

[] | *assets/_images/example-image.png*

Technical Docs

Antora

Version antora-mermaid, 2025-09-30

Table of Contents

Antora Intro	2
Content Sources	2
Component Versions	2
Resource ID	3
Antora UI	5
Supplemental UI	5
Static files	6
github troubleshoot	6
Pages	8
file name	8
header and body	8
asciiDoc document attributes	9
xref	13
include	14
Antora snippets	16
images	16
partials	17
attachment	17
AsciiDoc primer	18
header	18
Text emphasis, punctuation, typography	18
internal xref	21
URL	22
Lists	22
and so on	26
AsciiDoc for STEM	28
Activate	28
using with Antora	28
Examples	29
use mermaid	30
mermaid with antora	30
mermaid to pdf	32

This is practice website to try out antora and asciidoc.

Antora Intro

This is personal notes from docs.antora.org. Just things I find useful.

Content Sources

Symlinks

Thing from [here](#).

*commands for *nix*

```
ln -s target.adoc link.adoc
```

If They are not in the same dir: 1. go to the directory when the link should be. 2. specify the relative form

When the target is not in the same dir

```
ln -s ../../path/to/target.adoc link.adoc
```

Component Versions

These are fmor the [Configure Component Sources](#) section.

versions

You can use refname as version: [refname-projection](#).

Below is the same example from the docs

refname projection

```
name: colorado
version:
  v(?<version>+({0..9}).+({0..9})).x: $<version>
  feature/(*)/*: $1
```

attributes in antora.yml

Set asciidoc attributes in [antora.yml](#):

example from docs.antora.org

```
name: light
title: Data Light
version: '2.3'
```

```
asciidoc:
  attributes:
    table-caption: Data Set
    hide-uri-scheme: ''
    page-level: Advanced
    page-category: Statistics; Cloud Infrastructure
  nav:
    - modules/ROOT/nav.adoc
```

Also it is useful to know one can "soft set" attributes by attaching the @ modifier to the end. So that they can be overridden from a page.

example of soft set

```
asciidoc:
  attributes:
    table-caption: Data Set@
    hide-uri-scheme: '@'
```

Summary:

1. Hard setting a component version attribute using a string value with no trailing @ modifier (e.g., value or ") prevents a page from changing or unsetting the attribute.
2. Soft setting a component version attribute using a string value with a trailing @ modifier (e.g., value@ or '@') allows a page to change or unset the attribute.
3. Hard unsetting a component version attribute using the tilde symbol (~) prevents a page from setting the attribute.
4. Soft unsetting a component version attribute using a false value allows a page to set the attribute.

Resource ID

resource ID coordinates syntax and order

A resource ID contains five coordinates:

1. version
2. component
3. module
4. family
5. file

They are put together in the following manner:

```
version@component:mudule:family$file.ext
```

examples xref with resource id

```
xref:v0.1@technical-docs::index.adoc[back to v0.1 index]  
xref:index.adoc[index of the current version]
```

The above examples will give the link below:

- [back to v0.1 index](#)
- [index of the current version](#)

Note that the Family coordinate omits "s" from the family's name, like `page$`, `image$`, `partial$`, etc. Also, the xref does not require if it is from a pages family. When it is required refer to thie [docs](#).

So, if you want to have assets for all the content sources, one way to do it is `assets` content source. Then add it to the `antora-playbook.yml`.

example from other content source

```
image:assets::favicon-32x32.png[test picture: a green cat alien from formalhaut]
```

The example above .

Antora UI

Supplemental UI

To make a few adjustments to the UI bundle. To see more, visit the [antora docs](#).

The supplemental UI is overlaid onto the files in the loaded UI bundle. (either add or replace)

Under `ui` category, put `supplementa_files` key. The key accepts either (exclusive)

- path of a directory
- a map of virtual files

Supplemental_files with directory

You can specify with a relative or absolute filesystem path.

For relative paths:

- `~`: relative to the user's home directory
- `..`: relative to the location of the playbook file
- `~+` or no prefix: relative to the current working directory

Example of `supplementa_files` with directory

```
ui:  
  supplemental_files: ./supplemental-ui
```

The files in the specified directory will be added to the loaded UI bundle. The directory is assumed to be the root

Supplemental_files with virtual files

If the given value is an array, it is assumed to be a virtual file.

