
MERMAID

官方地址：

[mermaid](#)

本文仅作基本介绍，只是使用了mermaid中简洁且明了的部分。其余部分建议使用processon等可视化工具进行操作。

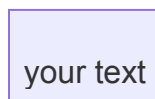
FLOWCHART

H3 基本d语法

添加节点/文本



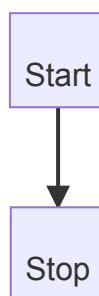
```
flowchart LR
  id[your text]
```



确定方向



```
flowchart TD
  Start --> Stop
```



共有四种方向：

- TB-从上到下
- BT-从下到上

- RL-从右到左
- LR-从左到右

节点形状,来源于官网



```
flowchart LR
    id1(your text)
```

your text

形状很多，列举一下：



```
flowchart LR
    id1(This is the text in the box)
```

This is the text in the box



```
flowchart LR
    id1([This is the text in the box])
```

This is the text in the box



```
flowchart LR
    id1[[This is the text in the box]]
```

This is the text in the box

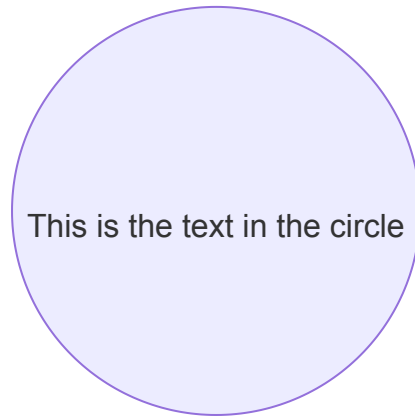


```
flowchart LR
    id1[(Database)]
```

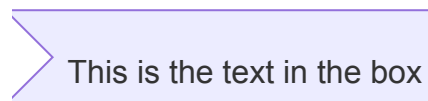
Database



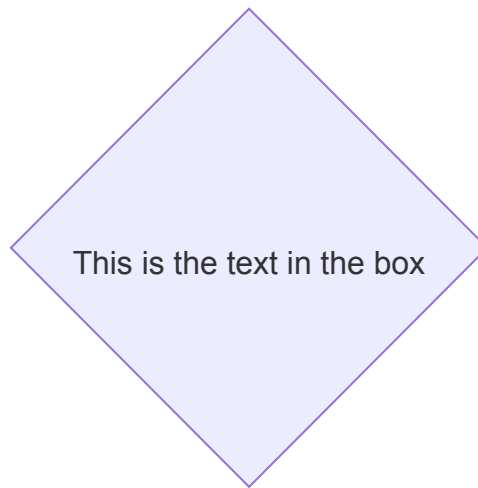
```
flowchart LR
    id1((This is the text in the circle))
```



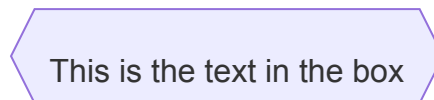
```
flowchart LR
    id1>This is the text in the box]
```



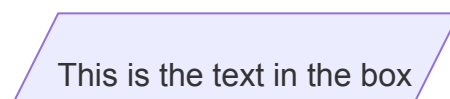
```
flowchart LR
    id1{This is the text in the box}
```



```
flowchart LR
    id1{{This is the text in the box}}
```



```
flowchart TD
    id1[/This is the text in the box/]
```





```
flowchart TD
    id1[This is the text in the box]
```

This is the text in the box



```
flowchart TD
    A[Christmas]
```

Christmas



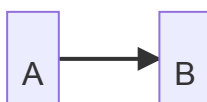
```
flowchart TD
    B[Go shopping]
```

Go shopping

线的形状，来源于官网



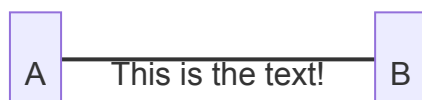
```
flowchart LR
  A-->B
```



```
flowchart LR
  A --- B
```

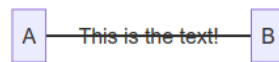


```
flowchart LR
  A-- This is the text! --- B
```



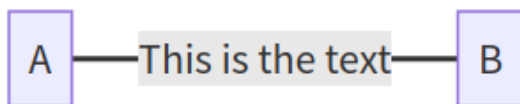
上面展示的线中的文字因为渲染引擎不同，最终效果可能也不同，比如我的typora是直接把文字加上去了：


```
flowchart LR
    A-- This is the text! ---B
```



