

Awesome Mermaid Diagrams

Author: **Kuan Cheang**

Reference: **ITD-001**

Version: **v1.0**

Date: **3/8/2022**

© Copyright 2021, Asian Software Quality Institute Limited (ASQI)

This document, which contains confidential material, is private and confidential and is the property and copyright of ASQI. No part of this document may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, chemical, photocopy, recording or otherwise without the prior written permission of ASQI. Upon completion of the Awesome Mermaid Diagrams for HappyFarm, the copyright of this document will be transferred to HappyFarm.

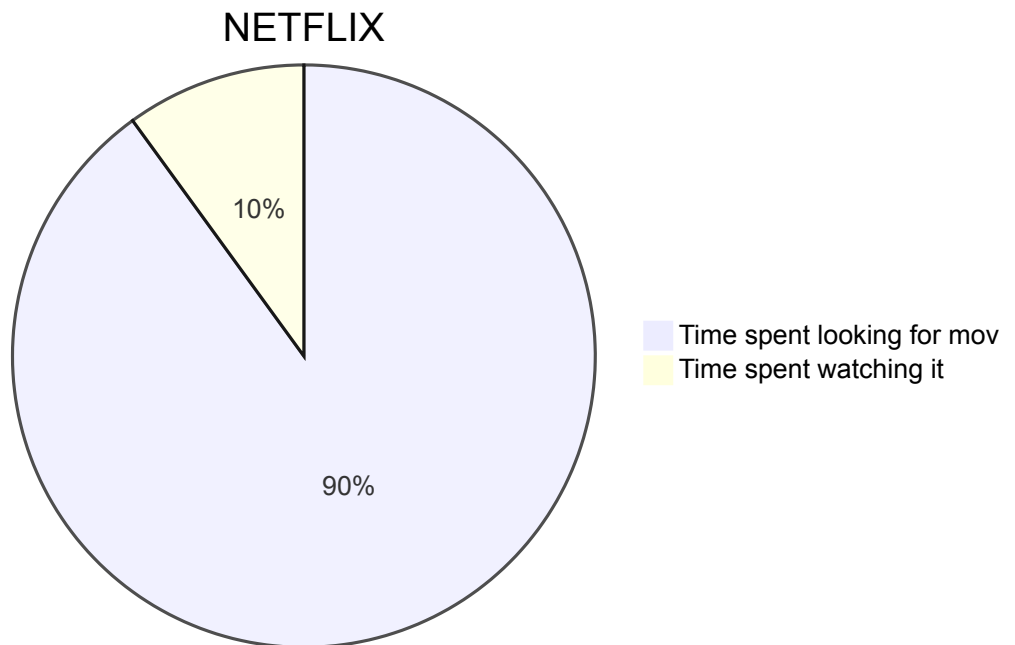
Generating Mermaid Diagrams

Converting code block which has a keyword `mermaid` to a diagram with `svg` format.