A virtual file entry has two keys: - `path`: relative path of the file in the UI - `contents`: three possibility
- omit the `contents` key: create an empty file - file path: a single line ends with a file extension - the contents of the file will be assigned to the virtual file - contents: - use the given value as the contents

Example for the file path

```
ui:  
  supplemental_files:  
    - path: partials/head-meta.hbs  
      contents: ./supplemental-ui/partials/head-meta.hbs
```

Example for the contents

```
ui:
  supplemental_files:
  - path: partials/head-meta.hbs
    contents: |
      {{#with site.keys.googleSiteVerification}}
      <meta name="google-site-verification" content="{{this}}">
      {{/with}}
```

Static files

Publish files to the root of the published site: static files

The static files are identified using `ui.yml`

Example for favicon

```
ui:
  supplemental_files:
  - path: favicon.ico
    contents: ./supplemental-ui/favicon.ico
  - path: ui.yml
    contents: |
      static_files:
      - favicon.ico
```

github troubleshoot

github pages no css

Github Pages runs all files through `Jekyll`, which will remove all files with `_`. This will remove all the css and js files generated with antora.

To disable this `Jekyll` feature, you have to put `.nojekyll` file to the root of the published site.

For more detailed explanation, checkout [this page](#).

One way suggested is to use the supplemental UI:

antora-playbook.yml that adds .nojekyll file

```
ui:
  bundle:
    url: <url-of-bundle-goes-here>
  supplemental_files:
  - path: ui.yml
    contents: |
      static_files:
```



```
- .nojekyll  
- path: .nojekyll
```

For a brief explanation:

1. the first item under `supplemental_files` adds `ui.yml` file:

ui.yml added by supplemental_files

```
static_files:  
- .nojekyll
```

Note that the `static_files` means that the list of files will be placed in the root of the site. So, it will place the `.nojekyll` file on the root of the site

2. the second item under `supplemental_files` adds `.nojekyll` file, which is empty

Pages

Here are all about [pages section](#).

file name

The following files in the pages family directory will be ignore it

- a file name begins with a dot (.)
- a file name ends without a file extension

The following files will be cataloged but will not published:

- a file name starts with an underscore (_):

Recommended (some are required) file name style:

- ends with `.adoc` file extension
- only URL-compliant characters
- all lowercase
- no space (`` ``)

header and body

```
= Page Title
Optional Author <option@auth.com>; Directly Under Title <optional@email.com>; Output
to MetaTag
:description: A description of the page stored in an HTML meta tag. \
Break description into multiline if too long with `\'`.
:keywords: comma-separated values, stored, in an HTML, meta, tag
// comment
// AsciiDoc Attributes
:sectanchors:
:url-repo: https://my-git-repo.com
:page-tags: name of a tag, name of a tag

// a blank line ends the page header
page body
```

- sectanchors, url-repo: optional asciiDoc attributes

page title

About page title:

- can contain text formatting

- page title **must not** contain resource references (xref, image, etc)

asciidoc document attributes

To circulate information in and out of pages, such as settings, styles, metadata.

Two kinds of attributes:

- built-in attributes
 - defined by asciidoc
 - intrinsic attributes: defined by Antora
- custom attributes
 - defined by author

Page attributes are prefixed with `page-`. They can be accessed using `page.attributes.<name>` in a UI templates.

Types of page attributes:

- custom
- predefined
- intrinsic

Built-in attribute

Here are examples of built-in attributes

Built-in attribute

```
= Page Title
:toc: // set the table of content
:!toc: // unset the table of content
:table-caption:
:sectanchors: // adds an anchor to each section title
:sectanchors!: // To unset
:!sectanchors: // To unset
:xrefstyle: short // short, full, basic
```

Some AsciiDoc attributes are **not** applicable in the Antora environment:

- data-uri
- allow-uri-read
- docinfo
- linkcss
- noheader
- nofooter

- webfonts
- outfilesuffix
- imagesdir: set by Antora, cannot be overridden

Custom attribute

To store frequently used text and URLs.

Attribute name:

- only contains word characters (A-Z, a-z, 0-9, or _) and hyphens
 - no dot (.) or a space
- begins with a word character
- recommended
 - to use only lowercase letters
 - avoid starting the name with a number

Attribute values can:

- be any inline content
- contain line breaks, but only if an explicit line continuation (+) is used.

