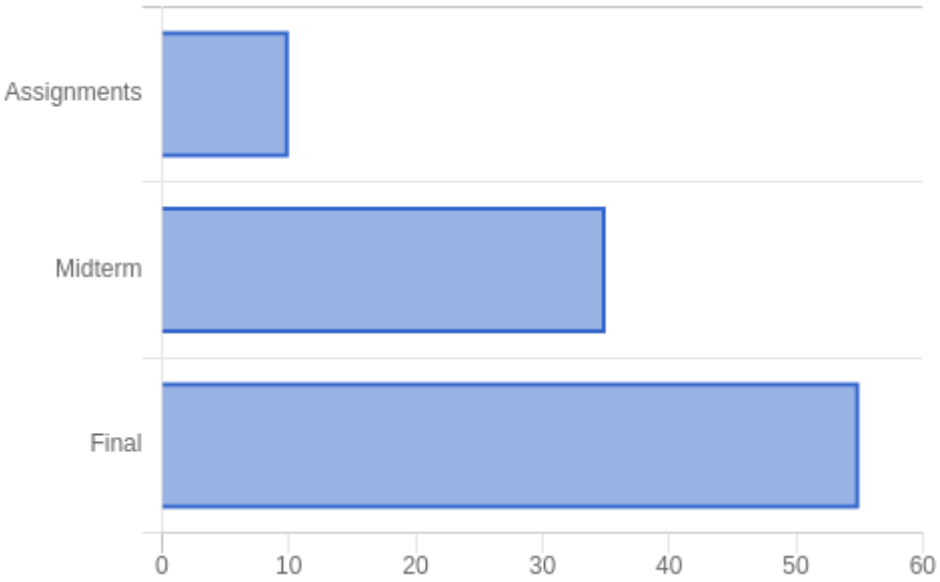
Charts

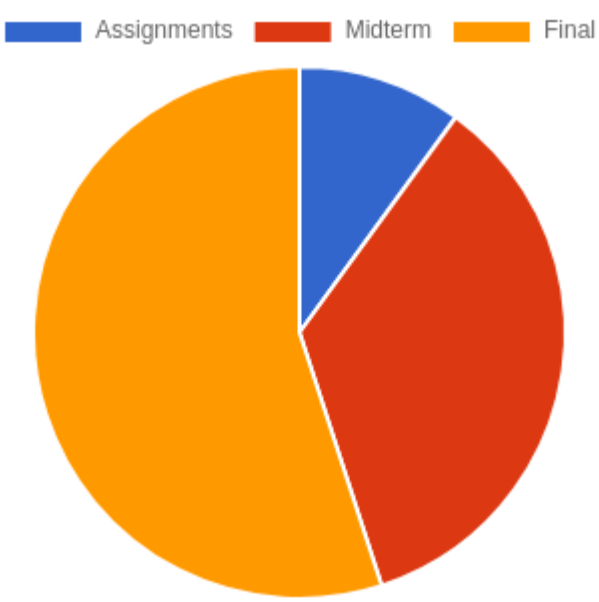
Bar chart

```vue
<bar-chart :data="[
    ['Assignments', 10],
    ['Midterm', 35],
    ['Final', 55]]"
/>
```



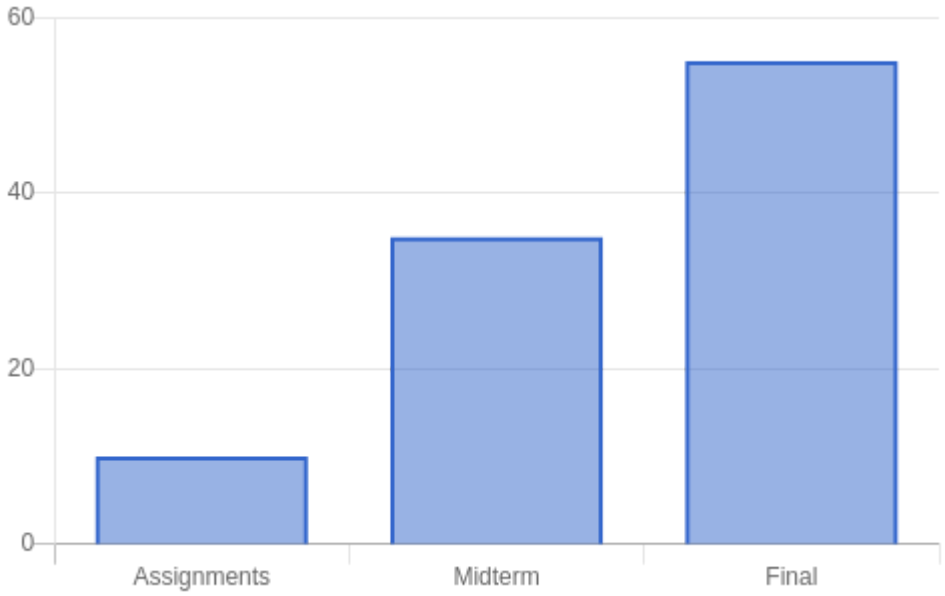
Pie chart

```vue
<pie-chart :data="[
    ['Assignments', 10],
    ['Midterm', 35],
    ['Final', 55]]"
/>
```



