

Foliant

User's Manual

Welcome to Foliant!

Foliant is a all-in-one documentation authoring tool. It lets you produce standalone documents in pdf and docx, as well as websites, from single Markdown source.

Foliant is a higher order tool, which means it uses other programs to do its job. For pdf and docx, it uses Pandoc, for websites it uses MkDocs.

Foliant preprocessors let you include parts of documents in other documents, show and hide content with flags, render diagrams from text, and much more.

Logo made by Hand Drawn Goods from www.flaticon.com.

Who Is It for?

You'll love Foliant if you:

- need to ship documentation as pdf, docx, and website forms
- want to use Markdown with consistent extension system instead of custome syntax for every new bit of functionality
- like reStructuredText's extensibility and Asciidoc's flexibility, but actually would rather use Markdown
- want a tool that you can actually write custom extensions for without dealing with something as overengineered as Sphinx
- have documentation spread across many repos and want to reuse parts between documents

Changelog

1.0.11

- Allow to specify custom options for EscapeCode preprocessor as the escape_code.options config parameter value.
- Pass the quiet flag to BaseParser() as an optional argument for using in config extensions.

1.0.10

 Add escape_code config option. To use it, escapecode and unescapecode preprocessors must be installed.

1.0.9

- Process attribute values of pseudo-XML tags as YAML.
- Allow single quotes for enclosing attribute values of pseudo-XML tags.
- Add !project_path and !rel_path YAML tags.

1.0.8

- Restore quiet mode.
- Add the output() method for using in preprocessors.

1.0.7

- Remove spinner made with Halo.
- Abolish quiet mode because it is useless if extensions are allowed to write anything to STDOUT.
- Show full tracebacks in debug mode; write full tracebacks into logs.

1.0.6

- CLI: If no args are provided, print help.
- Fix tags searching pattern in unescape preprocessor.

1.0.5

- Allow to override default config file name in CLI.
- Allow multiline tags. Process true and false attribute values as boolean, not as integer.
- Add tests.
- Improve code style.

1.0.4

- Breaking change. Add logging to all stages of building a project. Config parser extensions, CLI extensions, backends, and preprocessors can now access self.logger and create child loggers with self.logger = self.logger .getChild('newbackend').
- Add pre backend with pre target that applies the preprocessors from the config and returns a Foliant project that doesn't require any preprocessing.
- make now returns its result, which makes is easier to call it from extensions.

1.0.3

 Fix critical issue when config parsing would fail if any config value contained nonlatin characters.

1.0.2

Use README.md as package description.

1.0.1

Fix critical bug with CLI module caused by missing version definition in the root
 __init__.py file.

1.0.0

Complete rewrite.

Installation

Installing Foliant to your system can be split into three stages: installing Python with your system's package manager, installing Foliant with pip, and optionally installing Pandoc and TeXLive bundle. Below you'll find the instructions for three popular platforms: macOS, Windows, and Ubuntu.

Alternatively, you can avoid installing Foliant and its dependencies on your system by using Docker and Docker Compose.

macOS

- 1. Install Python 3 with Homebrew:
 - \$ brew install python3
- 2. Install Foliant with pip:
 - \$ python3 -m pip install foliant foliantcontrib.init
- 3. If you plan to bake pdf or docx, install Pandoc and MacTeX with Homebrew:
 - \$ brew install pandoc mactex librsvg

Windows

- 0. Install Scoop package manager in PowerShell:
 - \$ iex (new-object net.webclient).downloadstring('https://
 get.scoop.sh')
- 1. Install Python 3 with Scoop:
 - \$ scoop install python

- 2. Install Foliant with pip:
 - \$ python -m pip install foliant foliantcontrib.init
- 3. If you plan to bake pdf or docx, install Pandoc and MikTeX with Scoop:
 - \$ scoop install pandoc latex

Ubuntu

1. Install Python 3 with apt. On 14.04 and 16.04:

```
$ apt update && apt install -y python3 python3-pip
On 14.04 and 16.04:
```

- 1 \$ add-apt-repository ppa:jonathonf/python-3.6
- 2 \$ apt update && apt install -y python3 python3-pip
- 2. Install Foliant with pip:
 - \$ python3.6 -m pip install foliant foliantcontrib.init
- 3. If you plan to bake pdf or docx, install Pandoc and TeXLive with apt and wget:
- 1 \$ apt update && apt install -y wget texlive-full librsvg2
 -bin
- wget https://github.com/jgm/pandoc/releases/download
 /2.0.5/pandoc-2.0.5-1-amd64.deb && dpkg -i pandoc
 -2.0.5-1-amd64.deb

Docker

\$ docker pull foliant/foliant

Quickstart

In this tutorial, you'll learn how to use Foliant to build websites and pdf documents from a single Markdown source. You'll also learn how to use Foliant preprocessors.