Custom attribute

```
= Page Title
:url-repo: https://gitlab.com/antora/demo/docs-site
```

Use the set value like {url-repo}

Precedence rules

The Attributes which are hard set or hard unset in the playbook or component escriptor (antora.yml) take precedence over attributes defined in a page.

Page attributes

The name of the attribute must begin with **page-**. If you need to access the attribute from the UI template, you need the prefix.

Page attribute examples

```
= Page Title
:page-category: DevOps
:page-edition: Enterprise
:page-custom-attribute: custom value
:product-name: Name of My Product
:page-product-name: {product-name}
```

```
// attribute reference is resolved immediately
```

```
Main content.
```

Custom page attributes should be defined in the page header and start the name with **page-**.

Page attributes can also be defined site-wide in the Antora playbook or per component version in the component version descriptor.

predefined page attribute

Predefined Page attribute examples

```
= Page Title
// configure alternate resource IDs
// value: comma-separated list of resource IDs
:page-aliases: old-page-name.adoc, v0.1@technical-docs::test-page1.adoc, assets::test-
page2.adoc
// specify which UI template to apply
:page-layout: home
```

Access page attributes from the UI template

Here is an example for **toclevels**

antora-playbook.yml or antora.yml

```
asciidoc:
  attributes:
    page-toclevels: 3@
    // trailing @: to be able to override in a page header
    page-pagination: ''
    // hardset (cannot be turned off by a page)
```

page header

```
= Page Title
:page-toclevels: 2
```

The page attributes can be referred like **tocleves** (without prefix **page-**):

use tocleves

```
{{page.attributes.toclevels}}
```

use pagination

```
{{#unless (eq page.attributes.pagination undefined)}}
```

```
<nav class="pagination">
...
</nav>
{{/unless}}
```

access non-page attribute from the UI model

```
{{#with (resolvePage page.relativeSrcPath model=false)}}
{{./asciidoc.attributes.policy-number}}
{{/with}}
```

intrinsic attributes

Automatically assigned runtime environment information by Antora. Read-only and should not be reassigned. Not visible to the component descriptor (antora.yml)

intrinsic environment attributes:

intrinsic environment attributes:

- env=site
- env-site
- site-gen=antora
- site-gen-antora

Example usage

```
ifndef::site-gen-antora[]
include::local-preview-settings.adoc[]
endif::[]
```

site and config attributes

site and config attributes

- attribute-missing=warn
- !data-uri
- icons=font
- sectanchors
- source-highlighter=highlight.js
- site-title
- site-url

highlight.js is the only syntax highlighter that Antora currently supports.

You can check the list of intrinsic page attributes [here](#).

Access intrinsic page attributes

To access the values:

- In AsciiDoc: use the attribute reference syntax ([technical-docs](#))
- In the UI model: use a template variable ([page.attributes.component-name](#))

Example in a page

```
This page belongs to the {page-module} module in the {page-component-title} {page-component-version} component version.
```

Some useful attributes

Here are some examples of attributes

Set ref text

```
= My Page
:reftext: This text will be used in xref
:navtitle: This will be used for nav
```

If they are not set, the default is page title.

Create a redirect with page-aliases

```
= Title of Target Page
:page-aliases: source-page-filename.adoc, version@component:module:source-page-filename.adoc
```

Page aliases split across multiple lines

```
= Title of Target Page
:page-aliases: source-page-filename.adoc, \
version@component:module:source-page-filename.adoc
```

One can redirect a deleted page to a custom 404 page.

xref

cross reference

structure of an xref macro

```
xref:version@component:module:file.adoc#elementID[optional link text]
```

If the version is not specified (and target page and current page belong to different docs components), Antora uses the latest version.

When the fragment (elementID) was specified, the link text is **not** automatically populated. You need to specify the link text for a fragment.

Xrefs in a navigation has one additional feature. Navigation files use the **navtitle** value to populate missing link text. If the **navtitle** is not set, then **reftext** value is used. By default Antora assigns a page's title to the **reftext** attribute at runtime.

example same component different version different module

```
xref:5.2@get-started:tour.adoc[excursions]
```

The same component (colorado) was omitted, The module **get-started** was specified.

include

Example of include

```
include::version@component:module:file-coordinate-of-target-page.adoc[optional  
attribute]
```

The barckets of the include can contain optional attributes, such as lines, tag, or tags.