官网展示的则是：

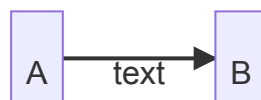
```
flowchart LR
    A---|This is the text|B
```



不建议使用。

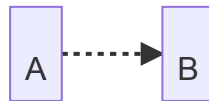


```
flowchart LR
    A-->|text|B
```

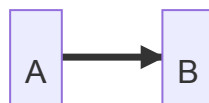




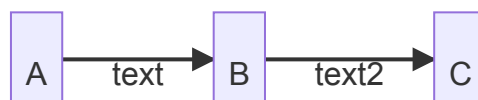
```
flowchart LR;  
  A-.->B;
```



```
flowchart LR  
  A ==> B
```



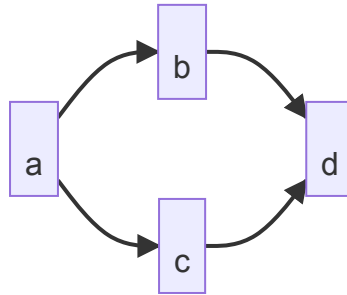
```
flowchart LR  
  A -- text --> B -- text2 --> C
```





flowchart LR

a --> b & c--> d

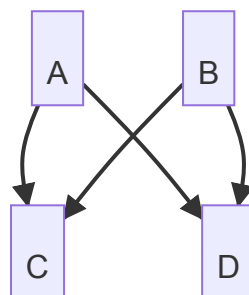


也可以：



flowchart TB

A & B--> C & D



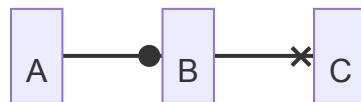
箭头形状：



```
flowchart LR
```

```
  A --o B
```

```
  B --x C
```

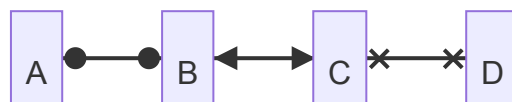


```
flowchart LR
```

```
  A o--o B
```

```
  B <--> C
```

```
  C x--x D
```



线的长度可以通过“-“的个数来指定:



flowchart TD

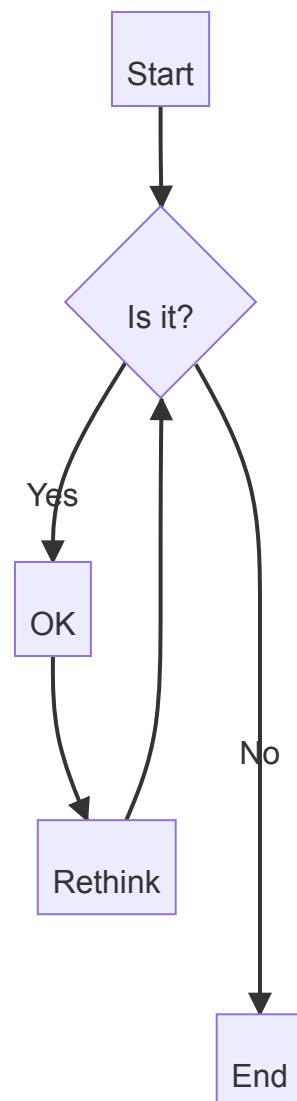
A[Start] --> B{Is it?};

B -->|Yes| C[OK];

C --> D[Rethink];

D --> B;

B ---->|No| E[End];