Create New Project

All Foliant projects must adhere to a certain structure. Luckily, you don't have to memorize it thanks to Init extension.

You should have installed it during Foliant installation and it's included in Foliant's default Docker image.

To use it, run foliant init command:

To do the same with Docker, run:

Here's what this command created:

```
1 $ cd hello-foliant
2 $ tree
3 . —
4 docker-compose.yml —
```

foliant.yml is your project's config file.

src directory is where the content of the project lives. Currently, there's just one file index.md.

requirements.txt lists the Python packages required for the project: Foliant backends and preprocessors, MkDocs themes, and what not. The the Docker image for the project is built, these requirements are installed in it.

Dockerfile and docker-compose.yml are necessary to build the project in a Docker container.

Build Site

In the project directory, run:

```
1 $ foliant make site ✓
2 Parsing config ✓
3 Applying preprocessor mkdocs ✓
4 Making site with MkDocs———
5
6 Result: Hello_Foliant-2018-01-23.mkdocs
```

Or, with Docker Compose:

```
Result: Hello_Foliant-2018-01-23.mkdocs
```

That's it! Your static, MkDocs-powered website is ready. To view it, use any web server, for example, Python's built-in one:

```
1 $ cd Hello_Foliant-2018-01-23.mkdocs
2 $ python -m http.server
3 Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

Open localhost:8000 in your web browser. You should see something like this:

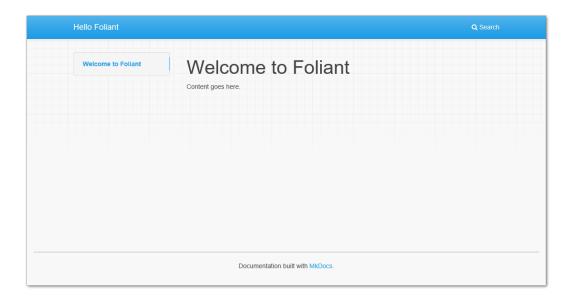


Figure 1. Basic Foliant project built with MkDocs

Build Pdf

Note

To build pdfs with Pandoc, make sure you have it and TeXLive installed (see Installation).

In the project directory, run:

```
1 $ foliant make pdf ✓
2 Parsing config ✓
3 Applying preprocessor flatten ✓
4 Making pdf with Pandoc———
5
6 Result: Hello_Foliant-2018-01-23.pdf
```

To build pdf in Docker container, first uncomment foliant/foliant:pandoc in your project's Dockerfile:

```
1 - FROM foliant/foliant
2 + # FROM foliant/foliant
3 # If you plan to bake PDFs, uncomment this line and comment the line above:
4 - # FROM foliant/foliant:pandoc
5 + FROM foliant/foliant:pandoc
6
7 COPY requirements.txt .
8
9 RUN pip3 install -r requirements.txt
```

Note

Run docker-compose build to rebuild the image from the new base image if you have previously run docker-compose run with the old one. Also, run it whenever you need to update the versions of the required packages from requirements.txt.

Then, run this command in the project directory:

```
1 $ docker-compose run --rm hello-foliant make pdf ✓
2 Parsing config ✓
3 Applying preprocessor flatten ✓
4 Making pdf with Pandoc—
5
6 Result: Hello_Foliant-2018-01-23.pdf
```

Your standalone pdf documentation is ready! It should look something like this:

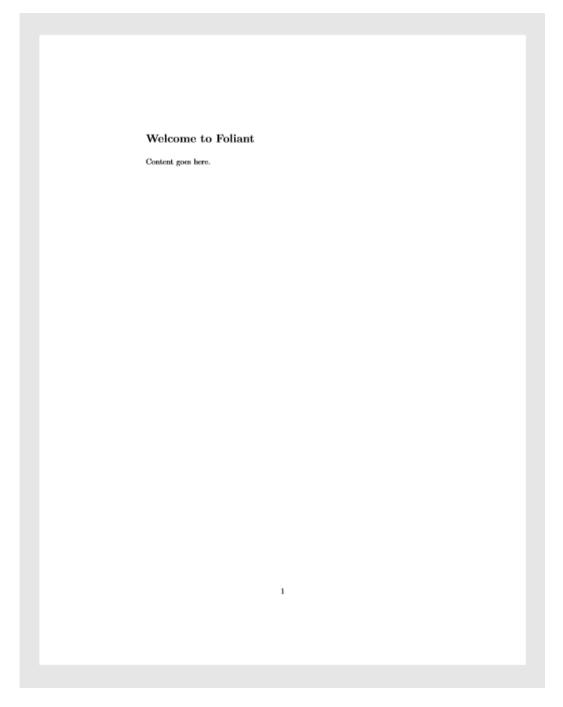


Figure 2. Basic Foliant project built with Pandoc

Edit Content

Your project's content lives in *.md files in src folder. You can split it between multiple files and subfolders.

Foliant encourages pure Markdown syntax as described by John Gruber. Pandoc, Mk-Docs, and other backend-specific additions are allowed, but we strongly recommend to put them in <if></if> blocks.

Create a file hello.md in src with the following content:

```
# Hello Again

This is regular text generated from regular Markdown.

Foliant 'doesnt force any *special* Markdown flavor.
```

Open foliant.yml and add hello.md to chapters:

```
title: Hello Foliant

chapters:
    - index.md
+ - hello.md
```

Rebuild the project to see the new page:

```
1 $ docker-compose run --rm hello-foliant make site && docker-compose run --rm hello-foliant make pdf ✓
2 Parsing config ✓
3 Applying preprocessor mkdocs ✓
4 Making site with MkDocs
5
6 Result: Hello_Foliant-2018-02-08.mkdocs ✓
7 Parsing config ✓
8 Applying preprocessor flatten ✓
9 Making pdf with Pandoc—
```

Result: Hello_Foliant-2018-02-08.pdf

And see the new page appear on the site and in the pdf document:

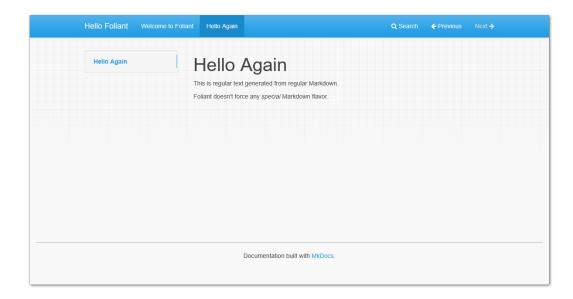


Figure 3. New page on the site

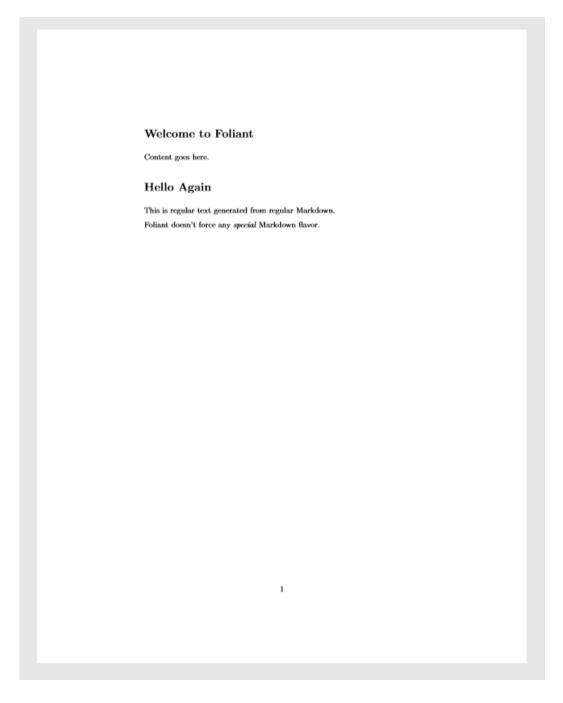


Figure 4. New page in the pdf document

Use Preprocessors

Preprocessors is what makes Foliant special and extremely useful. Preprocessors are additional packages that, well, preprocess the source code of your project. You can do all kinds of stuff with preprocessors:

- include remote Markdown files or their parts in the source files
- render diagrams from textual description on build
- restructure the project source or compile it into a single file for a particular backend

In fact, you have already used two preprocessors! Check the output of the foliant make commands and note the lines Applying preprocessor mkdocs and Applying preprocessor flatten. The first one informs you that the project source has been preprocessed with mkdocs preprocessor in order to make it compatible with MkDocs' requirements, and the second one tells you that flatten preprocessor was used to squash the project source into one a single file (because Pandoc only works with single files).

These preprocessors where called by MkDocs and Pandoc backends respectively. You didn't have to install or activate them explicitly.

Now, let's try to use a different kind of preprocessors, the ones that register new tags: Blockdiag.

Embed Diagrams with Blockdiag

Blockdiag is a Python app for generating diagrams. Blockdiag preprocessor extracts diagram descriptions from the project source and replaces them with the generated images.

In hello.md, add the following lines:

```
Foliant 'doesnt force any *special* Markdown flavor.

+ <seqdiag caption="This diagram is generated on the fly">
+ seqdiag {
+ "foliant make site" -> "mkdocs preprocessor" -> "
+ blockdiag preprocessor" -> "mkdocs backend" -> site;
+ }
+ </seqdiag>
```

Blockdiag preprocessor adds several tags to Foliant, each corresponding to a certain diagram type. Sequence diagrams are defined with <seqdiag></seqdiag> tag. This is what we used in the sample above. The diagram definition sits in the tag body and the diagram properties such as caption or format are defined as tag parameters.

Rebuild the site with foliant make site and open it in the browser:

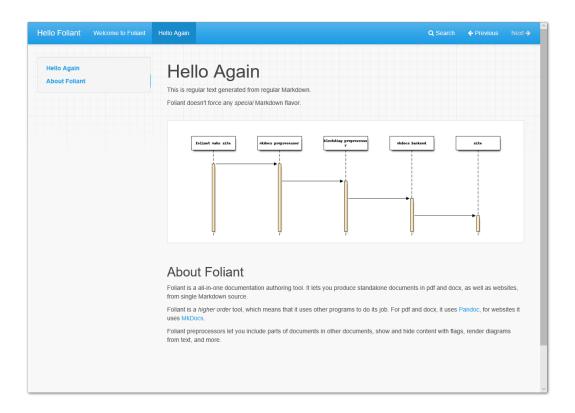


Figure 5. Sequence diagram drawn with seqdiag on the site

Rebuild the pdf as well and see that the diagram there:



Figure 6. Sequence diagram drawn with seqdiag in the pdf

Let's customize the look of the diagrams in our project by setting their properties in the config file. For example, let's use a custom font for labels. I'm using the ever popular Comic Sans font, but you can pick any font that's available in .ttf format.

Put the font file in the project directory and add the following lines to foliant.yml:

```
preprocessors:

- blockdiag

- blockdiag:

- params:

font: !path comic.ttf
```

After a rebuild, the diagram on the site and in the pdf should look like this:

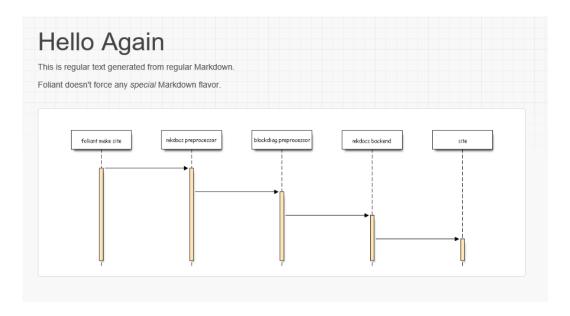


Figure 7. Sequence diagram with Comic Sans in labels, site

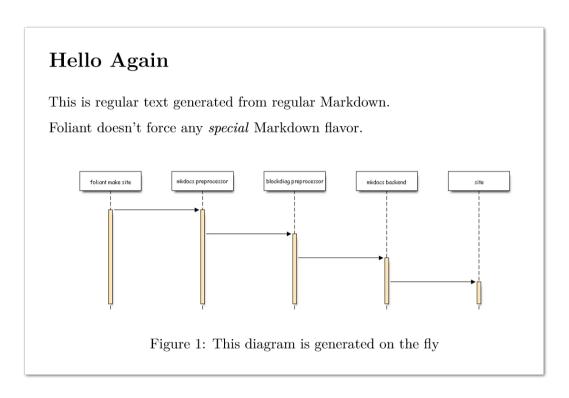


Figure 8. Sequence diagram with Comic Sans in labels, pdf

There are many more params you can define for your diagrams. You can override global params for particluar diagrams in their tags. And by combining this preprocessor with Flags you can even set different params for different backends, for example build vector diagrams for pdf output and bitmap for site:

The possibilities acquired by combining different preprocessors are endless!

Why Foliant Uses XML syntax for Preprocessor Tags

It's common for Markdown-based tools to extend Markdown with custom syntax for additional functions. There's no standard for custom syntax in the Markdown spec, so every developer uses whatever syntax is available for them, different one for every new extension.

In Foliant, we tried our best not to dive into this mess. Foliant aims to be an extensible platform, with many available preprocessors. So we needed one syntax for all preprocessors, but the one that was flexible enough to support them all.

After trying many options, we settled with XML. Yes, normally you'd have a nervous tick when you hear XML, and so would we, but this is one rare case where XML syntax belongs just right:

- it allows to provide tag body and named parameters
- it's familiar to every techwriter out there
- it's close enough to HTML, and HTML tags are actually allowed by the Markdown spec, so we're not even breaking the vanilla Markdown spec (almost)
- it's nicely highlighted in IDEs and text editors

Tutorials

Documenting API with Foliant

In this tutorial we will learn how to use Foliant to generate documentation from API specification formats OpenAPI (Swagger), RAML and API Blueprint.

The general idea is that you supply a specification file path (json or yaml for OpenAPI, raml for RAML) to a preprocessor which will generate a Markdown document out of it. Markdown is what Foliant is good at, so after that you can do anything with it: convert to PDF, partially include in other documents, etc. In this guide we will concentrate on building a static website for your API documentation.

Please note that in this article we cover only the basic usage of the tools. For detailed information on features and customizing output refer to each component's doc page.

OpenAPI

Installing prerequisites

Besides Foliant you will need to install some additional packages on your system. If you are using our full docker image foliant/foliant:full, you can skip this chapter.

First, install the SwaggerDoc preprocessor which will convert spec file to Markdown.

pip3 install foliantcontrib.swaggerdoc

SwaggerDoc preprocessor uses Widdershins under the hood, so you will need to install that too.

npm install -g widdershins

Finally, to build the static website we will be using Slate backend:

pip3 install foliantcontrib.slate

Also note that Slate requires Ruby and Bundler to work (that's a lot of dependencies, I know).

Creating project

Let's create Foliant project. The easiest way is to use foliant init command. After running the command Foliant will ask you about your project name. We've chosen "OpenAPI docs", but it may be anything:

```
cd ~/projects
foliant init
    Enter the project name: OpenAPI docs
Generating project... Done
Project "OpenAPI docs" created in openapi-docs
```

In the output Foliant informs us that the project was created in a new folder openapi -docs. Let's copy your OpenAPI spec file into this folder:

```
cp ~/Downloads/my_api.yaml ~/projects/openapi-docs
```

In the end you should get the following directory structure:

```
openapi-docs

Dockerfile

README.md

docker-compose.yml

foliant.yml

my_api.yaml

requirements.txt

src

index.md
```

If you wish to use Docker with full Foliant image, which is the recommended way to build Foliant projects, then open generated <code>Dockerfile</code> and replace its contents with the following line:

```
FROM foliant/foliant:full
```

Configuring project

Now let's set up foliant.yml. Right now it looks like this:

```
1 title: OpenAPI docs
2
3 chapters:
4 - index.md
```

First add and fill up the preprocessors section at the bottom:

At this stage you may also specify path to custom templates dir in environment: {user_tempaltes: path/to/custom/templates} parameter. Templates describe the exact way of how to convert structured specification file into a Markdown document. For this tutorial we will be using default templates because they are perfect for our static site. Check Widdershins docs for detailed info on templates.

The last thing we need to do is point Foliant where to insert the generated Markdown from the spec file. We already have a source file created for us by init command, called index.md, so let's use it to store our API docs.

Open openapi-docs/src/index.md with text editor and replace its contents with the following:

```
<swaggerdoc></swaggerdoc>
```

Foliant will insert generated markdown on the place of this tag during build. You may even add some kind of introduction for the API docs before the tag, if you don't have such inside your spec file.

That's it! All is left to do is run make command to build your site.

```
parsing config... Done
Applying preprocessor swaggerdoc... Done
Applying preprocessor slate... Done
Applying preprocessor __unescape... Done
Making site...

Done
Result: OpenAPI_docs-2019-11-29.slate/
```

If you use docker, the command is:

```
docker-compose run --rm foliant make site --with slate
```

Now if you open the index.html from just created OpenAPI_docs -2019-11-29.slate folder, you should see something like this:

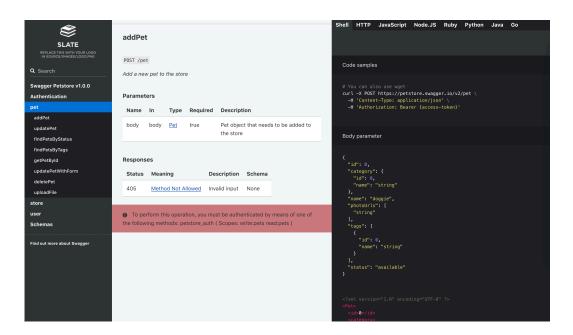


Figure 9. Slate static site

You can customize the page styles, add or remove language example tabs and tune other options. Check the Slate backend documentation for details.

RAML

Building API docs from RAML specification is quite similar to that of OpenAPI, the difference is that instead of swaggerdoc preprocessor you use ramldoc. We will go through all the steps anyway.

Installing prerequisites

Besides Foliant you will need to install some additional packages on your system. If you are using our full docker image foliant/foliant:full, you can skip this chapter.

First, install the RAMLdoc preprocessor which will convert spec file to Markdown.

pip3 install foliantcontrib.ramldoc

RAMLdoc preprocessor uses raml2html with full-markdown-theme under the hood, so you will need to install those too.

```
npm install -g raml2html raml2html-full-markdown-theme
```

Finally, to build the static website we will be using Slate backend. If you don't have it, run:

```
pip3 install foliantcontrib.slate
```

Also note that Slate requires Ruby and Bundler to work.

Creating project

Let's create Foliant project. The easiest way is to use foliant init command. After running the command Foliant will ask you about your project name. We've chosen "API docs", but it may be anything:

```
cd ~/projects
foliant init

Enter the project name: API docs
Generating project... Done

Project "API docs" created in api-docs
```

In the output Foliant informs us that the project was created in a new folder apidocs. Now let's copy your RAML spec file to this folder:

```
cp ~/Downloads/my_api.raml ~/projects/api-docs
```

In the end you should get the following directory structure:

```
api-docs

Dockerfile
```

If you wish to use Docker with full Foliant image, which is the recommended way to build Foliant projects, then open generated <code>Dockerfile</code> and replace its contents with the following line:

```
FROM foliant/foliant:full
```

Configuring project

Now let's set up foliant.yml. Right now it looks like this:

```
title: API docs

that the control of the contr
```

First add and fill up the preprocessors section at the bottom:

At this stage you may also specify path to custom templates dir in the template_dir parameter. Templates describe the exact way of how to convert structured specification file into a Markdown document. raml2html uses Nunjucks templates, which are stored in the theme. So the easiest way to create your own templates is to copy default ones and adjust them to your needs. But we will use the default template which works great with Slate.

The last thing we need to do is point Foliant where to insert the generated Markdown from the spec file. We already have a source file created for us by init command, called index.md, so let's use it to store our API docs.

Open api-docs/src/index.md with text editor and replace its contents with the following:

<ramldoc></ramldoc>

Foliant will insert generated markdown on the place of this tag during build. You may even add some kind of introduction for the API docs before the tag, if you don't have such in your spec file.

That's it! All is left to do is run make command to build your site.