To include content by line ranges, refer to [this page](#).

Include content by line ranges

```
include::antora-docs.adoc[lines=10..17]  
include::antora-docs.adoc[lines=10..17;22..26;120..-3]
```

You may find that the include directive resolves the target page when the `./` token isn't used in the file coordinate. However, we strongly recommend using the `./` token when referencing a target page that is stored in the same subdirectory as the current page.

Include placement

A paragraph in the page.

```
include::resource-id-of-target-page.adoc[tag=value]
```

A line of content.

```
include::resource-id-of-target-page.adoc[]
```

Another line of content.

The second include will be a block with the line above and below.

page-partial attribute

Abot the order of process. See [docs](#)

In short, the `page-partial` attribute in the included page instructs Antora to retain the AsciiDoc source until all pages have been converted. It is (soft) set by default, so it will just work.

It may, however, increase the peak heap usage. So, one can revert it in playbook file so that the `page-partial` is no longer set globally:

playbook.yml

```
asciidoc:
  attributes:
    page-partial: false
```

You **must** set the `page-partial` attribute on any page to be included

Shared page

```
= Shared Page
:page-partial:

Page contents.
```

Other page

```
include::shared-page.adoc[]
```

Antora snippets

These are just taken from the official docs. docs.antora.org.

images

[docs](#)

Let's say you have an image file in `assets` component.

image location

```
assets
|-- README.md
|-- antora.yml
'-- modules
    '-- ROOT
        '-- images
            '-- example-image.png
```

Image examples

below is a block image example.

```
image::assets::example-image.png[]
```

You can also put inline `image::assets::example-image.png[]`.

The image can link using `xref`: `image:assets::example-image.png[The image alt text,xref=antora-pages.adoc]`.

The image can link using `xref`: `image:assets::example-image.png[The image alt text,30,40,xref=antora-pages.adoc]`.

```
image::assets::example-image.png[The image alt text,50,50,xref=antora-pages.adoc]
```

The image with link:



The image macro has positional attributes (optional). Assign them before setting named attributes such as `xref`. The example above is `alt`, `width`, and `height`.

Current page deep link

```
image::panorama.png[xref=#elevation]
```

The range can be traversed by Cottonwood Pass, Independence Pass, or Hagerman Pass.

```
[#elevation]
== Pass elevations
```

The passes usually open in late spring.

One can also link to self:
image::panorama.png[link=self]

partials

Reusable

A partial is not required to be an AsciiDoc file.

Example partials

```
[plantuml,my-schema,svg]
....
include::partial$diagrams/my-schema.puml[]
....
```

attachment

Unlike pages, attachments don't have default reference text, so it's always good to specify link text to ensure a good reader experience.

Example attachment

Download xref:attachment\$practice-project.zip[the sample project] to try it out!

AsciiDoc primer

AsciiDoc Primer note from [antora docs](#).

header

Header examples

```
= Page Title
:description: A description of this page.
:docrole: home
```

Text emphasis, punctuation, typography

bold example

```
Make a *word* or *a phrase of text* bold in a single set of asterisks.
Bounded characters with a set of double asterisks. Like cha**act**ers, not
cha*act*ers.
```

Make a **word** or a **phrase of text** bold in a single set of asterisks.

Bounded characters with a set of double asterisks. Like cha**acters**, not cha*act*ers.

The style of bold text depends on the font and the CSS styles for `` HTML tag.

example mixed formatting

```
`*_monospace bold italic phrase_*` & ``**__char__**``acter``**__s__**``
```

italic example

```
An italic _word_, and an italic _phrase of text_.

Italic c__hara__cter__s__ within a word.
```

The style of bold text depends on the font and the CSS styles for `` HTML tag.

monospace example

```
A monospace `word`, and a monospace `phrase of text`.

Monospace c``hara``cter``s`` within a word.
```

The style of bold text depends on the font and the CSS styles for `<code>` HTML tag.

highlight example

```
Let's #highlight this phrase# and the i and s in th##is##.
```

The style of bold text depends on the font and the CSS styles for `<mark>` HTML tag.

quotation raw text

```
.quotation mark
* 'normal single quote'
* "normal double quote"
* ``single quote and backtick.``
* ""double quote and backtick.""
```

quotation mark

- 'normal single quote'
- "normal double quote"
- ‘single quote and backtick.’
- “double quote and backtick.”

apostrophes raw

```
* The ``80s.
* The students`` books.
* I can't find Joey's house.
* I can't find Joey\'s house.
```

apostrophes

- The '80s.
- The students' books.
- I can't find Joey's house.
- I can't find Joey's house.

special characters

Some special characters are replaced with the appropriate character or unicode entity. The three special characters, `<`, `>`, and `&`, are always replaced first.