Examples

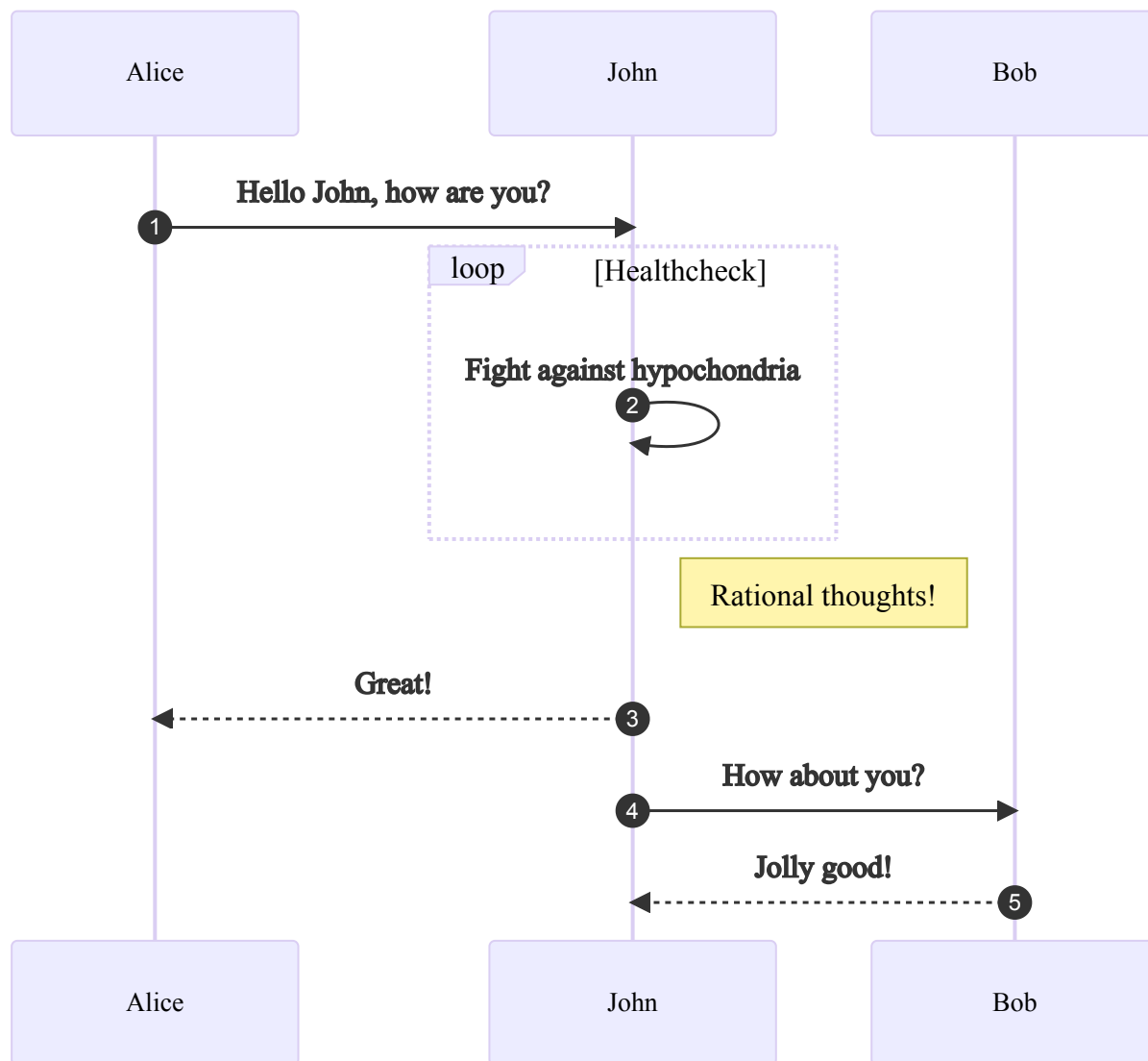
Basic Pie Chart

```
```mermaid
pie title NETFLIX
 "Time spent looking for movie" : 90
 "Time spent watching it" : 10
```
```



Basic sequence diagram

```
```mermaid
sequenceDiagram
 autonumber
 Alice->>John: Hello John, how are you?
 loop Healthcheck
 John->>John: Fight against hypochondria
 end
 Note right of John: Rational thoughts!
 John-->>Alice: Great!
 John->>Bob: How about you?
 Bob-->>John: Jolly good!
```
```

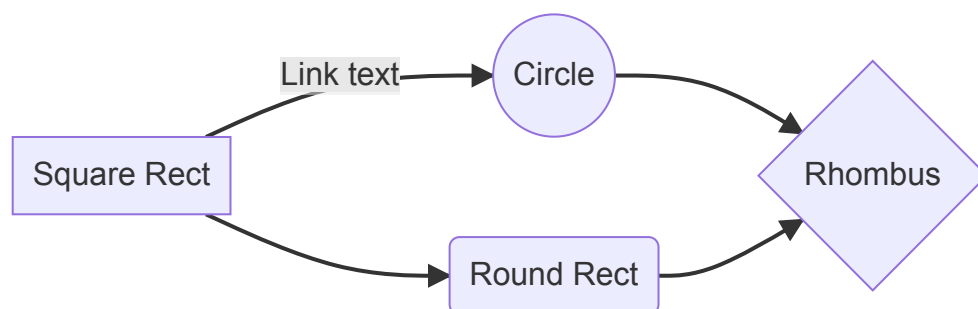


Basic flowchart

```

```mermaid
graph LR
 A[Square Rect] -- Link text --> B((Circle))
 A --> C(Round Rect)
 B --> D{Rhombus}
 C --> D
  ```