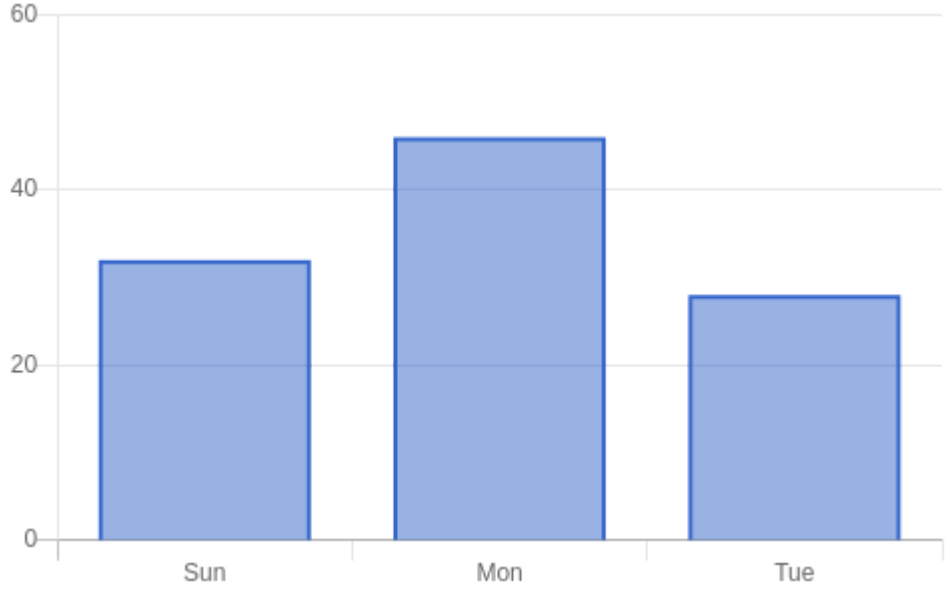
Column chart

```vue
<column-chart :data="[
    ['Assignments', 10],
    ['Midterm', 35],
    ['Final', 55]]"
/>
```



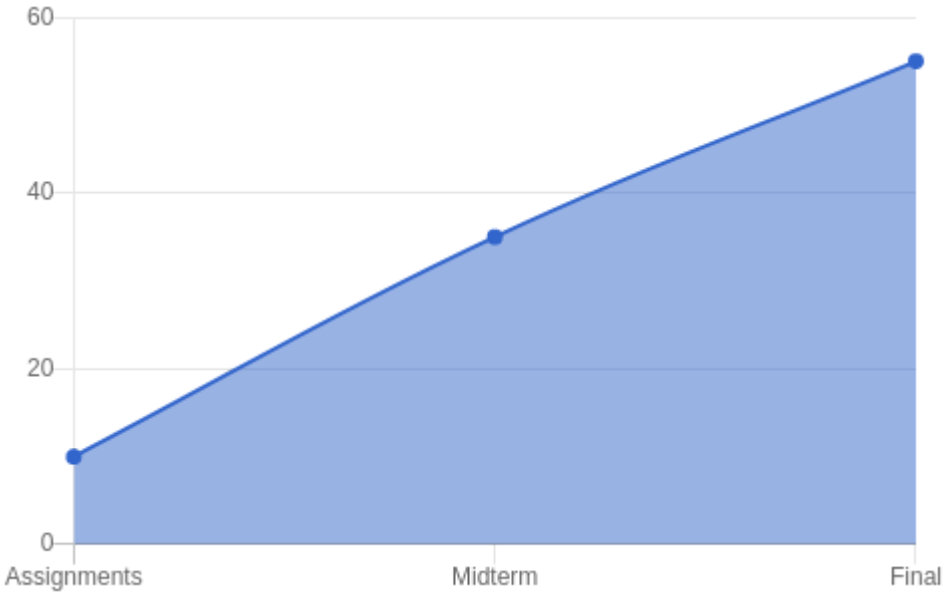
another sample

```vue
<column-chart :data="[
    ['Sun', 32],
    ['Mon', 46],
    ['Tue', 28],
]"/>
```



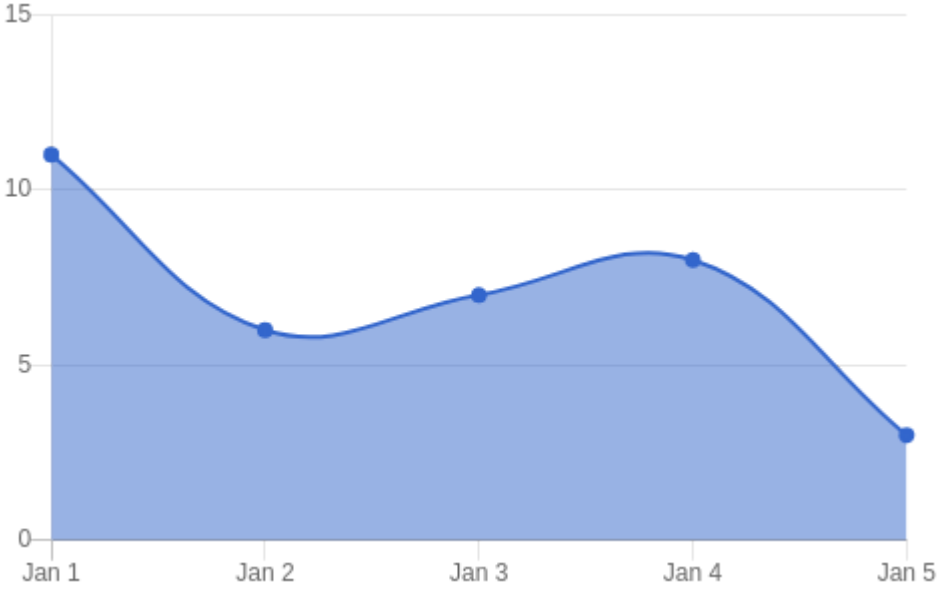
Area chart

```vue
<area-chart :data="[
    ['Assignments', 10],
    ['Midterm', 35],
    ['Final', 55]
]" />
```



