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# **Sphinxcontrib-mesmaid demo Documentation**

**Martín Gaitán**

**Apr 09, 2020**



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This extension allows you to embed [Mermaid](#) graphs in your documents, including general flowcharts, sequence and gantt diagrams.

It adds a directive to embed mermaid markup. For example:

```
.. mermaid::

    sequenceDiagram
        participant Alice
        participant Bob
        Alice->>John: Hello John, how are you?
        loop Healthcheck
            John->>John: Fight against hypochondria
        end
        Note right of John: Rational thoughts <br/>prevail...
        John-->>Alice: Great!
        John->>Bob: How about you?
        Bob-->>John: Jolly good!
```

By default, the HTML builder will simply render this as a `div` tag with `class="mermaid"`, injecting the external javascript, css and initialization code to make mermaid works.

For other builders (or if `mermaid_output_format` config variable is set differently), the extension will use [mermaid-cli](#) to render as to a PNG or SVG image, and then used in the proper code.

You can also embed external mermaid files, by giving the file name as an argument to the directive and no additional content:

```
.. mermaid:: path/to/mermaid-gantt-code.mmd
```

As for all file references in Sphinx, if the filename is not absolute, it is taken as relative to the source directory.

In addition, you can use mermaid to automatically generate a diagram to show the inheritance of classes for a given module using the directive `autoclasstree`. This receive the module, and optionally the relative namespace. Obviously, the module need to be importable to be represented.

For example:

```
.. autoclasstree:: sphinx.util sphinx
```



# CHAPTER 1

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## Installation

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You can install it using pip

```
pip install sphinxcontrib-mermaid
```

Then add `sphinxcontrib.mermaid` in extensions list of your projec't `conf.py`:

```
extensions = [  
    ...,  
    'sphinxcontrib.mermaid'  
]
```





## CHAPTER 2

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### Directive options

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`:alt::` determines the image's alternate text for HTML output. If not given, the alternate text defaults to the mermaid code.

`:align::` determines the image's position. Valid options are 'left', 'center', 'right'

`:caption::` can be used to give a caption to the diagram.



## CHAPTER 3

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### Config values

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`mermaid_output_format`

The output format for Mermaid when building HTML files. This must be either 'raw' 'png' or 'svg'; the default is 'raw'. `mermaid-cli` is required if it's not raw

`mermaid_version`

The version of mermaid that will be used to parse raw output in HTML files. This should match a version available on <https://unpkg.com/browse/mermaid/>. Currently, the default version is 8.4.8.

`mermaid_cmd`

The command name with which to invoke `mermaid-cli` program. The default is 'mmdc'; you may need to set this to a full path if it's not in the executable search path.

`mermaid_params`

For individual parameters, a list of parameters can be added. Refer to <https://github.com/mermaidjs/mermaid.cli#options>. Examples:

```
mermaid_params = ['--theme', 'forest', '--width', '600', '--backgroundColor',  
↪ 'transparent']
```

This will render the mermaid diagram with theme forest, 600px width and transparent background.

`mermaid_sequence_config`

Allows overriding the sequence diagram configuration. It could be useful to increase the width between actors. **It needs to be a json file** Check options in the [documentation](#)

`mermaid_verbose`

Use the verbose mode when call `mermaid-cli`, and show its output in the building process.

`mermaid_pdfcrop`

If using latex output, it might be useful to crop the pdf just to the needed space. For this, `pdfcrop` can be used. State binary name to use this extra function.



## CHAPTER 4

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### Acknowledge

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Much of the code is based on [sphinx.ext.graphviz](#). Thanks to its authors and other Sphinx contributors for such amazing tool.



## CHAPTER 5

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### Indices and tables

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- `genindex`
- `modindex`
- `search`