



Creating diagrams

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Create diagrams to convey information through charts and graphs

About creating diagrams &

You can create diagrams in Markdown using three different syntaxes: mermaid, geoJSON and topoJSON, and ASCII STL. Diagram rendering is available in GitHub Issues, GitHub Discussions, pull requests, wikis, and Markdown files.

Creating Mermaid diagrams &

Mermaid is a Markdown-inspired tool that renders text into diagrams. For example, Mermaid can render flow charts, sequence diagrams, pie charts and more. For more information, see the <u>Mermaid documentation</u>.

To create a Mermaid diagram, add Mermaid syntax inside a fenced code block with the mermaid language identifier. For more information about creating code blocks, see "Creating and highlighting code blocks."

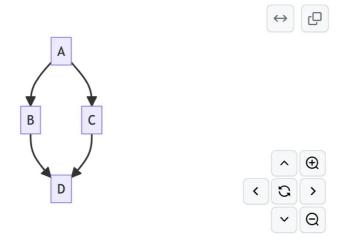
For example, you can create a flow chart by specifying values and arrows.

```
Here is a simple flow chart:

```mermaid
graph TD;
 A-->B;
 A-->C;
 B-->D;
 C-->D;

```
```

Here is a simple flow chart:



Note: You may observe errors if you run a third-party Mermaid plugin when using Mermaid syntax on GitHub.

Creating GeoJSON and TopoJSON maps &

You can use GeoJSON or TopoJSON syntax to create interactive maps. To create a map, add GeoJSON or TopoJSON inside a fenced code block with the geojson or topojson syntax identifier. For more information, see "Creating and highlighting code blocks."

To display interactive maps, a site administrator must configure the feature for your GitHub Enterprise Server instance. For more information, see "Configuring applications."

Using GeoJSON &

For example, you can create a map by specifying coordinates.

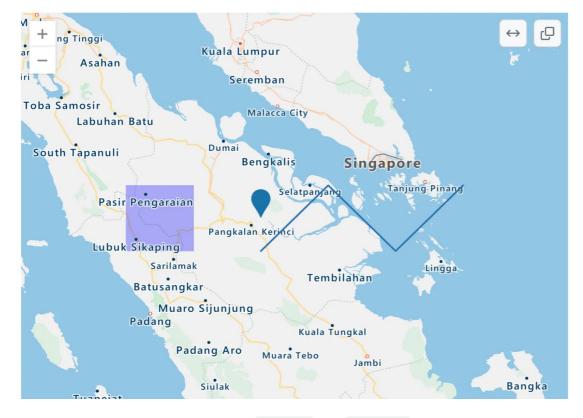
```
```geojson
 "type": "FeatureCollection",
 "features": [
 "type": "Feature",
 "id": 1,
 "properties": {
 "ID": 0
 "geometry": {
 "type": "Polygon",
 "coordinates": [
 [-90,35],
 [-90,30],
 [-85,30],
 [-85,35],
 [-90,35]
]
 }
 }
]
}
```



#### **Using TopoJSON** &

For example, you can create a TopoJSON map by specifying coordinates and shapes.

```
```topojson
  "type": "Topology",
  "transform": {
    "scale": [0.0005000500050005, 0.0001000100010001],
    "translate": [100, 0]
 },
  "objects": {
    "example": {
      "type": "GeometryCollection",
      "geometries": [
          "type": "Point",
          "properties": {"prop0": "value0"},
          "coordinates": [4000, 5000]
        },
        {
          "type": "LineString",
          "properties": {"prop0": "value0", "prop1": 0},
          "arcs": [0]
        },
        {
          "type": "Polygon",
          "properties": {"prop0": "value0",
            "prop1": {"this": "that"}
          },
          "arcs": [[1]]
        }
      ]
    }
  "arcs": [[[4000, 0], [1999, 9999], [2000, -9999], [2000, 9999]],[[0, 0], [0, 9999
}
```



For more information on working with .geojson and .topojson files, see "Working with non-code files."

Creating STL 3D models &

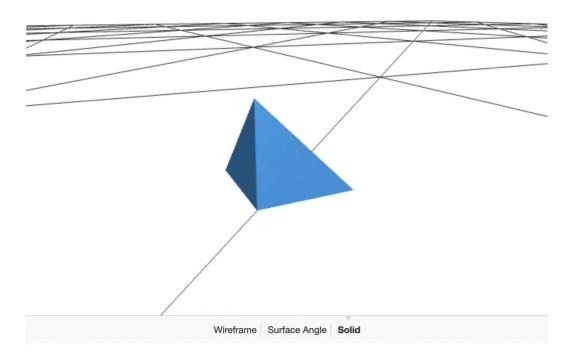
You can use ASCII STL syntax directly in markdown to create interactive 3D models. To display a model, add ASCII STL syntax inside a fenced code block with the stl syntax identifier. For more information, see "Creating and highlighting code blocks."

For example, you can create a simple 3D model:

```
```stl
solid cube corner
 facet normal 0.0 -1.0 0.0
 outer loop
 vertex 0.0 0.0 0.0
 vertex 1.0 0.0 0.0
 vertex 0.0 0.0 1.0
 endloop
 endfacet
 facet normal 0.0 0.0 -1.0
 outer loop
 vertex 0.0 0.0 0.0
 vertex 0.0 1.0 0.0
 vertex 1.0 0.0 0.0
 endloop
 endfacet
 facet normal -1.0 0.0 0.0
 outer loop
 vertex 0.0 0.0 0.0
 vertex 0.0 0.0 1.0
 vertex 0.0 1.0 0.0
 endloop
 endfacet
 facet normal 0.577 0.577 0.577
 outer loop
 vertex 1.0 0.0 0.0
 vertex 0.0 1.0 0.0
 vertex 0.0 0.0 1.0
 endloop
 endfacet
```







For more information on working with .stl files, see "Working with non-code files."

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