See the full table [here](#) Also [this](#)

characters

```
&sect;
&#167;
&amp;
(C)
```

```
(R)
(TM)
...
<=
<-
=>
->
```

- §
- &
- ©
- ®
- ™
- ...
- ⇐
- ←
- ⇒
- →

Note that some special characters won't work for asciidoctor-pdf. It will work, however, if you use the numeric reference. [discuss](#)

For example, `§` will not work, but `§` will work fine with asciidoctor-pdf.

escape replacement

If you don't want to replace into special character, escape with `\.`

[ref](#)

For example, `.\...` will show normal four periods `....` instead of 3+1 `....`.

escape

```
`.\\...` `.\...` `....`
`\&sect;` `\\&#167;`
```

`.\... § §`

subscript and superscript

subscript superscript examples

The chemical formula for water is H₂O.
What is the answer to E=mc²?

The chemical formula for water is H₂O. What is the answer to E=mc²?

internal xref

Inline reference example here.

create internal xref

```
=== special characters

[#in-page-xref-example]
.apostrophes raw
[,adoc]
----
* The ``80s.
* The students`` books.
* I can't find Joey's house.
* I can't find Joey\'s house.
----

Inline referenc example [#inline-ref]#here#.
```

create internal xref

```
.How to in-page cross reference:
* <<special characters>>
* <<special-characters>>
* <<special characters,go to the section>>

.Link to above block
<<in-page-xref-example>>
<<in-page-xref-example>>

.Inline reference
* <<inline-ref>>
* <<inline-ref,go to inline example>>
```

Below is the same from above block, but rendered. Note the deferences.

How to in-page cross reference:

- [special characters](#)
- [\[asciidoc-primer:::special-characters\]](#)
- [this uses section's title](#)
- [this uses implicit ID](#)

Link to above block

- [apostrophes raw](#)

- [go to the example block](#)

Inline reference

- [\[asciidoc-primer:::inline-ref\]](#)
- [go to inline example](#)

URL

link to an external URL

Links that start with [https](#), [ftp](#), [mailto](#), etc. will automatically turned into hyperlinks.

To escape a URL, so that it is not active, prepend it with a backslash \.

URL examples

Visit the <https://chat.antora.org>[Antora chat room].

This URL is displayed, `\https://gitlab.com`, but isn't clickable.

Note that a URL with characters like `_` or `^` might not display correctly. See this [troubleshooting](#)

troubleshoot url

```
= Page Title
:url-peak: https://www.google.com/maps/place/Antora+Peak/@38.3249976,-
106.2355882,14z/data=!3m1!4b1!4m5!3m4!1s0x871572433f469bd7:0xd2bdf15e615cd269!8m2!3d38
.3249994!4d-106.2180786!5m1!1e4

{url-peak}[This URL] was complicated, but a page attribute came to our rescue!

pass:macros[URL goes between these brackets]
Anyone want to climb this 13er with me?
(pass:macros[https://www.14ers.com/13ers/peak.php?peakkey=4740])
```

Lists

Ordered list example

```
. Step 1
. Step 2
.. Details
... Mini-details
.... Micro-details
..... We're really down in the weeds now.
.. More details
. Step 3
```



```
[lowergreek]
```

- . alpha
- . beta
- . gamma

```
[start=4]
```

- . Picking up where we left off.
- . Add one more ingredient.
- . Mix and serve!

