

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```
\( E_0 = mc^2 \)
\( E = \frac{mc^2}{\sqrt{1-\frac{v^2}{c^2}}} \)
```

$$E_0 = mc^2$$

$$E = \frac{mc^2}{\sqrt{1-\frac{v^2}{c^2}}}$$

Diagram

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- mermaid (https://github.com/knsv/mermaid)
- Sequence Diagram
  - js-sequence-diagrams (https://github.com/bramp/js-sequence-diagrams)
- Flowchart Diagram
  - flowchart.js (https://github.com/adrai/flowchart.js)

Sequence Diagram

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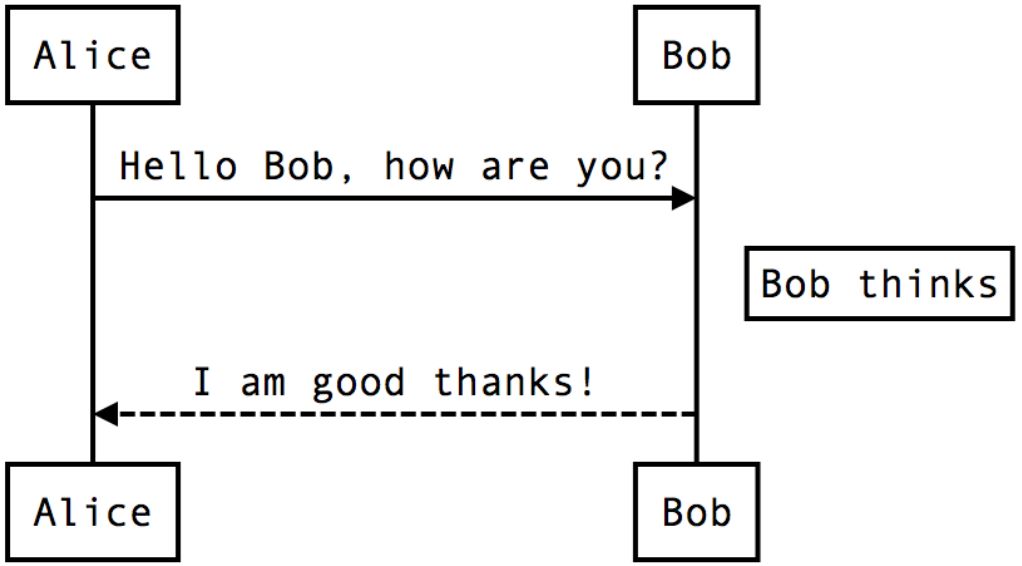
```
Alice->Bob: Hello Bob, how are you?
Note right of Bob: Bob thinks
Bob-->Alice: I am good thanks!
```



Flowchart Diagram

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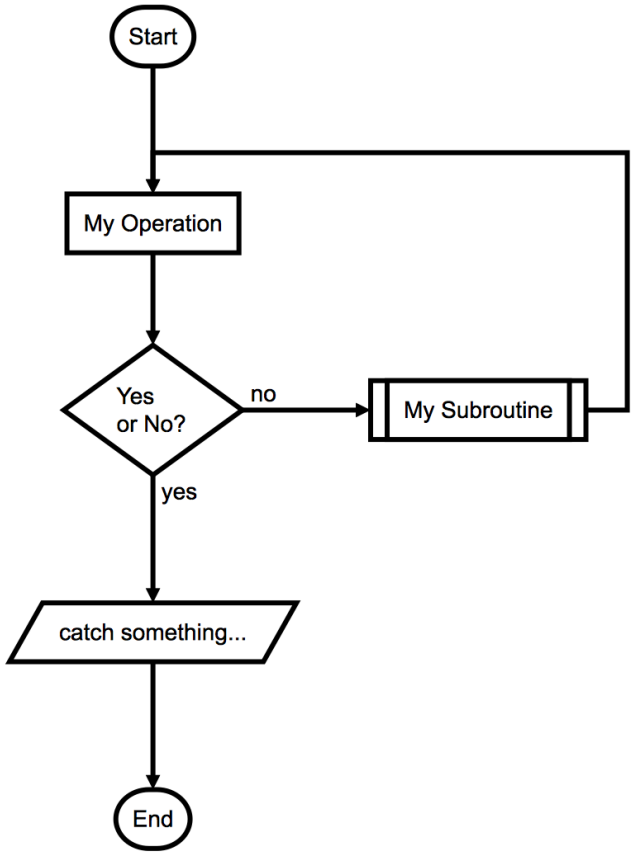
```
st=>start: Start:>http://www.google.com[blank]
e=>end:>http://www.google.com
op1=>operation: My Operation
sub1=>subroutine: My Subroutine
cond=>condition: Yes
or No?:>http://www.google.com
io=>inputoutput: catch something...

st->op1->cond
cond(yes)->io->e
cond(no)->sub1(right)->op1
```



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Applicability

Applicability

- Why should I choose Markdown?
- When should I choose Markdown?
- Which editor should I choose to write Markdown?

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Why?

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- Markdown V.S. Rich Text Editor (WYSIWYG)
  - Focus on writing, not have to switch between mouse and keyboard
  - Easier to find miss
  - Available on every platform
    - Easy to read
    - You just have to open the easiest text editor then you can edit
    - Export to specific formats (Pandoc)

When?

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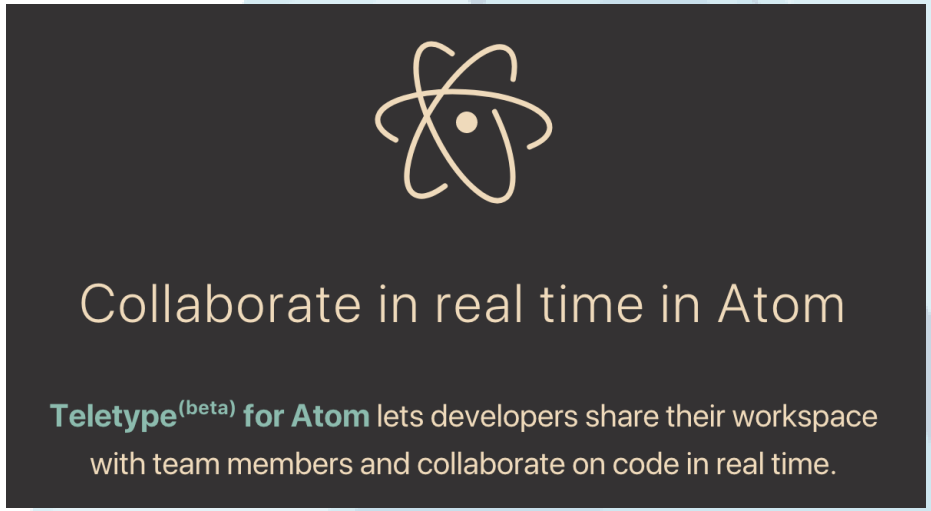
- Take notes from PowerPoint
- Whenever you want to write!
  - A naive idea
  - Finding the solution of a bug on the bed
  - Document of your project
  - Blog (Hexo, Jekyll etc.)
- Teamwork
  - Easy to do version control



Which?

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Reference

Reference

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- https://daringfireball.net/projects/markdown/
- https://en.wikipedia.org/wiki/Markdown
- https://help.github.com/articles/basic-writing-and-formatting-syntax/
- https://sspai.com/post/25137
- https://sspai.com/post/36610
- https://sspai.com/post/36682

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Thank you!