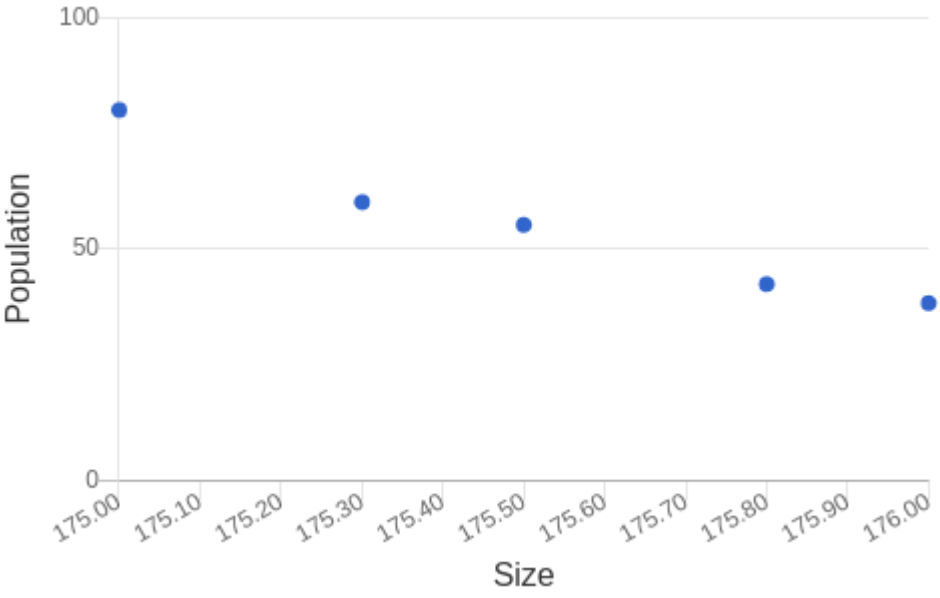
another sample

```vue
<area-chart :data="{
    '2017-01-01': 11,
    '2017-01-02': 6,
    '2017-01-03': 7,
    '2017-01-04': 8,
    '2017-01-05': 3,
}" />
```



Scatter chart

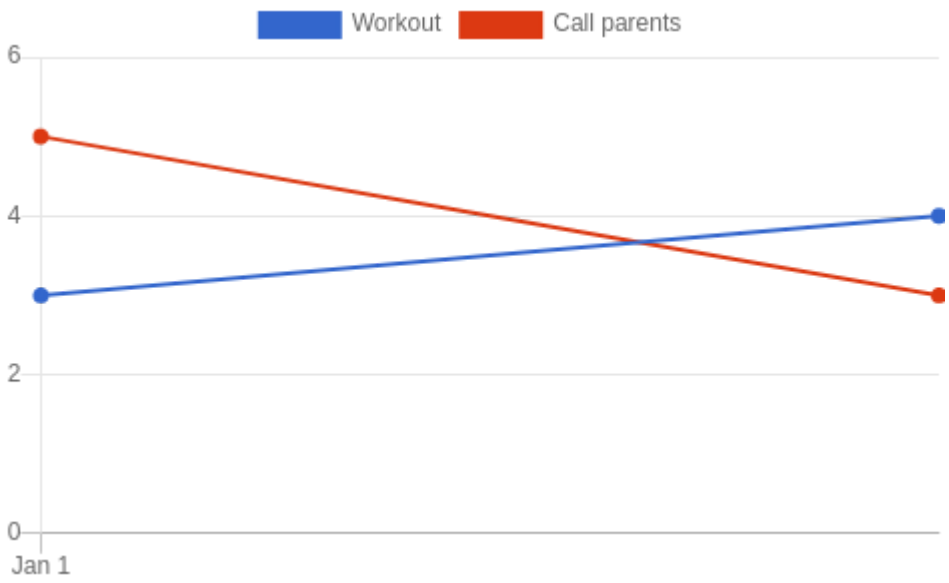
```vue
<scatter-chart
    xtitle="Size"
    ytitle="Population"
    :data="[
        [175.0, 80.0],
        [175.3, 60.1],
        [175.5, 55.2],
        [175.8, 42.4],
        [176.0, 38.3],
    ]"
/>
```



Line chart

```vue
<line-chart :data="[
    { name: 'Workout',      data: { '2017-01-01': 3, '2017-01-02': 4 } },
```

```
    { name: 'Call parents', data: { '2017-01-01': 5, '2017-01-02': 3 } },
]" />
```



Developer Guide

Quickstart new project

Start from documentation:

```sh
mkdir /tmp/1 && wget -qO- https://github.com/daggerok/vuepress-pdf/archive/master.zip
# wget -qO- https://github.com/daggerok/vuepress-pdf/archive/master.zip | tar xvf -
# tar -xvf <(curl -sL https://github.com/daggerok/vuepress-pdf/archive/master.zip)
# jar -xvf <(curl -sL https://github.com/daggerok/vuepress-pdf/archive/master.zip)
mv /tmp/1/vuepress-pdf /tmp/my-new-project
cd /tmp/my-new-project/
# find and replace: vuepress-pdf -> my-new-project
# such as: BASE='/my-new-project/'
vi package.json
vi .vuepress/config.js
```

Build and serve

```sh
npm i -E ; npm run build ; npx serve .vuepress/dist/
```

open http://localhost:8080/ url

Publish via CI

Checkout `.github/workflows/ci.yaml` file to see how easily you can deploy your VuePress docs on GitHub Pages:

```yaml
name: 'GitHub actions'
on:
  push:
    branches: [ master ]
  pull_request:
    branches: [ master ]
jobs:
  github-pages:
    runs-on: ubuntu-latest
    steps:
```

```
      - uses: actions/checkout@v2
      - uses: actions/cache@v2
        id: cache-npm
        with:
          path: ~/.npm
          key: ${{ runner.os }}-${{ hashFiles('**/package.json') }}
      - uses: actions/setup-node@v2
      - run: npm i
      - run: npm run gh-pages
      - run: npm run pdf
      - run: mv site.pdf src/.vuepress/dist/
      - name: Deploy 🚀
        uses: JamesIves/github-pages-deploy-action@4.1.0
        with:
          branch: gh-pages # The branch the action should deploy to.
          folder: src/.vuepress/dist # The folder the action should deploy.
```