1. Step 1

2. Step 2

a. Details

i. Mini-details

A. Micro-details

I. We're really down in the weeds now.

b. More details

3. Step 3

α. alpha

β. beta

γ. gamma

4. Picking up where we left off.

5. Add one more ingredient.

6. Mix and serve!

Unordered list example

```
* Item A
* Item B
** Item B1
*** Details
**** More details
***** Details about the details
** Item B2
* Item C
```

• Item A

• Item B

◦ Item B1

▪ Details

▪ More details

- Details about the details
 - Item B2
- Item C

Complex ordered and unordered lists

```
* A list item can contain two or more paragraphs or blocks of content.
+
[source,yaml]
----
  artifacts:
    expire_in: 1 week
----
+
====
An example block
====

** A literal paragraph doesn't require a list continuation.

$ antora antora-playbook.yml

* You can also mix list item types in the same list.
** Unordered list item
... Ordered list item
.... Another ordered list item
+
term:: A description list term and content.
```

- A list item can contain two or more paragraphs or blocks of content.

```
artifacts:
  expire_in: 1 week
```

An example block

- A literal paragraph doesn't require a list continuation.

```
$ antora antora-playbook.yml
```

- You can also mix list item types in the same list.
 - Unordered list item
 - i. Ordered list item
 - A. Another ordered list item

term

A description list term and content.

Alternatively, when a list item contains multiple blocks, you can wrap them in a delimited open block (--). Then you only need a single list continuation line to attach the open block to the list item.

example open block

```
* A list item that includes several blocks wrapped in an open block.
+
--
[source,yaml]
----
  artifacts:
    expire_in: 1 week
----

====
An example block
====

Another paragraph
--
```

- A list item that includes several blocks wrapped in an open block.

```
artifacts:
  expire_in: 1 week
```

An example block

Another paragraph

Description list

```
Keyboard::
Used to enter text or control items on the screen.
Mouse:: Used to point to and select items on your computer screen.

term 1::
This description needs two paragraphs.
To attach them both to term 1, use a list continuation (+) on the line separating the
paragraphs.
+
This is the second paragraph for term 1.
```

term 2:: This description includes an admonition block.
Like additional paragraphs, blocks also need to be connected with a +.
+
NOTE: An admonition block that is part of term 2's description.

term 3::
* unordered list item
.. ordered list item
... another ordered list item

Keyboard

Used to enter text or control items on the screen.

Mouse

Used to point to and select items on your computer screen.

term 1

This description needs two paragraphs. To attach them both to term 1, use a list continuation (+) on the line separating the paragraphs.

This is the second paragraph for term 1.

term 2

This description includes an admonition block. Like additional paragraphs, blocks also need to be connected with a +.



An admonition block that is part of term 2's description.

term 3

- unordered list item
 - a. ordered list item
 - i. another ordered list item

and so on

More things covered by antora docs' asciidoc primer:

- Lists: Description Lists, Checklists
- Embed a Video
- UI Macros: Things like button, Keybinding and Menu syntax
- Source Blocks
- Admonitions
- Examples
- Sidebars

- Comments

For more asciidoc stuff Read further form the [antora doc](#). Or visit the [asciidoc](#).

AsciiDoc for STEM

This page is just a note for [asciidoc stem documentation](#).

Activate

To activate STEM, you should put the `stem` attribute in the header.

To activate STEM support

```
= My Diabolical Mathematical Opus
Jamie Moriarty
// By default, assumes AsciiMath equations if not specified
:stem:
```

To use LaTeX notation by default

```
= My Diabolical Mathematical Opus
Jamie Moriarty
:stem: latexmath
```

These are just to set the default, so by setting explicitly one can use both `asciimath` or `latexmath`.

using with Antora

By default, the STEM will **not** work with the default Antora setup and default Antora UI.

Mathjax

One way to use it is, using `mathjax`.

For Detailed instruction:

- [the npm package](#)
- [For Antora](#)

Here is a short instruction:

1. install Mathjax
 - global installation: `npm i -g @djjencks/asciidoctor-mathjax`
 - local installation: add `@djjencks/asciidoctor-mathjax` to your dev dependencies
2. add the extension to the playbook

```
asciidoc:
  extensions:
    - '@djjencks/asciidoctor-mathjax'
```

Examples

Inline stem

```
stem:[sqrt(4) = 2]
```

Water (stem:[H_2O]) is a critical component.

A matrix can be written as stem:[$\begin{bmatrix} a & b \\ c & d \end{bmatrix}$](n,k)).

$\sqrt{4} = 2$

Water (H₂O) is a critical component.