```



Larger flowchart with some styling

```

```mermaid
graph TB
 sq[Square shape] --> ci((Circle shape))

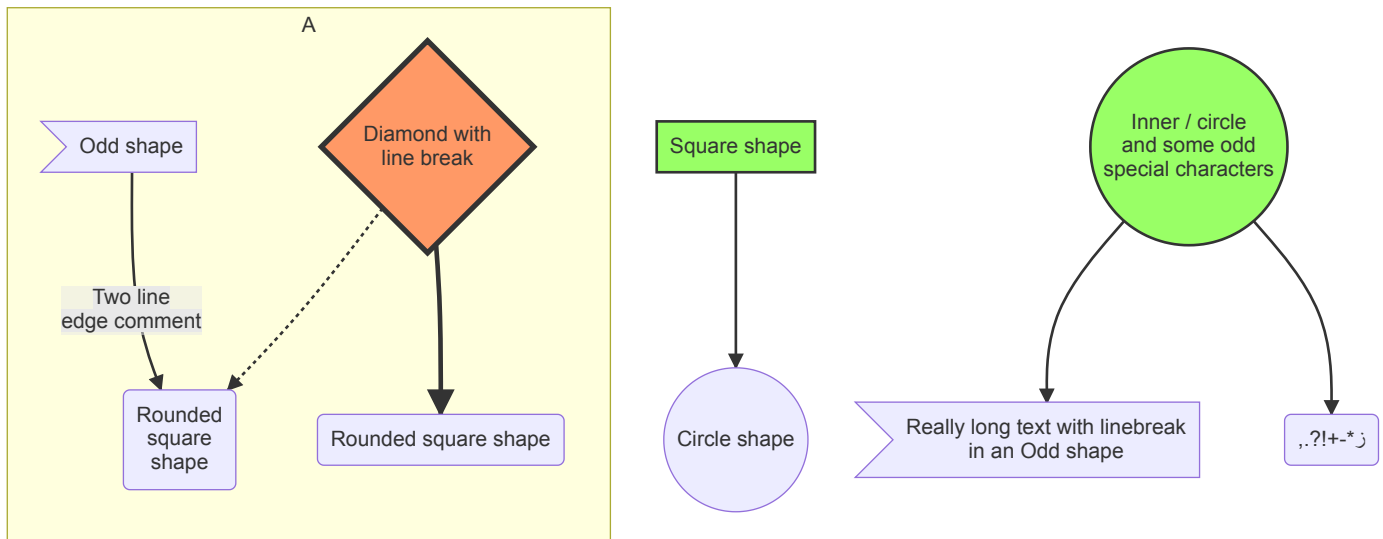
 subgraph A
 od>Odd shape]-- Two line
 end
 edge comment --> ro
 di{Diamond with
 line break} -.-> ro(Rounded
 square
 shape)
 di==>ro2(Rounded square shape)
 end

 %% Notice that no text in shape are added here instead that is appended further down
 e --> od3>Really long text with linebreak
 in an Odd shape]

 %% Comments after double percent signs
 e((Inner / circle
 and some odd
 special characters)) --> f(, .?!+~*)

 classDef green fill:#9f6,stroke:#333,stroke-width:2px;
 classDef orange fill:#f96,stroke:#333,stroke-width:4px;
 class sq,e green
 class di orange
 ...

```



## User Journey Diagram