需要注意的是如果采用 B -- No ----> E[End]; 这种写法，多余的 "-" 必须在 no 的右边

长度有三种，这是官网的展示：

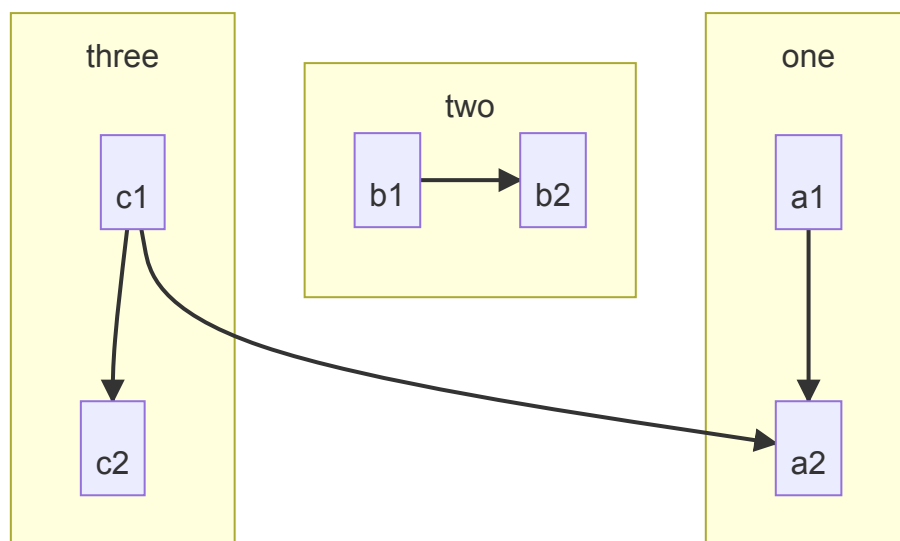
Length	1	2	3
Normal	---	----	-----
Normal with arrow	-->	---->	----->
Thick	===	=====	=====
Thick with arrow	==>	====>	=====>
Dotted	-.-	-...-	-.....-
Dotted with arrow	-.->	-...->	-.....->

一些特殊字符建议查看官方文档：[连接](#)

套图：



```
flowchart TB
    c1-->a2
    subgraph one
        a1-->a2
    end
    subgraph two
        b1-->b2
    end
    subgraph three
        c1-->c2
    end
```



以subgraph和end为标志。

官网余下介绍的是和css,js这些知识结合在一起使用的，然而mermaid的渲染又和渲染引擎有很大关系，不建议画那些花里胡哨的图。真花里胡哨还是直接用js这些吧。

SEQUENCE DIAGRAM

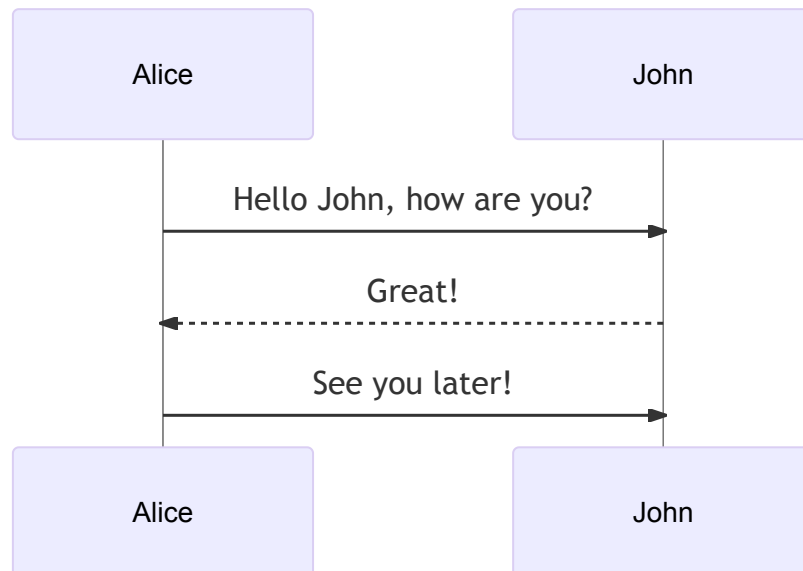
来看例子：

```
sequenceDiagram
```

```
    Alice->>John: Hello John, how are you?
```

```
    John-->>Alice: Great!
```

```
    Alice->John: See you later!
```