A matrix can be written as $\begin{bmatrix} a & b \\ c & d \end{bmatrix}(n,k)$.

use mermaid

TODO

- setup
- use mermaid
- antora pdf

mermaid with antora

It is from [antora-mermaid extension](#).

setup

npm install

```
npm i -D @sntke/antora-mermaid-extension
```

Then update the `antora-playbook.yml`:

antora-playbook.yml

```
antora:
  extensions:
    - require: '@sntke/antora-mermaid-extension' ①
      mermaid_library_url:
        https://cdn.jsdelivr.net/npm/mermaid@10/dist/mermaid.esm.min.mjs ②
      script_stem: header-scripts ③
      mermaid_initialize_options: ④
        start_on_load: true
```

① npm package name: @sntke/antora-mermaid-extension (required)

② URL of Mermaid.js library (optional)

③ Stem that exists in the handlebar templates of UI bundle where HTML script element for mermaid.js is placed. (optional)

④ The argument to mermaid.initialize(). (optional) Make sure to convert the Mermaid config keys to snake case, e.g., startOnLoad → start_on_load or themeVariables → theme_variables. Refer to the Antora docs for details.

If you don't need any options, just simply put as following:

antora-playbook.yml

```
antora:
  extensions:
    - '@sntke/antora-mermaid-extension'
```


Now you can put mermaid diagram and it will show in the browser.

use mermaid

This extension visualized Listing Blocks (....) and Literal Blocks (----) of `mermaid` on HTML files.

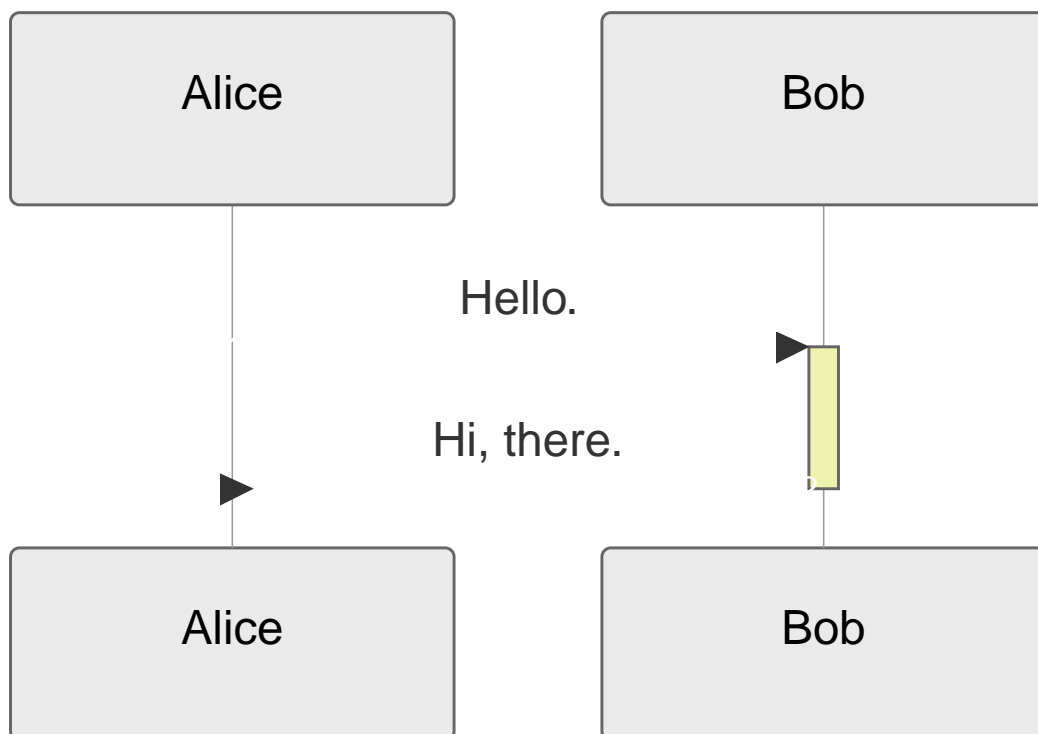
example mermaid

```
[mermaid]
....
sequenceDiagram
autonumber

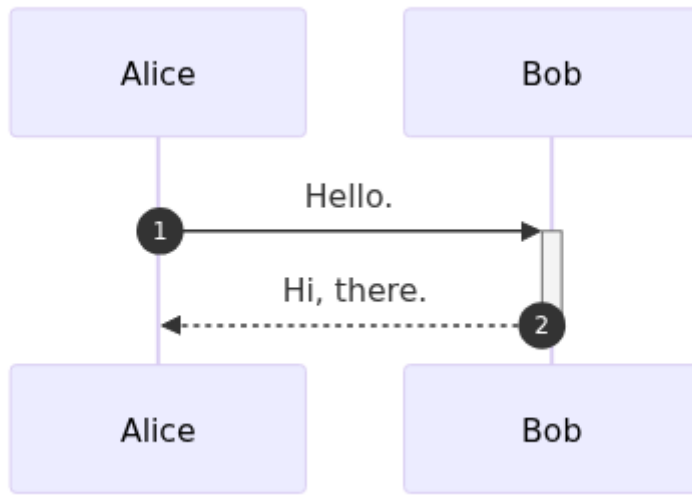
participant a as Alice
participant b as Bob

a ->>+ b : Hello.
b -->>- a : Hi, there.
....
```