That README.md documentation file is compiled and deployed on GitHub Pages

rtfm

- https://friendlyuser.github.io/vuepress-theme-cool-starter
- https://github.com/mermaid-js/mermaid
- https://github.com/KaTeX/KaTeX

VuePress

Diagrams quickstart

Get Started →

Mermaid

Mermaid diagrams, such as class, graph, sequence, gantt, state

UML

UML diagrams, like mind-maps, nodes, steps, flows, solidity diagraphs

Charts and Math

Charts bar, pie, column, line, area, scatter are available, as well as math formulas

vuepress-pdf 

Quick and fast rapid VuePress documentation diagrams development

Checkout site.pdf file

Made by Maksim Kostromin with ❤️ 🤘

Math

```
$x^2 + x_2 = x_2 + x^2$
```

$x_2 + x^2 = x_2 + x^2$

yet another sample

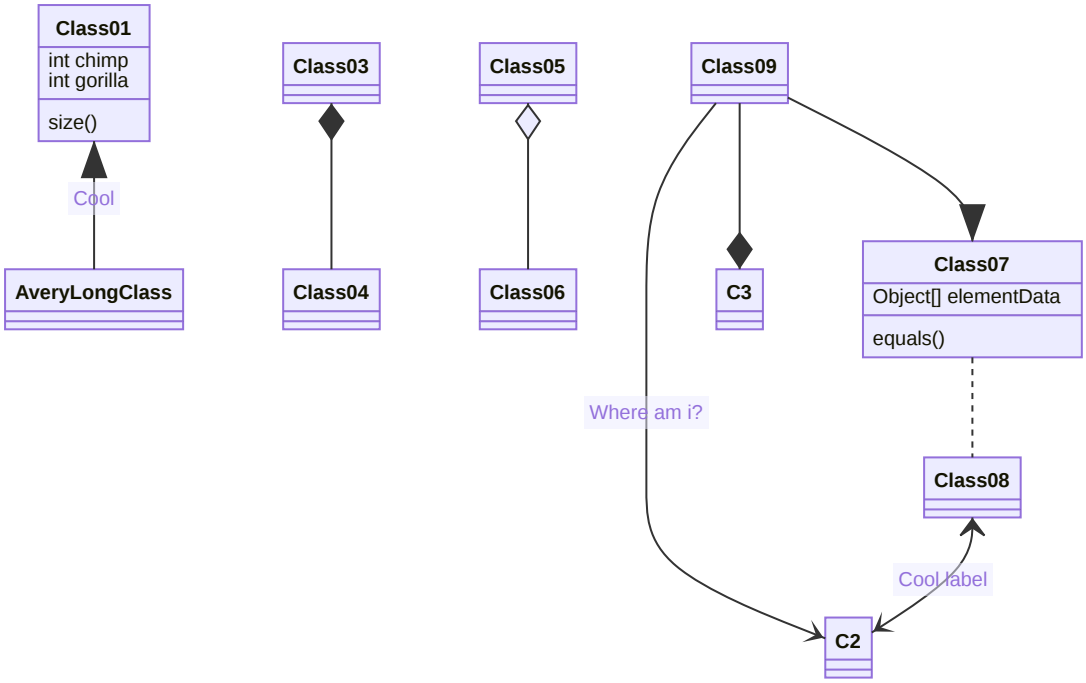
```
$$x^2 + x = x + x^2$$
```

$$x_2 + x = x + x_2$$

Mermaid

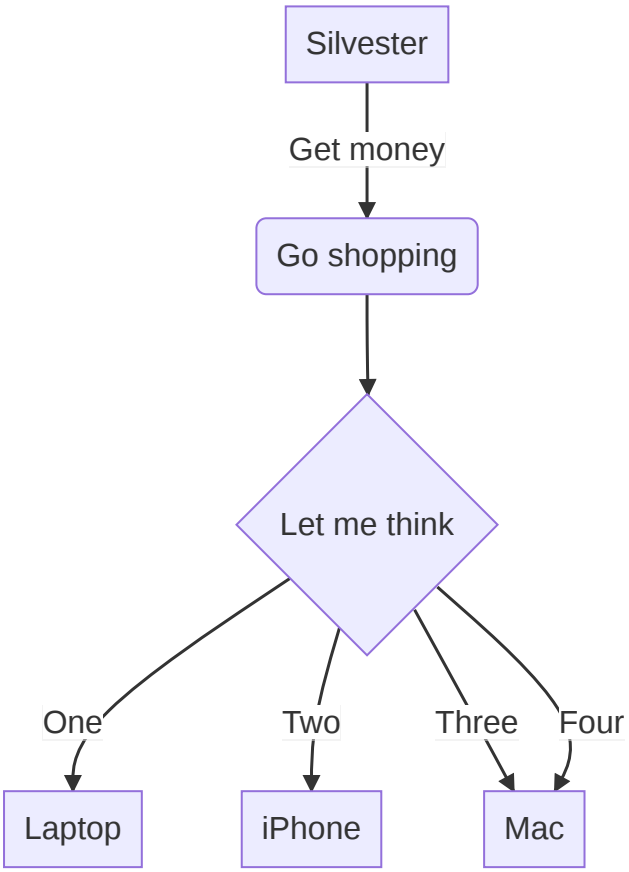
Class diagram

```
<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
</mermaid>
```