```

```mermaid
journey
    title My working day
    section Go to work

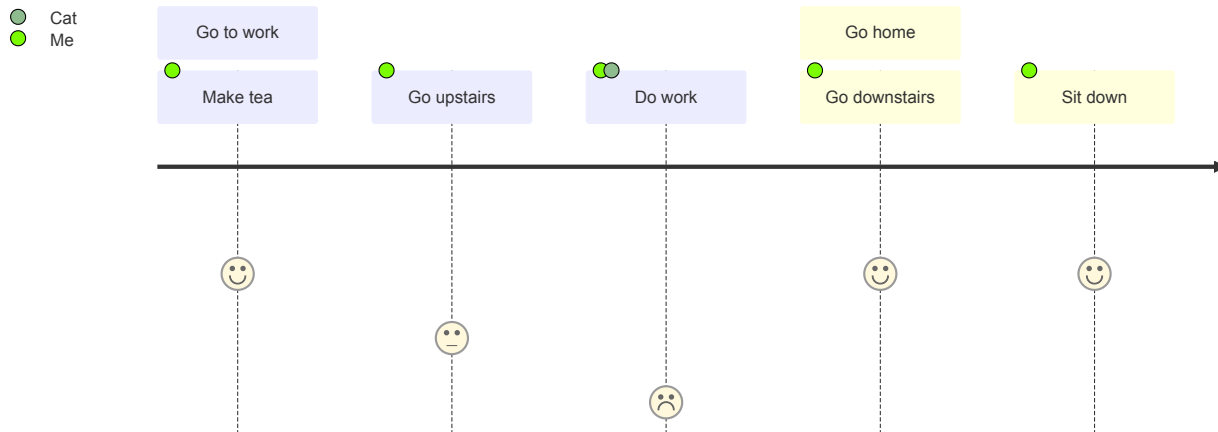
```

```

Make tea: 5: Me
Go upstairs: 3: Me
Do work: 1: Me, Cat
section Go home
Go downstairs: 5: Me
Sit down: 5: Me
...

```

My working day



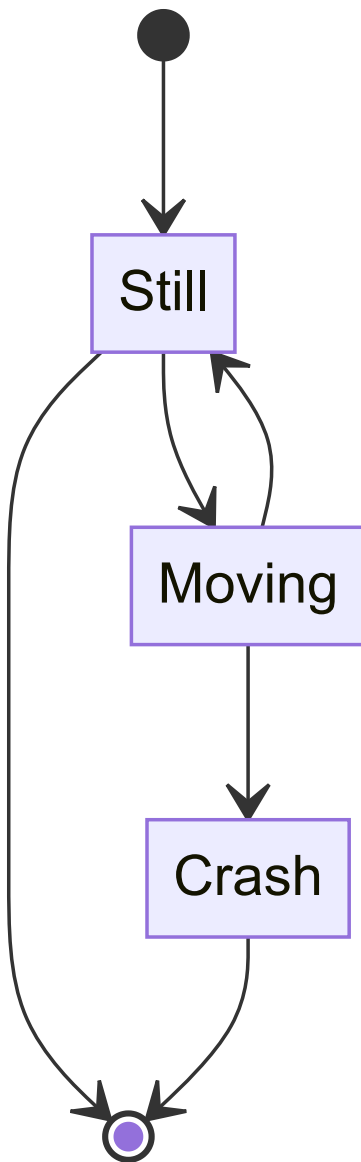
State diagrams

```

```mermaid
stateDiagram-v2
 [*] --> Still
 Still --> [*]

