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- 1. Mermaid Graph
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- 3. Mermaid Mindmap
- 4. Mermaid XY Chart

Content

- 1.Mermaid Graph
 - 1.1 Basic Graph

```
graph TD
```

A[Start] --> B[Step 1]

B --> C[Step 2]

C --> D[Step 3]

D --> E[End]

1.2 Graph with Conditionals

graph TD

A[Start] --> B{Decision}

B -- Yes --> C[Step 1]

B -- No --> D[Step 2]

C --> E[End]

D --> E[End]

1.3 Looping for Graph

graph TD

A[Start] --> B{Condition}

B -- True --> C[Action]

C --> B

B -- False --> D[End]

1.4 Subgraph

graph TD

A[Start] --> B[Step 1]

B --> C[Step 2]

subgraph SubProcess

C --> D[Step 3]

D --> E[Step 4]

end

```
E --> F[End]
1.5 Parallel Paths for Graph
graph TD
A[Start] --> B[Step 1]
B --> C1[Step 2.1]
B --> C2[Step 2.2]
C1 --> D[Step 3]
C2 --> D[Step 3]
D --> E[End]
1.6 Different Node Shapes for Graph
graph TD
A([Start]) --> B([Step 1])
B --> C{Decision}
C --> | Yes | D[Square Node]
C --> | No | E((Round Node))
D \longrightarrow F((End))
E --> F
1.7 Left to Right Directions for Graph
graph LR
A[Start] --> B[Step 1]
B --> C[Step 2]
C --> D[End]
```

2 Mermaid Pie Chart

Start with `pie` keyword to begin the diagram.

`showData` to render the actual data values after the legend text, his is OPTIONAL

Followed by `title` keyword and its value in string to give a title to the pie-chart. This is OPTIONAL

Followed by dataSet. Pie slices will be ordered clockwise in the same order as the labels.

label for a section in the pie diagram within " " quotes.

Followed by: colon as separator

Followed by positive numeric value (supported up to two decimal places)

Example Pie chart like below

pie title Key elements in Product X

"Calcium" : 42.96 "Potassium" : 50.05 "Magnesium" : 10.01

"Iron": 5

3 Mermaid Mindmap

Example Mind map with 3 layers . layer1(root), layer2(A,B,C), layer3(A1,B1,C1). Space is used to separate a layer.

mindmap

Root

Α

Α1

В

В1

С

C1

4 Mermaid XY Chart

4.1 Orientations: The chart can be drawn horizontal or vertical, default value is vertical.

`xychart-beta horizontal` or `xychart-beta vertical` or `xychart-beta`

- 4.2 Title: The title is a short description of the chart and it will always render on top of the chart.
- 4.3 x-axis: The x-axis primarily serves as a categorical value, although it can also function as a numeric range value when needed.

x-axis title min --> max x-axis will function as numeric with the given range

x-axis "title with space" [cat1, "cat2 with space", cat3] x-axis if categorical, categories are text type

4.4 y-axis: The y-axis is employed to represent numerical range values, it cannot have categorical values. y-axis title min --> max

y-axis title it will only add the title, the range will be auto generated from data.

4.5 Bar chart: A bar chart offers the capability to graphically depict bars.

bar [2.3, 45, .98, -3.4]

4.6 Both x and y axis are optional if not provided mermaid will try to create the range

xychart-beta title "Sales Revenue" x-axis [jan, feb, mar, apr, may] y-axis "Revenue (in \$)" 4000 --> 9000 bar [5000, 6000, 7500]