## **III** How to Create Gantt Charts with Mermaid.js

Gantt charts are an excellent way to visualize timelines, tasks, and dependencies in a project. With Mermaid.js, you can create Gantt charts using a simple text-based syntax that's perfect for developers and project managers alike.

### Step 1: Include Mermaid.js in Your HTML

First, add Mermaid as a module in your HTML document:

```
<script type="module">
 import mermaid from 'https://cdn.jsdelivr.net/npm/mermaid@10/dist/mermaid.esm.min.mjs';
 mermaid.initialize({ startOnLoad: true });
</script>
```

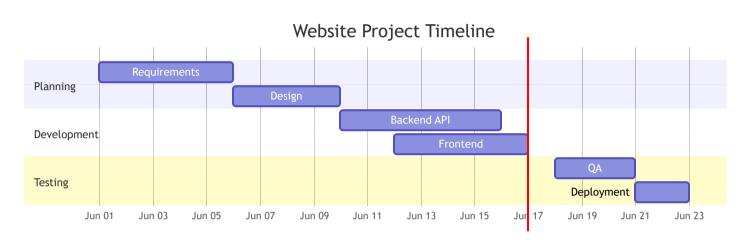
Now you're ready to start rendering Gantt charts inside elements with the class mermaid.

#### **Name : Control :** Basic Gantt Chart Syntax

A Gantt chart starts with the keyword gantt. You can define a title, date format, and axis formatting using directives. Then you define tasks under sections.

```
<div class="mermaid">
gantt
 title Website Project Timeline
 dateFormat YYYY-MM-DD
 axisFormat %b %d
 section Planning
 Requirements :a1, 2025-06-01, 5d
             :after al, 4d
 section Development
 Backend API :2025-06-10, 6d
           :2025-06-12, 5d
 Frontend
 section Testing
              :2025-06-18, 3d
 Deployment :2025-06-21, 2d
</div>
```

#### **Rendered Example:**



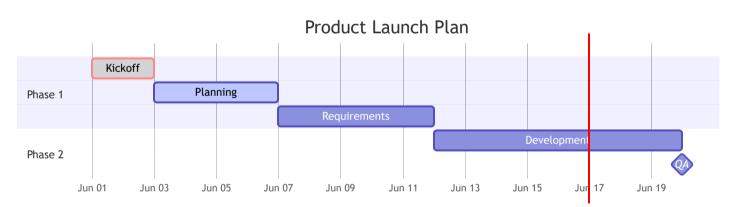
#### Gantt Syntax Explained

- title Sets the chart's title
- dateFormat Specifies input date format (e.g. YYYY-MM-DD)
- axisFormat Customizes how dates appear on the axis (e.g. %b %d = Jun 16)
- section Groups tasks under a label
- Tasks are written as: Task Name :id, start\_date, duration
- You can chain tasks using :after task\_id or :crit, milestone, active for status styling

## **?** Task Styling and Statuses

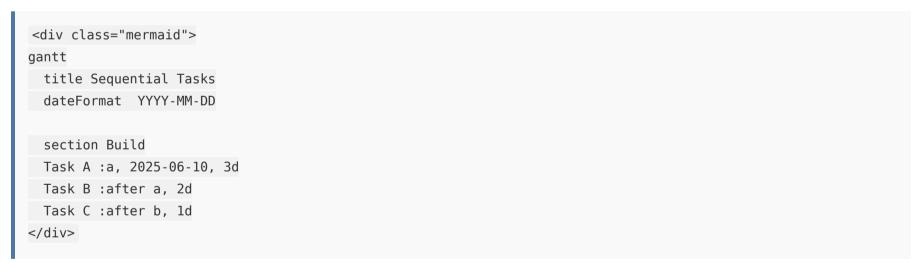
Mermaid allows you to add visual styling to indicate critical paths, active tasks, and milestones:

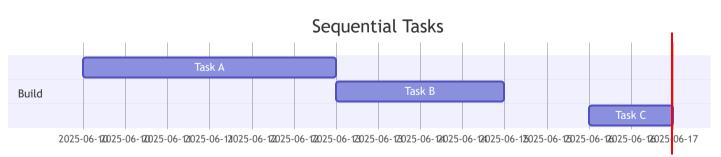
```
<div class="mermaid">
gantt
 title Product Launch Plan
 dateFormat YYYY-MM-DD
 axisFormat %b %d
 section Phase 1
 Kickoff
               :crit, done, 2025-06-01, 2d
 Planning
               :active, 2025-06-03, 4d
 Requirements :2025-06-07, 5d
 section Phase 2
 Development :2025-06-12, 8d
 QA
               :milestone, 2025-06-20, 0d
</div>
```



## **Openation** Dependencies Using after

Use :after task\_id to specify that a task should begin immediately after another ends:





## **Advanced: Using External Configuration**

You can apply theming and global configurations using a Mermaid directive at the top of the diagram:

```
<div class="mermaid">
%{ init: { "theme": "forest" } }%
 title Custom Styled Gantt
 dateFormat YYYY-MM-DD
 section Tasks
 Alpha :done, 2025-06-01, 3d
 Beta :active, 2025-06-04, 3d
</div>
```



# **E** Resources and Reference

This tutorial is based on the official Mermaid documentation for Gantt charts. For all options, refer to: https://mermaid.js.org/syntax/gantt.html

## Summary

- Mermaid makes Gantt chart creation fast and code-friendly
- Define tasks, timelines, and dependencies with simple syntax
- Supports customization, sections, and styling for clarity • Works well in docs, blogs, PM tools, and dev sites

Use Mermaid to embed live, editable Gantt charts in your documentation without ever needing design tools. It's a great fit for

modern dev workflows!