注意"-->"是虚线，"->"是直线。不建议用官网中的actor

可以起名字：



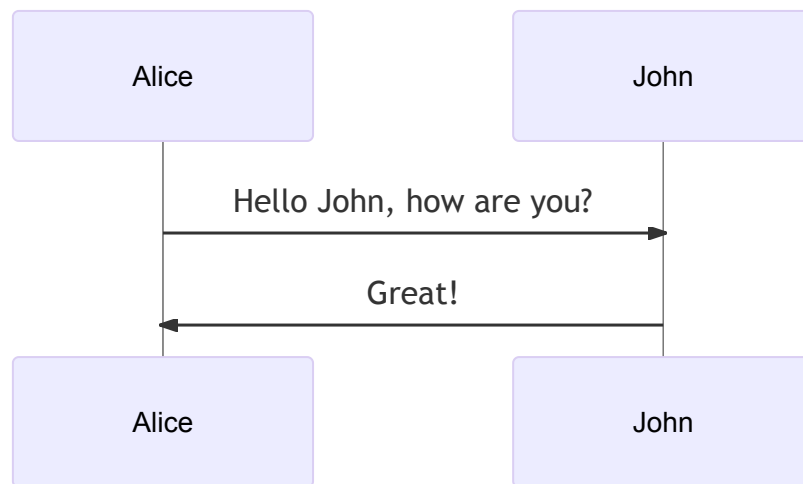
```
sequenceDiagram
```

```
    participant A as Alice
```

```
    participant J as John
```

```
    A->>J: Hello John, how are you?
```

```
    J->>A: Great!
```



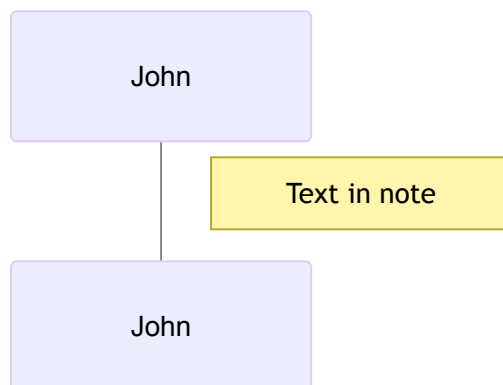
Type	Description
->	Solid line without arrow
-->	Dotted line without arrow
->>	Solid line with arrowhead
-->>	Dotted line with arrowhead

Type	Description
-x	Solid line with a cross at the end
--x	Dotted line with a cross at the end.

官网中提到的activate不在介绍

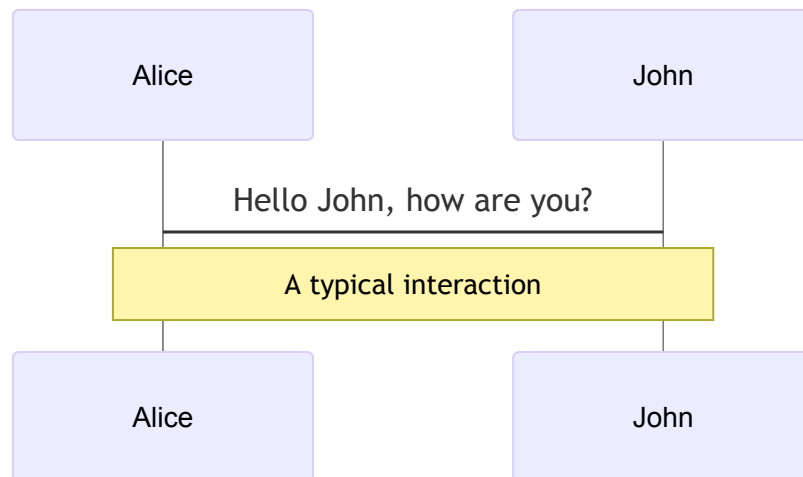
为图添加注释：

```
sequenceDiagram
    participant John
    Note right of John: Text in note
```





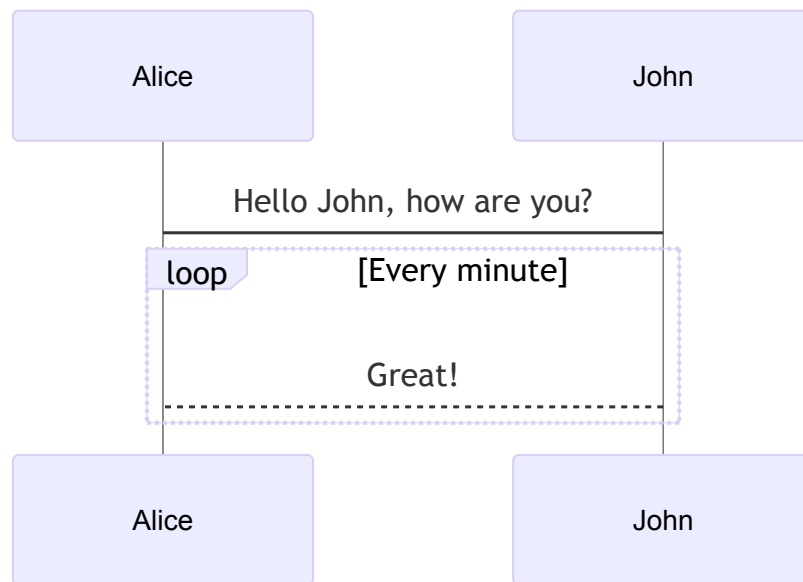
```
sequenceDiagram
    Alice->>John: Hello John, how are you?
    Note over Alice,John: A typical
    interaction
```