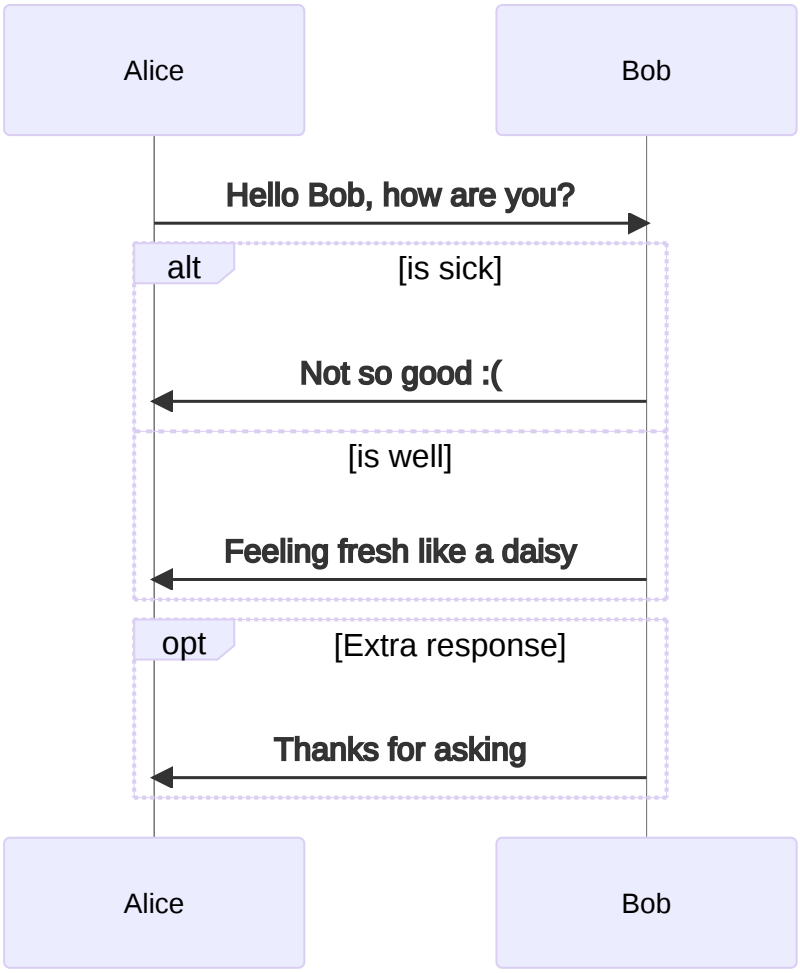
Graph

```
<mermaid>
graph TD
  A[Silvester] -->|Get money| B(Go shopping)
  B --> C{Let me think}
  C -->|One| D[Laptop]
  C -->|Two| E[iPhone]
  C -->|Three| F[Car]
  C -->|Four| F[Mac]
</mermaid>
```



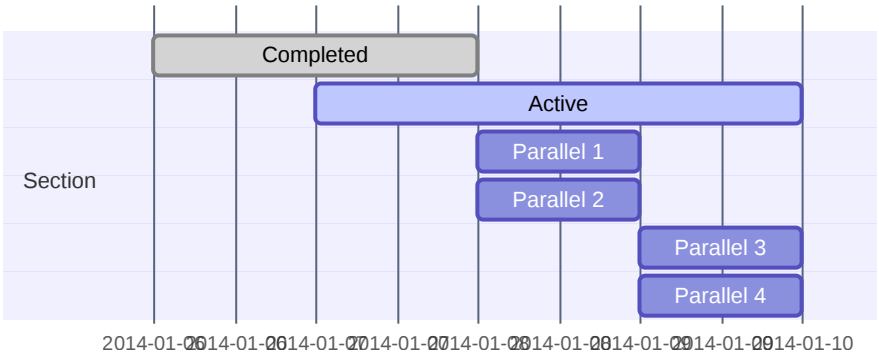
Sequence diagram

```
<mermaid>
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
    end
    opt Extra response
        Bob->>Alice: Thanks for asking
    end
</mermaid>
```



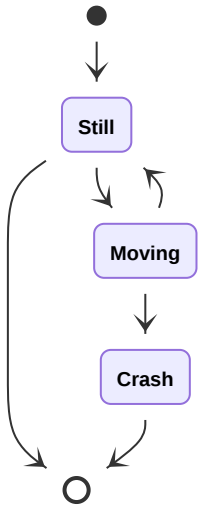
Gantt diagram

```
<mermaid>
gantt
section Section
Completed    :done,    des1, 2014-01-06, 2014-01-08
Active       :active,  des2, 2014-01-07, 3d
Parallel 1   :         des3, after des1, 1d
Parallel 2   :         des4, after des1, 1d
Parallel 3   :         des5, after des3, 1d
Parallel 4   :         des6, after des4, 1d
</mermaid>
```



Mermaid 8.4.3+ => State diagram

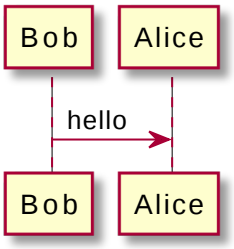
```
<mermaid>
stateDiagram
  [*] --> Still
  Still --> [*]
  Still --> Moving
  Moving --> Still
  Moving --> Crash
  Crash --> [*]
</mermaid>
```



UML

PlantUml

```
@startuml
Bob -> Alice : hello
@enduml
```



MindMap

```
@startuml
@startmindmap

title My super title

* <&flag>Debian
** <&globe>Ubuntu
*** Linux Mint
*** Kubuntu
*** Lubuntu
*** KDE Neon
** <&graph>LMDE
** <&pulse>SolydXK
** <&people>SteamOS
** <&star>Raspbian with a very long name
*** <s>Raspmbc</s> => OSMC
*** <s>Raspyfi</s> => Volumio

caption figure 1

@endmindmap
@enduml
```