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

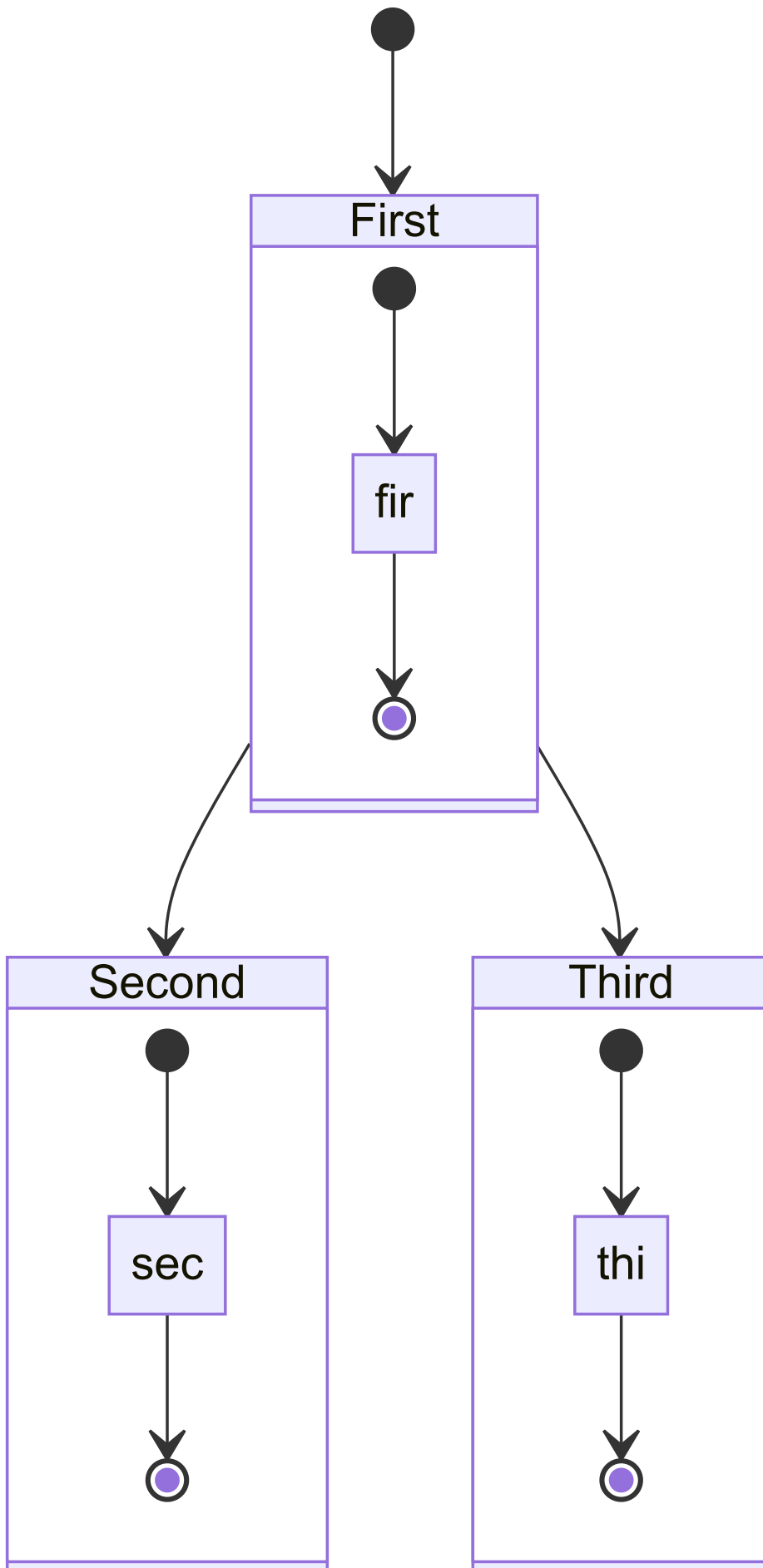
```



## Composite state diagram

```
```mermaid
stateDiagram-v2
    [*] --> First
    First --> Second
    First --> Third

    state First {
        [*] --> fir
        fir --> [*]
    }
    state Second {
        [*] --> sec
        sec --> [*]
    }
    state Third {
        [*] --> thi
        thi --> [*]
    }
    ...
```
```



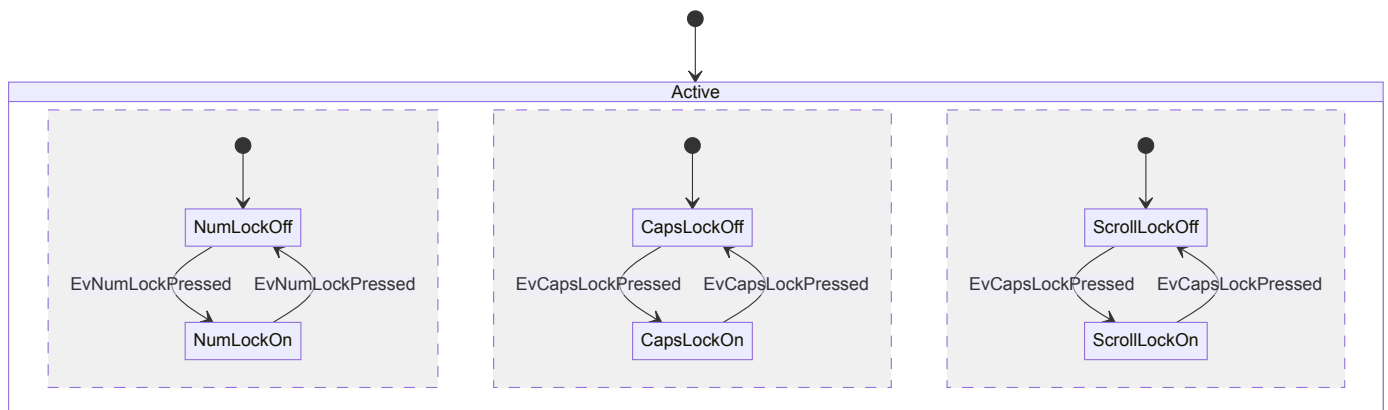
## Concurrency

