

# Markdown syntax demo

Hello\_Warden

## Software and Environment Setup

1. **Software:** Visual Studio Code [Official Download](#)
2. **Extensions:**
  - Markdown Preview Enhanced
  - Markdown ALL in One
  - Paste Image
3. **Environment:** Windows 11

## Markdown Syntax Demonstration

### 1. Headers

Use hash symbols + space + content, with six levels available:

- Level 1: # Header
- Level 2: ## Header
- Level 3: ### Header
- Level 4: #### Header
- Level 5: ##### Header
- Level 6: ##### Header

### 2. Paragraphs

Separate paragraphs with blank lines, using - + space:

- First paragraph
- Second paragraph
- Third paragraph

### 3. Lists

- **Unordered lists:** Use - + space + content:
  - List1

- List1.1
- List1.2
- List1.3

○ List2

- List2.1
- List2.2
- List2.3

- **Ordered lists:** Use numbers + space + content:

i. List1

- a. List1.1
- b. List1.2
- c. List1.3

ii. List2

- a. List2.1
- b. List2.2
- c. List2.3

- **TodoList:** Use - + space + [ ] + content:

☒ a

☒ b

☒ c

#### 4. Tables

- **Basic table:**

| Name  | Age | Score |
|-------|-----|-------|
| Zhang | 18  | 58    |
| Li    | 19  | 60    |
| Wang  | 20  | 70    |

- **Alignment:**

| Left | Center | Right |
|------|--------|-------|
| a    | b      | c     |
| d    | e      | f     |
| g    | h      | i     |

## 5. Common Markdown Syntax

| Example | Syntax |

| :---: | :---: |

| *Italic* | \* \* |

| **Bold** | \*\* \*\* |

| ***Bold Italic*** | \*\*\* \*\*\* |

| Highlight | == == |

| ~~Strikethrough~~ | ~~ ~~ |

| Underline | <u> </u> |

| `printf("Hello World");` | Triple backticks |

## 6. Code Blocks

- **C:**

```
#include <stdio.h>
int main(){
    printf("Hello, World!");
    return 0;
}
```

### **C++**

```
#include <iostream>
using namespace std;
int main(){
    cout << "Hello, World!" << endl;
    return 0;
}
```

### **Java**

```
public class HelloWorld {
    public static void main(String[] args){
        System.out.println("Hello, World!");
    }
}
```

### **JavaScript**

```
console.log("Hello, World!");
```

### **HTML**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

## 7. Horizontal Rules

- Use three or more - , \* or \_ :

o

o

## 8. Images and Links

- Images: ![Alt text](image path)
- Example:

o



- Links:
  - [Eden](#)
  - Alternative format: [link\\_name](#)

## 9. Blockquotes

- Example:

OpenJDK: <https://openjdk.org/>

FreeCAD: <https://github.com/FreeCAD/FreeCAD/>

ESP32-DIV: <https://github.com/cifertech/ESP32-DIV/>

WIKI: Welcome to the official Wiki for ESP32-DIV, a powerful open-source multi-band wireless toolkit built on the ESP32 microcontroller! Designed for wireless testing, signal analysis, and protocol exploration, the ESP32-DIV supports Wi-Fi, Bluetooth Low Energy (BLE), 2.4GHz, and Sub-GHz frequencies. Whether you're a cybersecurity enthusiast, a wireless tech hobbyist, or an IoT developer, this project offers a versatile platform for your experiments.

⚠ Disclaimer: This project is for educational and research purposes only. Do not use it for malicious activities or unauthorized access.

## 10. Footnotes

- Here's a footnote<sup>[1]</sup> reference.

# Mathematical Formulas

1. Inline:  $\text{\$formula\$}$

Three-phase power formula:

- $P = \sqrt{3} * U * I * \cos(\varphi)$

2. Block:  $\text{\$formula\$}$

IRMS current calculation:

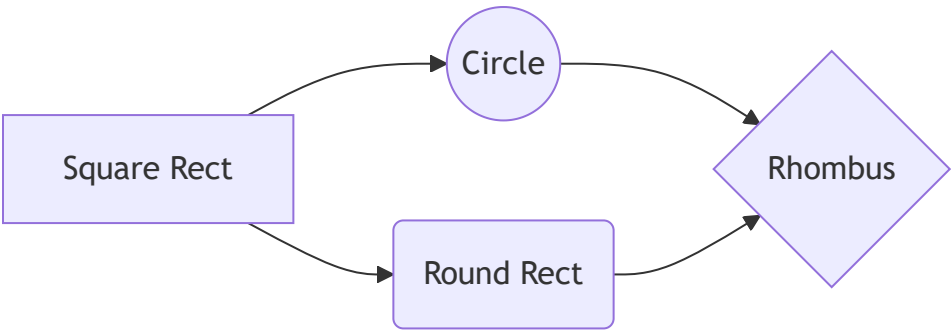
- $$IRMS = \frac{Po}{\eta * u_{in} * \cos\varphi}$$

3. Formulas in Tables:

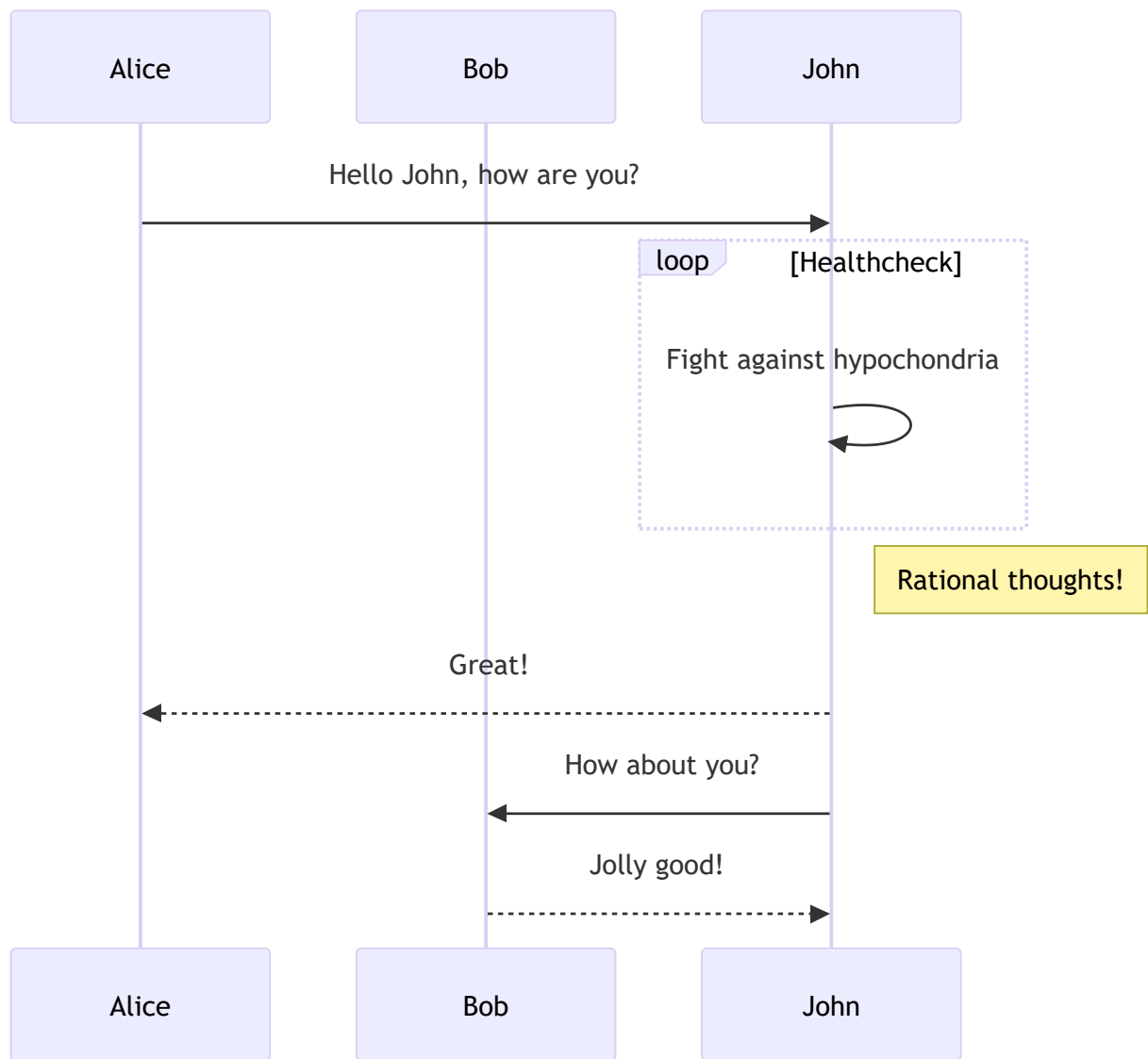
| Formula   | Field                     |
|---|---------------------------|
| $P = \sqrt{3} * U * I * \cos(\varphi)$          | Three-phase power formula |
| $IRMS = \frac{Po}{\eta * u_{in} * \cos\varphi}$ | IRMS current calculation  |