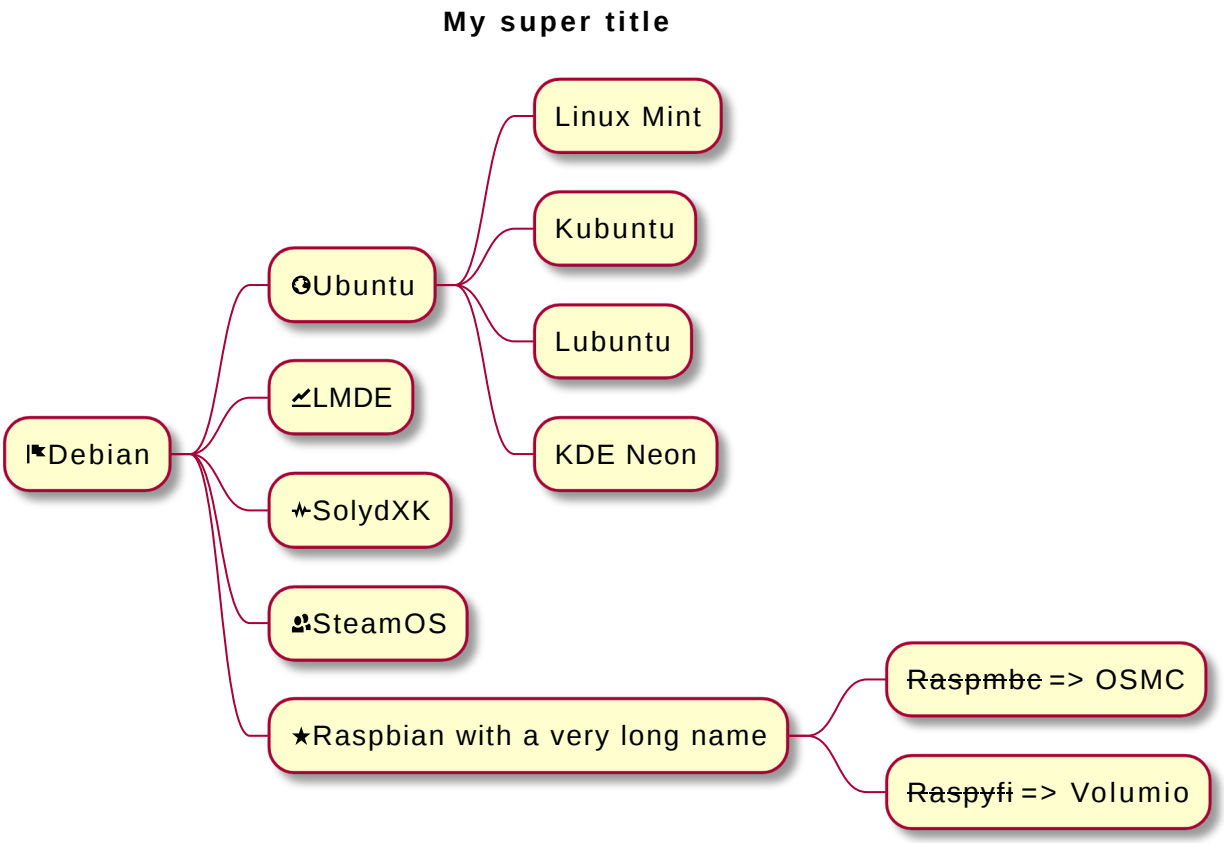
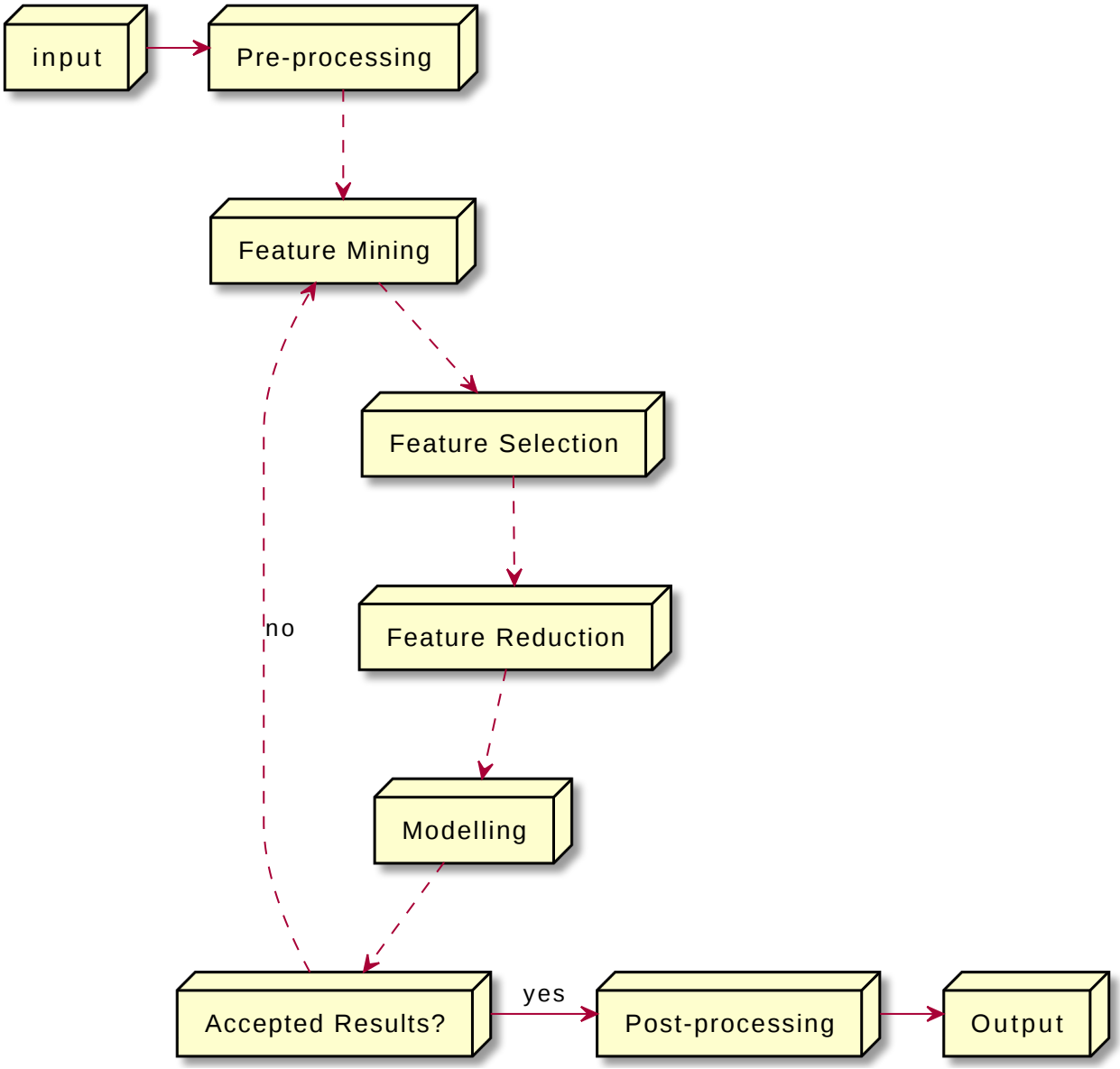