```

```mermaid
stateDiagram-v2
    [*] --> Active

    state Active {
        [*] --> NumLockOff
        NumLockOff --> NumLockOn : EvNumLockPressed
        NumLockOn --> NumLockOff : EvNumLockPressed
        --
        [*] --> CapsLockOff
        CapsLockOff --> CapsLockOn : EvCapsLockPressed
        CapsLockOn --> CapsLockOff : EvCapsLockPressed
        --
        [*] --> ScrollLockOff
        ScrollLockOff --> ScrollLockOn : EvCapsLockPressed
        ScrollLockOn --> ScrollLockOff : EvCapsLockPressed
    }
    ...

```



Gantt

```

```mermaid
gantt
 dateFormat :YYYY-MM-DD
 title :Adding GANTT diagram functionality to mermaid
 excludes :excludes the named dates/days from being included in a charted task

 section A section
 Completed task :done, des1, 2014-01-06,2014-01-08
 Active task :active, des2, 2014-01-09, 3d
 Future task : des3, after des2, 5d
 Future task2 : des4, after des3, 5d

 section Critical tasks
 Completed task in the critical line :crit, done, 2014-01-06,24h
 Implement parser and json :crit, done, after des1, 2d
 Create tests for parser :crit, active, 3d
 Future task in critical line :crit, 5d
 Create tests for renderer :2d
 Add to mermaid :1d

```

```

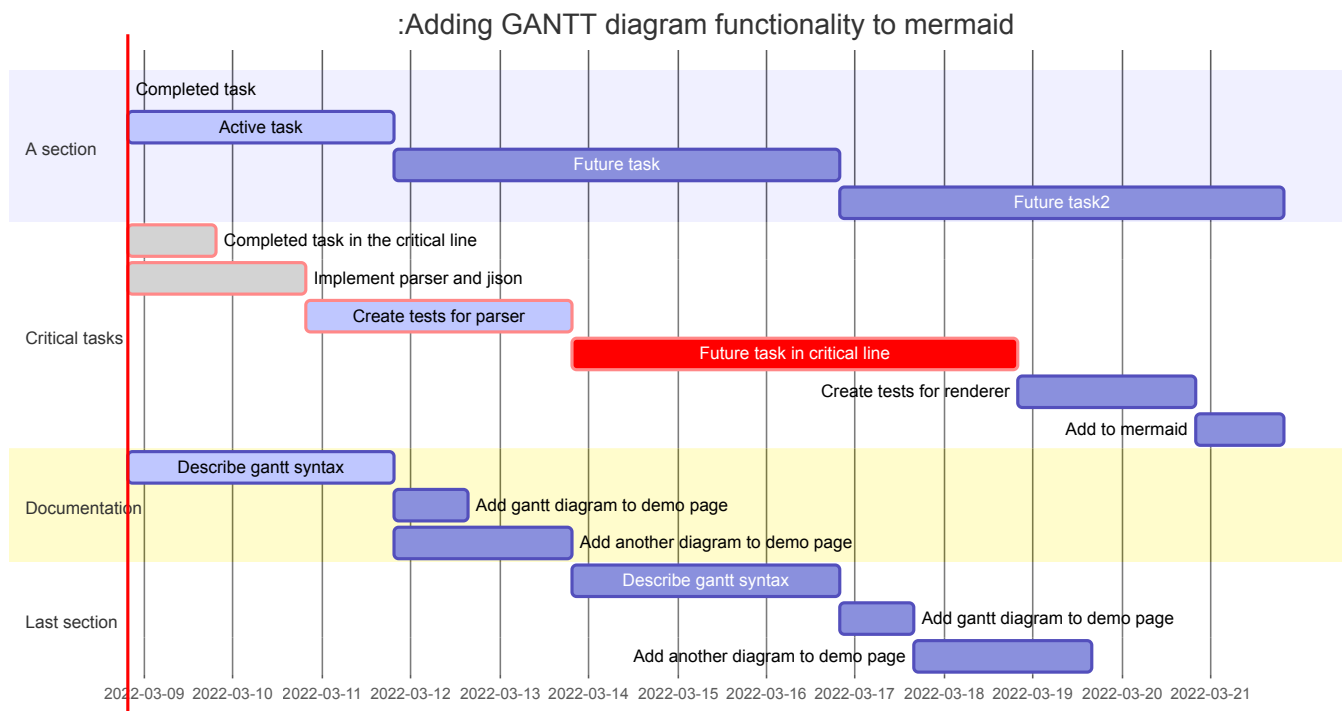
section Documentation
Describe gantt syntax :active, a1, after des1, 3d
Add gantt diagram to demo page :after a1 , 20h
Add another diagram to demo page :doc1, after a1 , 48h

```