添加循环：



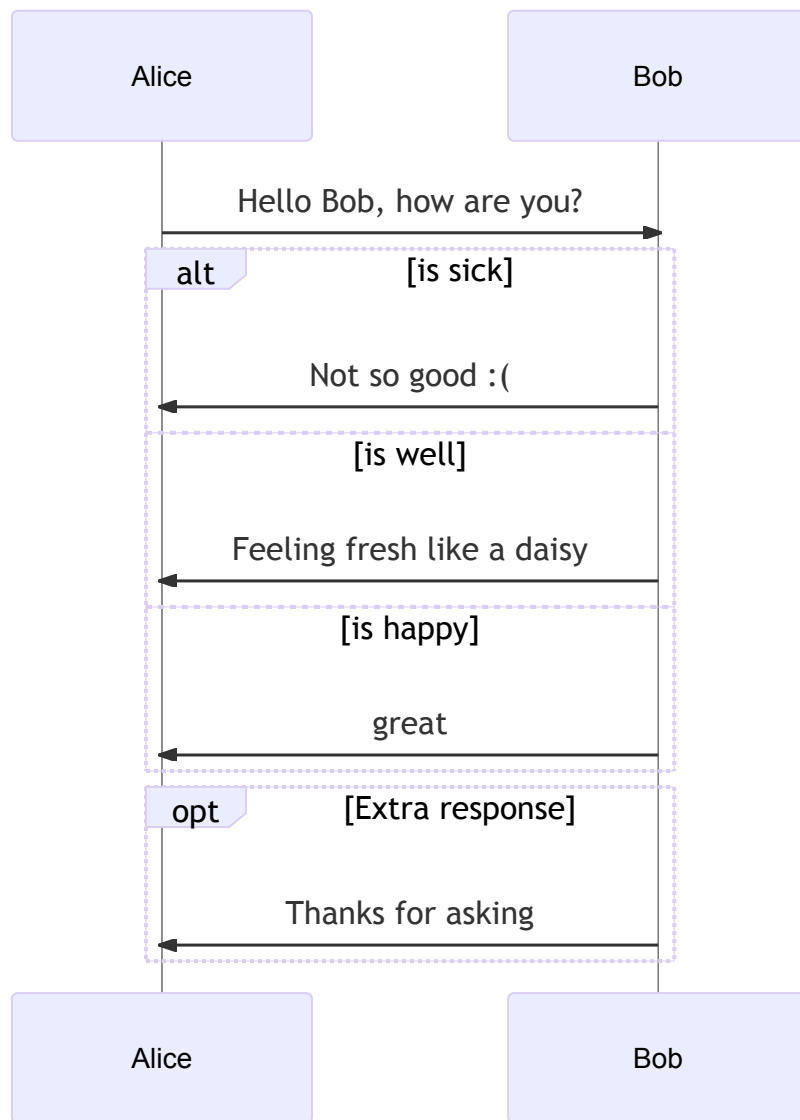
```
sequenceDiagram
    Alice->>John: Hello John, how are you?
    loop Every minute
        John-->>Alice: Great!
    end
```



添加选择：



```
sequenceDiagram
    Alice->>Bob: Hello Bob, how are you?
    alt is sick
        Bob->>Alice: Not so good :(
    else is well
        Bob->>Alice: Feeling fresh like a
daisy
    else is happy
        Bob->>Alice: great
    end
    opt Extra response
        Bob->>Alice: Thanks for asking
    end
end
```



添加同时发生的事情：



sequenceDiagram

par Alice to Bob

Alice->>Bob: Hello guys!