# Diagrams

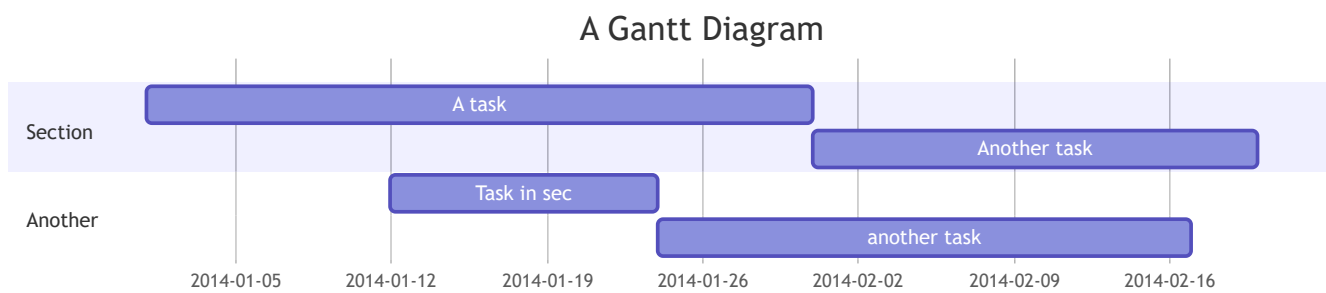
1. Diagram



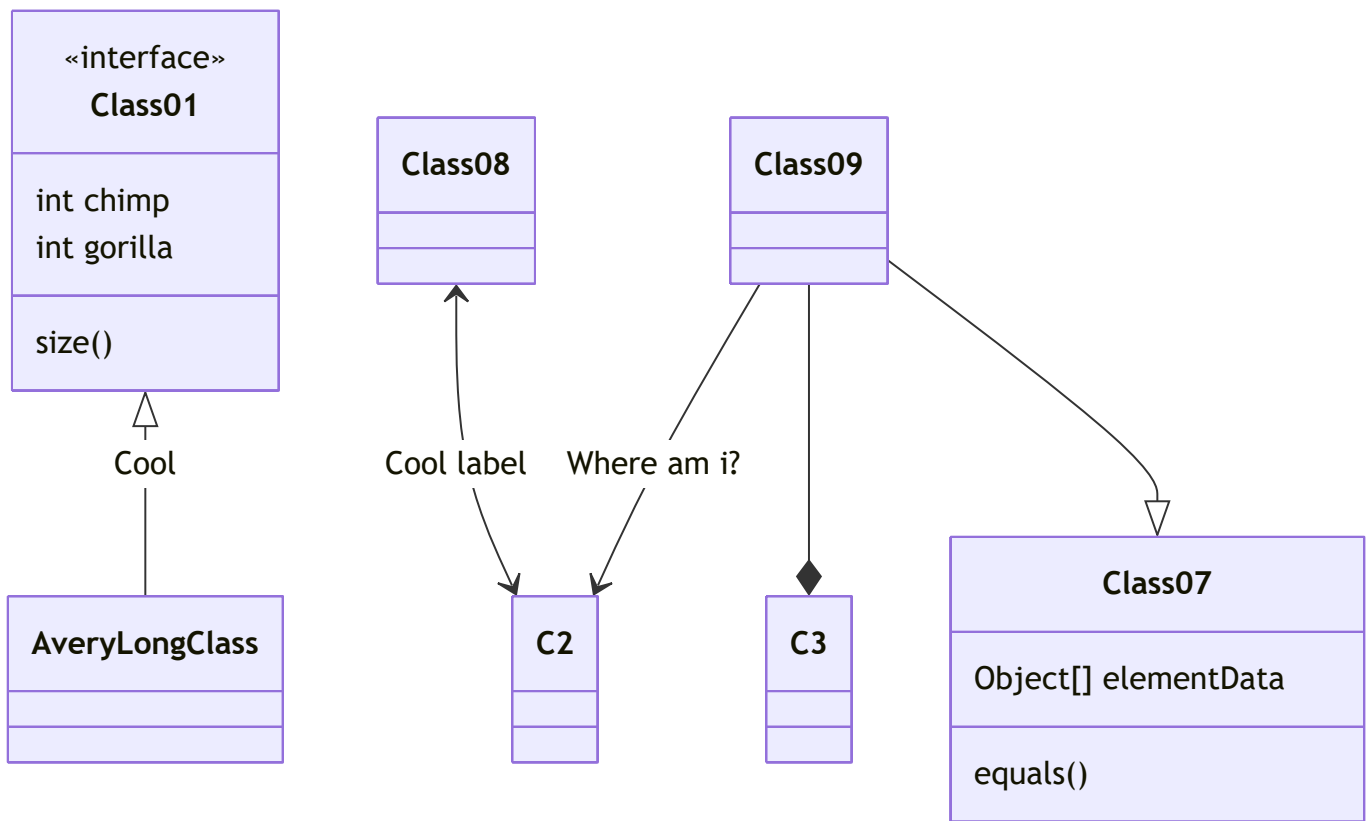
2. Sequence Diagram



### 3. Gantt

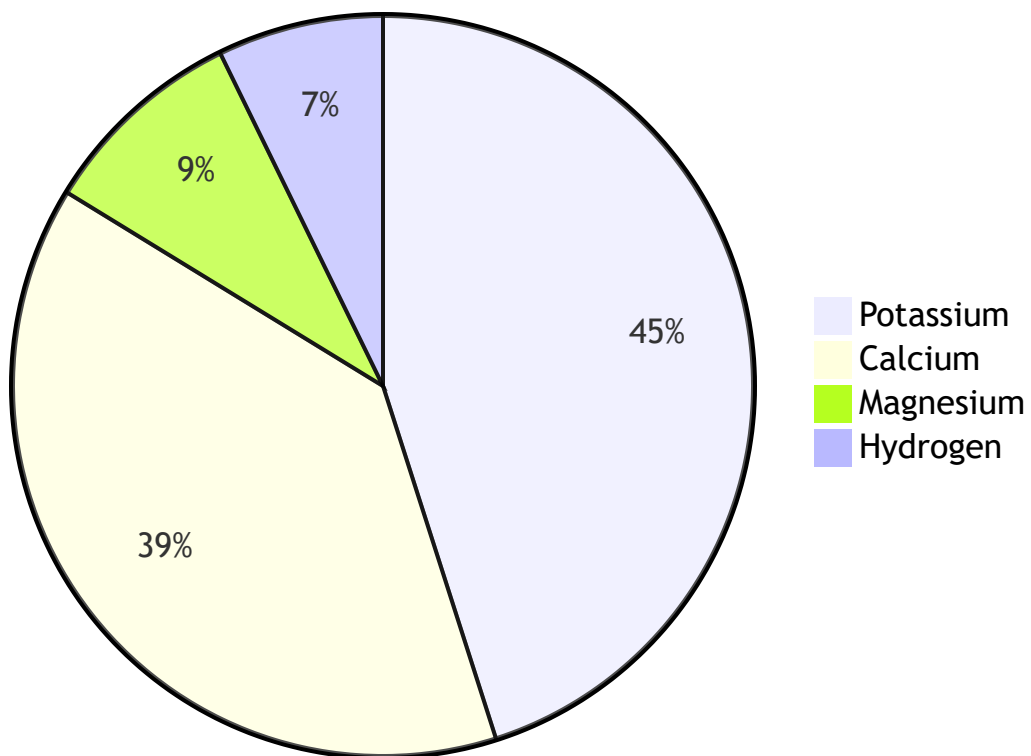


### 4. Class Diagram



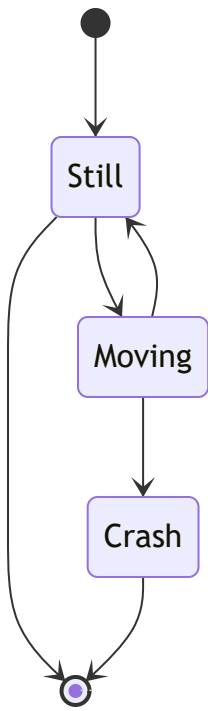
5. pie Chart

Key elements in Product X



6. State Diagram





1. (<https://www.scribbr.com/citing-sources/what-are-footnotes/>) ↩