```

section Last section
Describe gantt syntax :after doc1, 3d
Add gantt diagram to demo page :20h
Add another diagram to demo page :48h
...

```

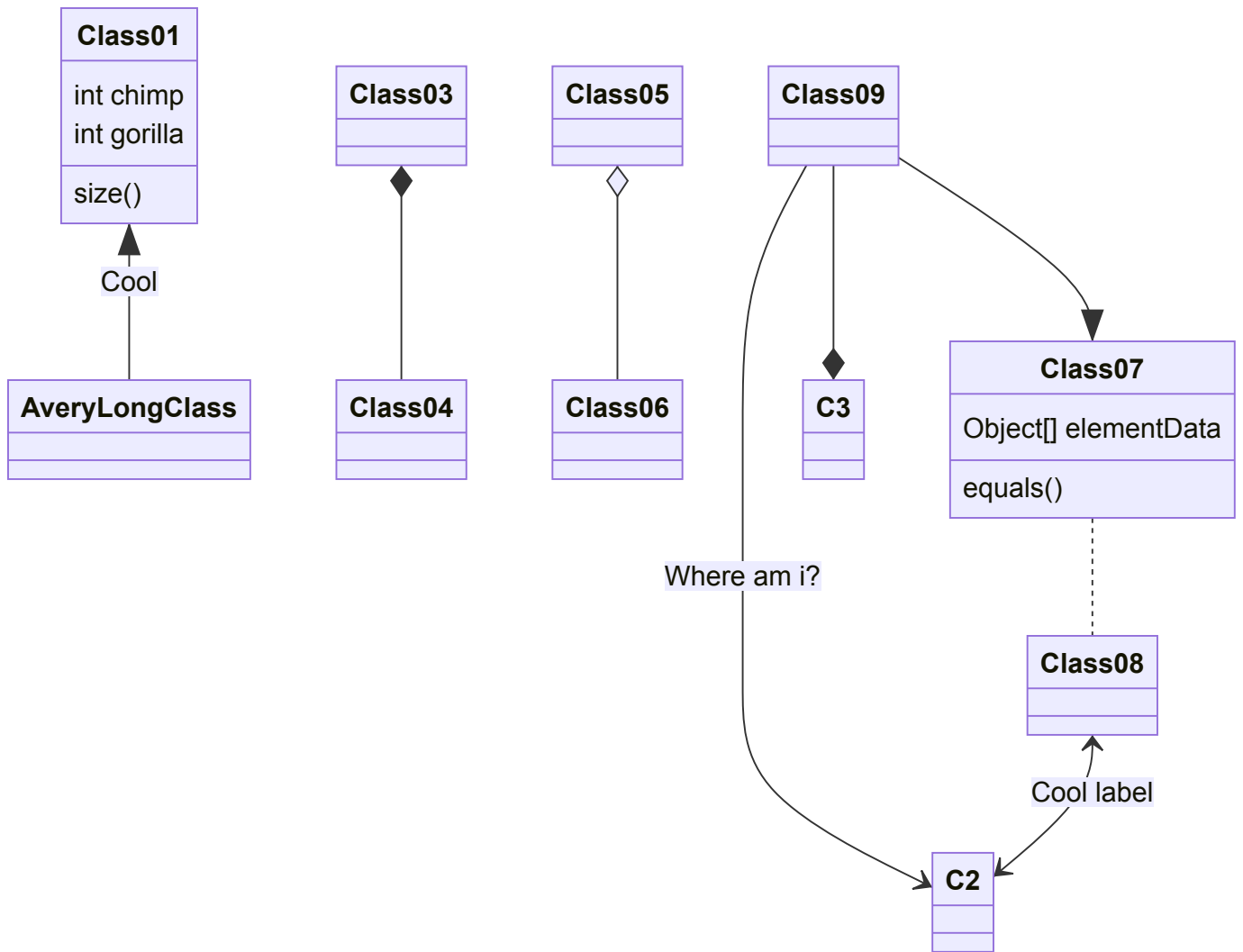


## Class