Below is with the `format=svg`:



Below is with the `format=png`:



mermaid to pdf

If you also want to create a pdf with antora, the mermaid diagram will not render out of the box. You need to set up couple of things.

- `asciidoctor-diagram`
- mermaid-cli: `mmdc` this will render diagram
- update the command for assembler
- `mmdc` uses puppeteer with chromium, so set up for it...
 - either download dependencies
 - or download chromium
- also chromium sandbox (for docker)
 - either no-sandbox (dangerous)
 - or set it up properly

setup

Install asciidoctor-diagram

```
gem install asciidoctor-diagram
```

You can as well use `asciidoctor-kroki`. The difference is that kroki uses kroki server, while `asciidoctor-diagram` renders locally. So if you want to use `asciidoctor-diagram` with mermaid, you need to install `mermaid-cli`.

Here I install mermaid-cli globally.

Install mermaid-cli

```
npm install -g @mermaid-js/mermaid-cli
```

This will enable the command `mmdc`. You can try out with `mmdc -i input.mmd -o output.png` to see it works properly. Note that `mmdc` needs chromium to render (at least for now), so we will install chromium later.

Now you have to tell the antora-assembler, who is making the pdf file, to use the asciidoctor-diagram. So, update the `antora-assembler.yml` file.

Update `antora-assembler.yml`

```
build:
  command: asciidoctor-pdf -r asciidoctor-diagram
```

If you are using Bundler to manage gems (if Gemfile.lock), and you want to customize the command, make sure you prefix the command with bundle exec.

Update `antora-assembler.yml`

```
build:
  command: bundle exec asciidoctor-pdf -r asciidoctor-diagram
```

Depending on your setting, this may be enough.

But if you are using docker, the mermaid-cli `mmdc` might not work, due to lacking libs.

Here is a possible fix (for debian), (it is from gpt, so might be not 100% correct)

Install dependencies for `mmdc` and `chromium`

```
sudo apt-get update
sudo apt-get install -y \
  libgl2.0-0 \
  libnss3 \
  libx11-6 \
  libatk1.0-0 \
  libatk-bridge2.0-0 \
  libcups2 \
  libdrm2 \
  libdbus-1-3 \
  libxcomposite1 \
  libxdamage1 \
  libxfixes3 \
  libxrandr2 \
  libgbm1 \
  libpango-1.0-0 \
  libcairo2 \
  libasound2 \
  libxkbcommon0 \
  libxkbcommon-x11-0
```

Alternatively, just install chromium. This may be better for people with apple silicon. Cause we can

specify this chromium for the puppeteer, which will smooth out some problems.

Install chromium

```
sudo apt-get update
sudo apt-get install -y chromium
```

Also, the mermaid-cli might still say that **No usable sandbox!**.

The easy way to fix it is adding no-sandbox to the mmdc. [how-to-no-sandbox](#).

Only use this option, if you make your own charts.

First, make `puppeteerConfig.json` file:

example puppeteerConfig.json

```
{
  "executablePath": "/usr/bin/chromium", ①
  "args": ["--no-sandbox", "--disable-dev-shm-usage"] ②
}
```

① you can specify the chromium to use.

② In containers, /dev/shm is tiny, disable-dev-shm-usage avoids crashes

Then specify this config in your `antora-assembler.yml`. Note that puppeteer-config is prefixed with `mermaid-:` [ref](#)

example antora-assembler.yml

```
build:
  command: asciidoctor-pdf -r asciidoctor-diagram -a mermaid-puppeteer-config=<path-to>/puppeteerConfig.json
```