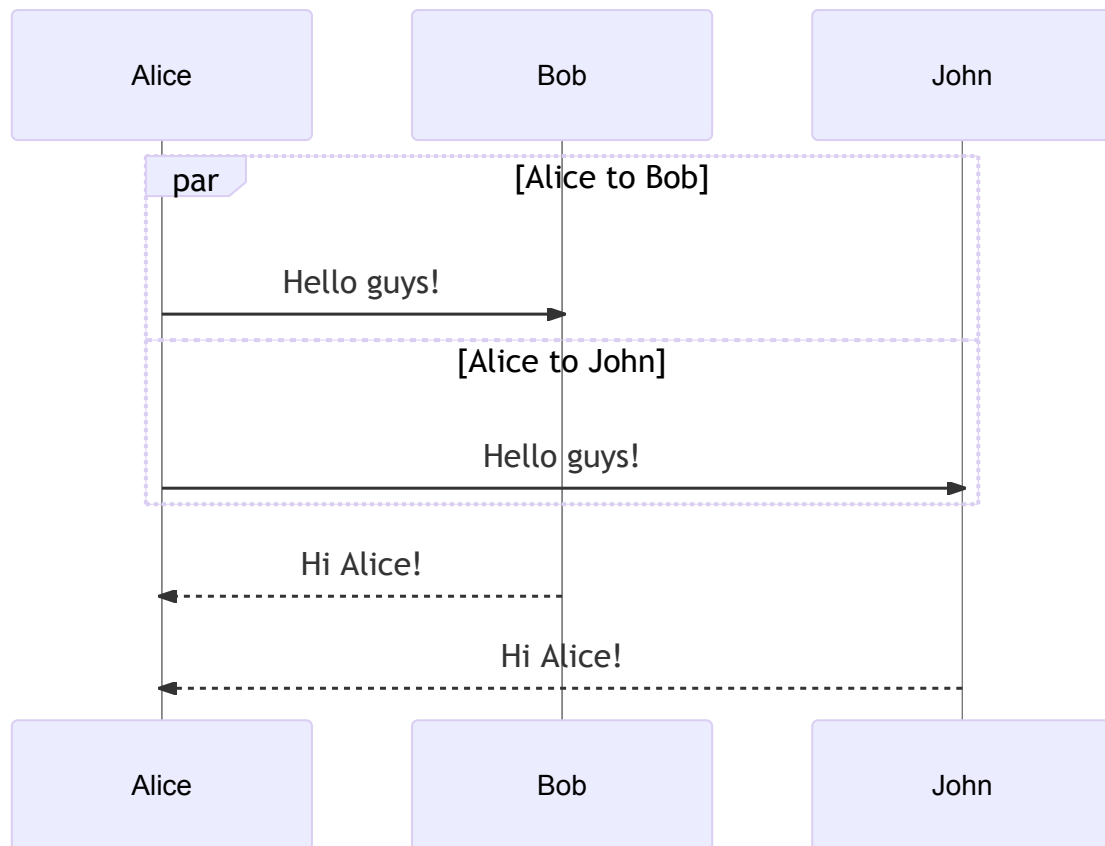
and Alice to John

Alice->>John: Hello guys!

end

Bob-->>Alice: Hi Alice!

John-->>Alice: Hi Alice!



par可以嵌套

GANTT

不需要什么花里胡哨的，直接照着模板做自己的就行：



```
gantt
    dateFormat    YYYY-MM-DD
    title         Adding GANTT diagram
functionality to mermaid
    excludes      weekends
    %% (`excludes` accepts specific dates in
YYYY-MM-DD format, days of the week ("sunday")
or "weekends", but not the word "weekdays".)

    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
```