```

```mermaid
classDiagram
    Class01 <|-- AveryLongClass : Cool
    Class03 *-- Class04
    Class05 o-- Class06
    Class07 .. Class08
    Class09 --> C2 : Where am i?
    Class09 --* C3
    Class09 --|> Class07
    Class07 : equals()
    Class07 : Object[] elementData
    Class01 : size()
    Class01 : int chimp
    Class01 : int gorilla
    Class08 <--> C2: Cool label
...

```



Git

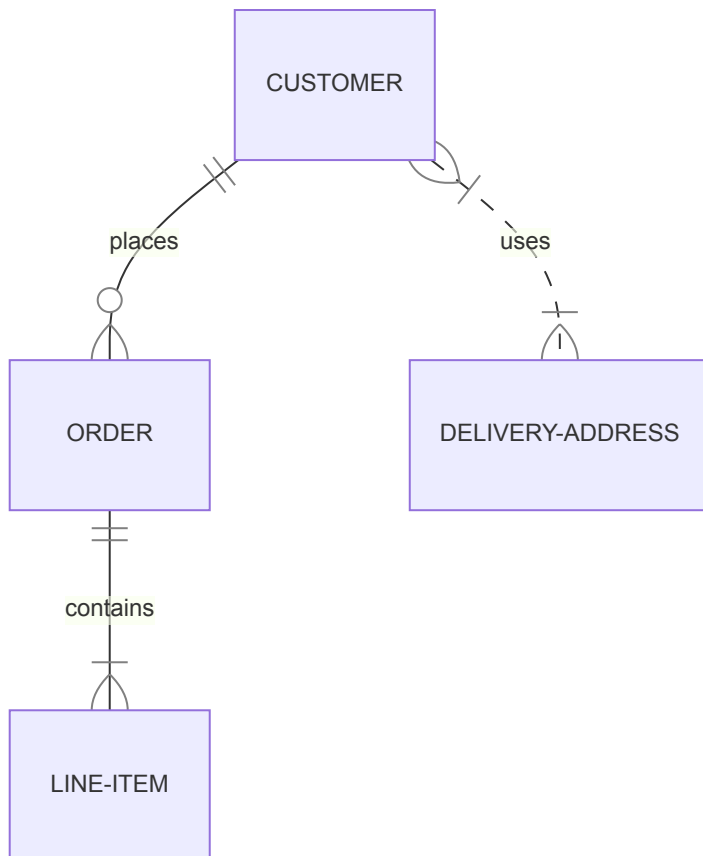
```

```mermaid
gitGraph:
 options
 {
 "nodeSpacing": 150,
 "nodeRadius": 5
 }
 end
 commit
 branch newbranch
 checkout newbranch
 commit
 commit
 checkout master
 commit
 commit
 merge newbranch
```

```

ERDiagram

```
```mermaid
erDiagram
 CUSTOMER ||--o{ ORDER : places
 ORDER ||--|{ LINE-ITEM : contains
 CUSTOMER }|..|{ DELIVERY-ADDRESS : uses
```
```



This document is auto generated, if you find any mistake on it. Please contact us, thank.