

Theme Configuration

Dynamic and integrated theme configuration was introduced in Mermaid version 8.7.0.

Themes can now be customized at the site-wide level, or on individual Mermaid diagrams. For site-wide theme customization, the initialize call is used. For diagram specific customization, the init directive is used.

Available Themes

- 1. **default** This is the default theme for all diagrams.
- 2. neutral This theme is great for black and white documents that will be printed.
- 3. dark This theme goes well with dark-colored elements or dark-mode.
- 4. forest This theme contains shades of green.
- 5. base This is the only theme that can be modified. Use this theme as the base for customizations

Diagram-specific Themes

To customize the theme of an individual diagram, use the init directive.

Example of init directive setting the theme to forest:

Code:

```
Diagram:
  Reminder: the only theme that can be customed is the base theme. The following
  section covers how to use themeVariables for customizations
```

Customizing Themes with themeVariables

To make a custom theme, modify themeVariables via init .

You will need to use the base theme as it is the only modifiable theme.

Parameter	Description	Туре	Properties
themeVariables	Modifiable with the init directive	Object	<pre>primaryColor, primaryTextColor, lineColor (see full list)</pre>

Example of modifying themeVariables using the init directive:

Code:

```
graph TD
```

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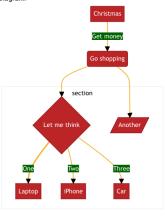
Class Colors

User Journey Colors

Site-wide Theme To customize themes site-wide, call the initialize method on the mermaidAPI. Example of initialize call setting theme to base:



Diagram:



Color and Color Calculation

To ensure diagram readability, the default value of certain variables is calculated or derived from other variables. For example, primaryBorderColor is derived from the primaryColor variable. So if the primaryColor variable is customized, Mermaid will adjust primaryBorderColor automatically. Adjustments can mean a color inversion, a hue change, a darkening/lightening by 10%, etc.

The theming engine will only recognize hex colors and not color names. So, the value #ff0000 will work, but red will not.

Theme Variables

Variable	Default value	Description
darkMode	false	Affects how derived colors are calculated. Set value to true for darkmode.
background	#f4f4f4	Used to calculate color for items that should either be background colored or contrasting to the background
fontFamily	trebuchet ms, verdana, arial	
fontSize	16px	Font size in pixels
primaryColor	#fff4dd	Color to be used as background in nodes, other colors will be derived from this
primaryBorderColor	calculated from primaryColor	Color to be used as border in nodes using primaryColor
primaryBorderColor	calculated from primaryColor	Color to be used as border in nodes using primaryColor
primaryTextColor	calculated from darkMode #ddd/#333	Color to be used as text color in nodes using primaryColor
secondaryColor	calculated from primaryColor	
primaryBorderColor	calculated from primaryColor	Color to be used as border in nodes using primaryColor
secondaryBorderColor	calculated from secondaryColor	Color to be used as border in nodes using secondaryColor
primaryBorderColor	calculated from primaryColor	Color to be used as border in nodes using primaryColor
secondaryTextColor	calculated from secondaryColor	Color to be used as text color in nodes using secondaryColor
tertiaryColor	calculated from primaryColor	
tertiaryBorderColor	calculated from tertiaryColor	Color to be used as border in nodes using tertiaryColor
	calculated from	Color to be used as text color in

tertiaryTextColor	tertiaryColor	nodes using tertiaryColor
noteBkgColor	#fff5ad	Color used as background in notes
noteTextColor	#333	Text color in note rectangles
noteBorderColor	calculated from noteBkgColor	Border color in note rectangles
lineColor	calculated from background	
textColor	calculated from primaryTextColor	Text in diagram over the background for instance text on labels and on signals in sequence diagram or the title in Gantt diagram
mainBkg	calculated from primaryColor	Background in flowchart objects like rects/circles, class diagram classes, sequence diagram etc
errorBkgColor	tertiaryColor	Color for syntax error message
errorTextColor	tertiaryTextColor	Color for syntax error message

Flowchart Variables

Variable	Default value	Description
nodeBorder	primaryBorderColor	Node Border Color
clusterBkg	tertiaryColor	Background in subgraphs
clusterBorder	tertiaryBorderColor	Cluster Border Color
defaultLinkColor	lineColor	Link Color
titleColor	tertiaryTextColor	Title Color
edgeLabelBackground	calculated from secondaryColor	
nodeTextColor	primaryTextColor	Color for text inside Nodes

Sequence Diagram Variables

Variable	Default value	Description
actorBkg	mainBkg	Actor Background Color
actorBorder	primaryBorderColor	Actor Border Color
actorTextColor	primaryTextColor	Actor Text Color
actorLineColor	grey	Actor Line Color
signalColor	textColor	Signal Color
signalTextColor	textColor	Signal Text Color
labelBoxBkgColor	actorBkg	Label Box Background Color
labelBoxBorderColor	actorBorder	Label Box Border Color
labelTextColor	actorTextColor	Label Text Color
loopTextColor	actorTextColor	Loop Text Color
activationBorderColor	calculated from secondaryColor	Activation Border Color
activationBkgColor	secondaryColor	Activation Background Color
sequenceNumberColor	calculated from lineColor	Sequence Number Color

State Colors

Variable	Default value	Description
labelColor	primaryTextColor	
altBackground	tertiaryColor	Used for background in deep composite states

Variable	Default value	Description
classText	textColor	Color of Text in class diagrams

User Journey Colors

Variable	Default value	Description
fillType0	primaryColor	Fill for 1st section in journey diagram
fillType1	secondaryColor	Fill for 2nd section in journey diagram
fillType2	calculated from primaryColor	Fill for 3rd section in journey diagram
fillType3	calculated from secondaryColor	Fill for 4th section in journey diagram
fillType4	calculated from primaryColor	Fill for 5th section in journey diagram
fillType5	calculated from secondaryColor	Fill for 6th section in journey diagram
fillType6	calculated from primaryColor	Fill for 7th section in journey diagram
fillType7	calculated from secondaryColor	Fill for 8th section in journey diagram

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