figure 1

Nodes

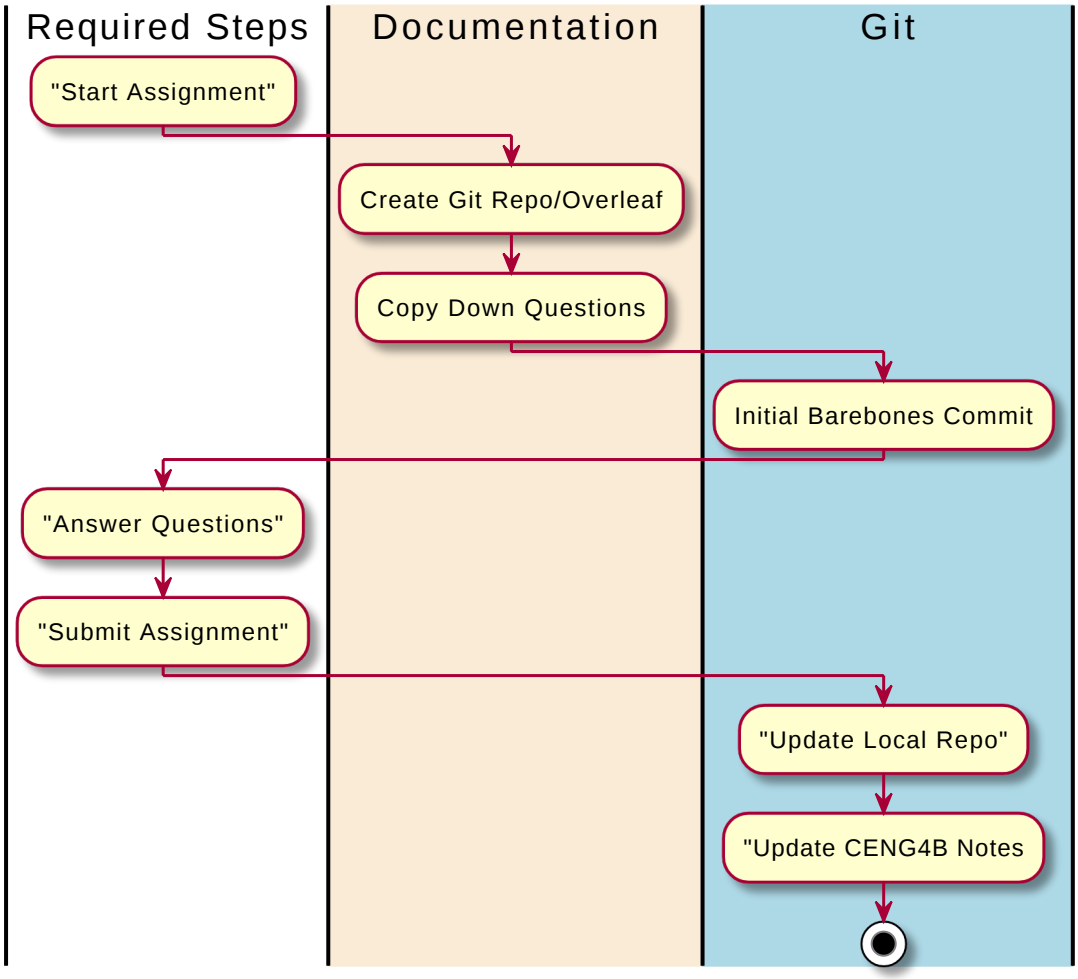
```
@startuml
node in as "input"
node p as "Pre-processing"
node fm as "Feature Mining"
node fs as "Feature Selection"
node fr as "Feature Reduction"
node m as "Modelling"
node a as "Accepted Results?"
node pp as "Post-processing"
node o as "Output"

in -> p
p ..> fm
fm ..> fs
fs ..> fr
fr ..> m
m ..> a
a ..> fm : no
a -> pp : yes
pp -> o
@enduml
```