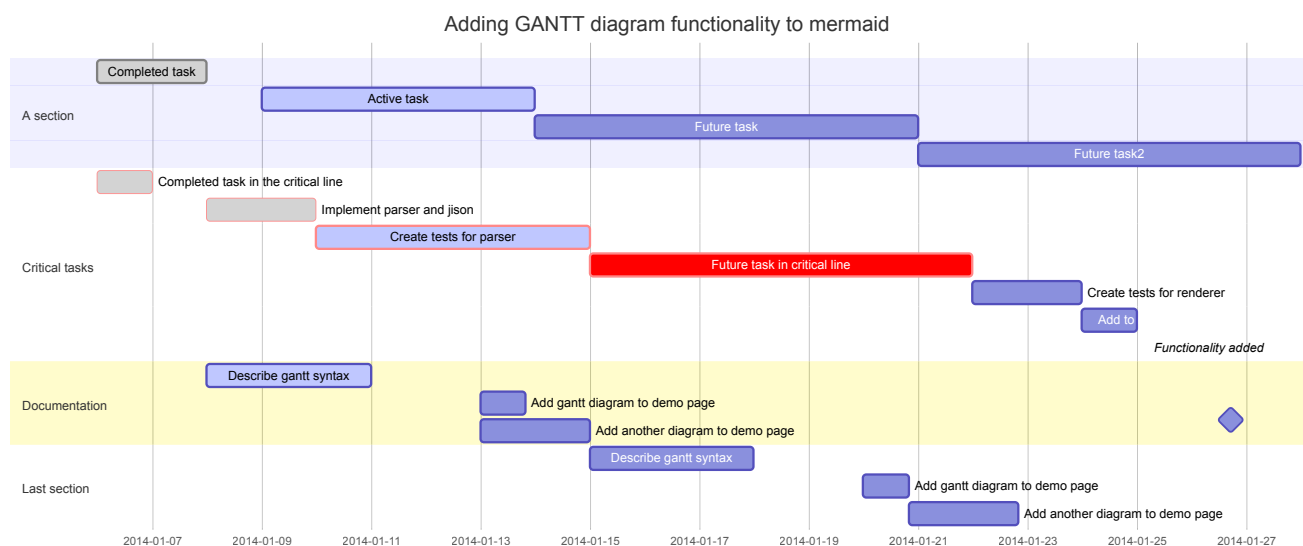
Implement parser and jison :crit,
done, after des1, 2d
Create tests for parser :crit,
active, 3d
Future task in critical line :crit,
5d
Create tests for renderer :2d
Add to mermaid :1d
Functionality added
:milestone, 2014-01-25, 0d

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



USER JOURNEY DIAGRAM

上例子：



journey

title My working day

section Go to work

Make tea: 5: Me

Go upstairs: 3: Me

Do work: 1: Me, Cat

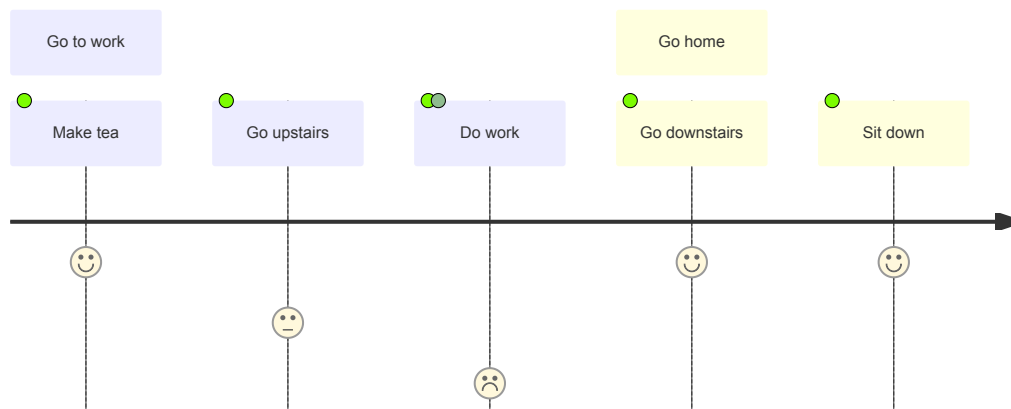
section Go home

Go downstairs: 5: Me

Sit down: 5: Me

My working day

● Cat
● Me



其中make tea等后面的数字是对该事情的打分，分数越高心情越好

PIECHART

饼图语法也很简单：



```
pie
```

```
  title Key elements in Product X
```

```
  "Calcium" : 42.96
```

```
  "Potassium" : 50.05
```

```
  "Magnesium" : 10.01
```

```
  "Iron" : 5
```

Key elements in Product X