Steps flow

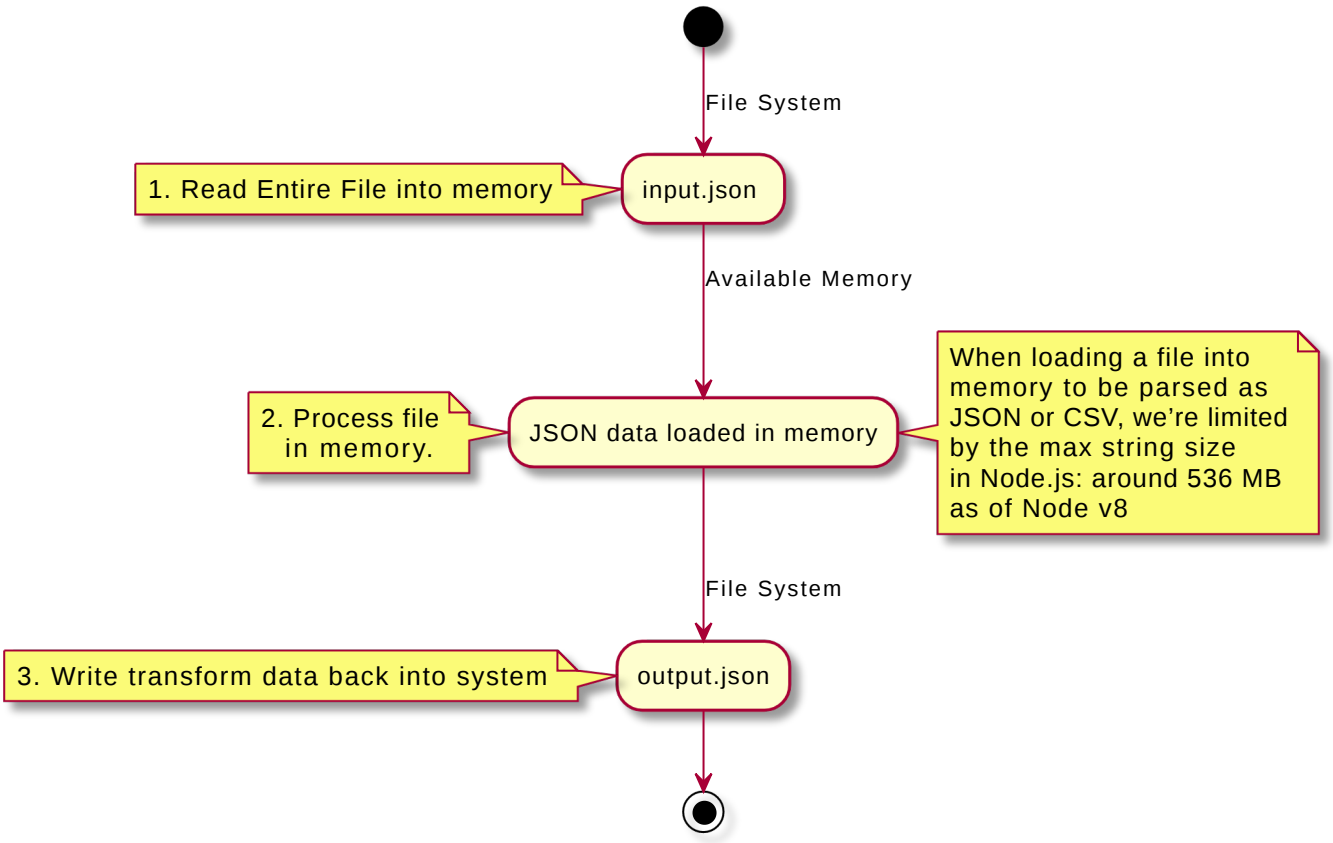
```
@startuml
  |Required Steps|
  :"Start Assignment";
  |#AntiqueWhite|Documentation|
  :Create Git Repo/Overleaf;
  :Copy Down Questions;
  |#LightBlue|Git|
  :Initial Barebones Commit;
  |Required Steps|
  :"Answer Questions";
  :"Submit Assignment";
  |Git|
  :"Update Local Repo";
  :"Update CENG4B Notes;
  stop
@enduml
```



Notes flow

```
@startuml
(*) --> [File System] "input.json "
note left
1. Read Entire File into memory
   end note
   --> [Available Memory] "JSON data loaded in memory"
   note left
2. Process file
   in memory.
   end note
   note right
   When loading a file into
   memory to be parsed as
   JSON or CSV, we're limited
   by the max string size
   in Node.js: around 536 MB
   as of Node v8
   end note
   --> [File System] "output.json"
   note left
3. Write transform data back into system
   end note
```

```
   --> (*)
@enduml
```

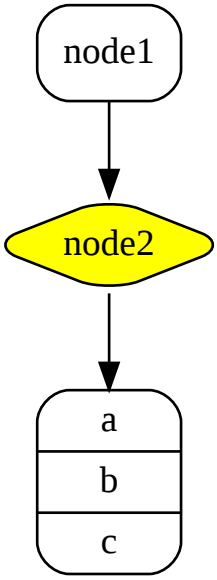


Solidity Diagraph

sample 1

```
@startuml
digraph foo {
  node [style=rounded]
  node1 [shape=box]
  node2 [fillcolor=yellow, style="rounded,filled", shape=diamond]
  node3 [shape=record, label="{ a | b | c }"]

  node1 -> node2 -> node3
}
@enduml
```



sample 2

```
@startuml
strict digraph cool {
  exists [color=blue]
  authenticate [color=blue]
  require
  create
  UserCreated
  destroy
  UserDestroyed
  get [color=blue]
  authenticate -> require
  create -> UserCreated
  destroy -> require
  destroy -> UserDestroyed
  get -> require
}
@enduml
```