```
Parsing config... Done
Applying preprocessor ramldoc... Done
Applying preprocessor slate... Done
Applying preprocessor _unescape... Done
Making site...

Project built successfully.

Done
Result: API_docs-2019-11-29.slate/
```

If you use docker, the command is:

```
docker-compose run --rm foliant make site --with slate
```

Now if you open the index.html from just created API_docs-2019-11-29. slate folder, you should see something like this:

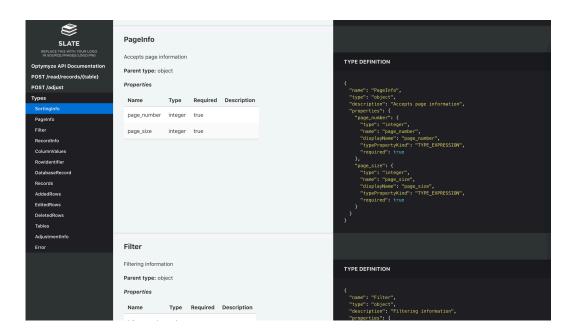


Figure 10. Slate static site

You can customize the page styles, add or remove language example tabs and tune other options. Check the Slate backend documentation for details.

Blueprint

API Blueprint is a Markdown-based API specification format. That's why the build process differs from that of OpenAPI or RAML: we skip the converting step and just add the specification file as a source.

Installing prerequisites

To build a static site we will use Aglio backend which is designed specifically for rendering API Blueprint. So first install the backend and Aglio renderer itself:

```
pip3 install foliantcontrib.aglio
pm install -g aglio
```

Creating project

Let's create a Foliant project. The easiest way is to use foliant init command. After running the command Foliant will ask you about your project name. We've chosen "API docs", but it may be anything:

```
cd ~/projects

foliant init

Enter the project name: API docs

Generating project... Done

Project "API docs" created in api-docs
```

In the output Foliant informs us that the project was created in a new folder apidocs. Now copy your Blueprint spec file into the src subfolder (it's better to change the extension to .md too), replacing "index.md":

```
cp ~/Downloads/spec.abip ~/projects/api-docs/src/index.md
```

In the end you should get the following directory structure:

```
openapi-docs

Dockerfile

README.md

docker-compose.yml

foliant.yml

requirements.txt

src

index.md
```

If you wish to use Docker with full Foliant image, which is the recommended way to build Foliant projects, then open generated <code>Dockerfile</code> and replace its contents with the following line:

FROM foliant/foliant:full

Configuring project

Now check your foliant.yml. Right now it looks like this:

```
title: API docs

chapters:
    - index.md # this should be your API Blueprint
specification
```

It may be hard to believe, but no other configuration is required! Let's build our project:

```
foliant make site --with aglio
Parsing config... Done
Applying preprocessor flatten... Done
Applying preprocessor _unescape... Done
Making site... Done
Result: OpenAPI_docs-2019-11-29.aglio
```

If you use docker, the command is:

```
docker-compose run --rm foliant make site --with aglio
```

Now if you open the index.html from just created API_docs-2019-11-29. aglio folder, you should see something like this:

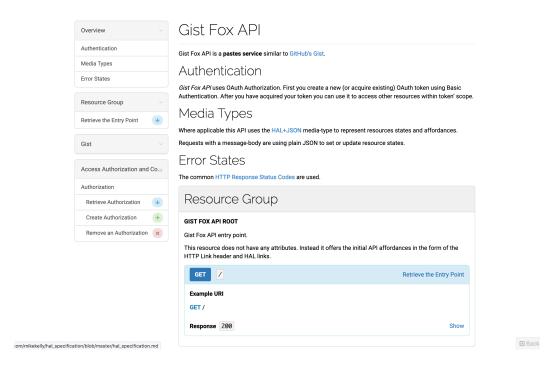


Figure 11. Aglio static site

It's not near as attractive as the Slate site we had in previous examples. But don't worry, Aglio supports styling with CSS and layout control with Jade templates. It also has several built-in themes, which look much better than the default one.

Open your foliant.yml again and add following lines at the end:

```
backend_config:
    aglio:
    params:
    theme-variables: streak
    theme-template: triple
```

Now run the same build command:

```
foliant make site --with aglio
```

And look at the result:

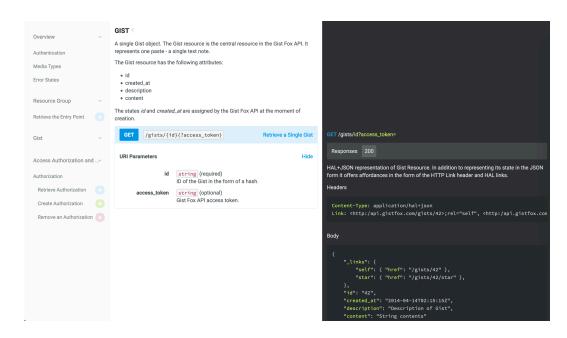


Figure 12. Aglio more beautiful static site

Much better!

Backends

Aglio

pypi **v1.0.0**

Aglio Backend for Foliant

Aglio backend generates API documentation from API Blueprint using aglio renderer.

This backend operates the site target.

Note, that aglio is designed to render API Blueprint documents. Blueprint syntax is very close to that of Markdown and you may be tempted to use this backend as a general purpose static site generator. It may work in some cases, but is not guaranteed to work in all of them.

Installation

```
$ pip install foliantcontrib.aglio
```

Usage

To use this backend aglio should be installed in your system. Follow the instruction in aglio repo.

To test if you've installed aglio properly run the aglio -h command, which should return you a list of options.

To generate a static website from your Foliant project run the following command:

```
6 Result: My_Awesome_Project.aglio
```

Config

You don't have to put anything in the config to use aglio backend. If it's installed, Foliant detects it.

To customize the output, use options in backend_config.aglio section:

```
backend_config:
    aglio:
    aglio_path: aglio
    params:
    theme-variables: flatly
    fullWidth: True
```

aglio_path Path to the aglio binary. Default: aglio
params Parameters which will be supplied to the aglio command. To get the list
 of possible parameters, run aglio -h or check the official docs.

Customizing output

Templates

You can customize the appearance of the static website build by aglio with Jade templates. Aglio has two built-in templates:

```
    default – two-column web-page;
```

triple - three-column web-page.

To add your own template, follow the instructions in the official docs.

To specify the template add the theme-template field to the params option:

```
backend_config:
    aglio:
    params:
    theme-template: triple
```

Color scheme

You can customize the color scheme of the website by specifying the color scheme name in theme-variables param.

Available built-in color schemes:

- default,
- cyborg,
- flatly,
- slate,
- streak.

You can also specify your own scheme in a LESS or CSS file.

```
backend_config:
    aglio:
    params:
        theme-variables: flatly
```

Stylesheets

Finally, you can provide custom stylesheets in a LESS or CSS file in theme-style param:

```
backend_config:
    aglio:
    params:
        theme-style: !path my-style.less
```

Confluence

pypi v0.6.4

Confluence backend for Foliant

Confluence backend generates confluence articles and uploads them on your confluence server. It can create and edit pages in Confluence with content based on your Foliant project.

It also has a feature of restoring the user inline comments, added for the article, even after the commented fragment was changed.

This backend adds the confluence target for your Foliant make command.

Installation

\$ pip install foliantcontrib.confluence

The backend requires Pandoc to be installed in your system. Pandoc is needed to convert Markdown into HTML.

Usage

To upload a Foliant project to Confluence server use make confluence command:

```
1 $ foliant make confluence
2 Parsing config... Done
3 Making confluence... Done
4
5 Result:
6 https://my_confluence_server.org/pages/viewpage.action?
pageId=123 (Page Title)
```

Config

You have to set up correct config for this backend to work properly.

Specify all options in backend_config.confluence section:

```
backend config:
    confluence:
     host: 'https://my_confluence_server.org'
      login: user
     password: user_password
      id: 124443
     title: Title of the page
      space_key: "~user"
     parent_id: 124442
     parent_title: Parent
10
     notify watchers: false
11
     toc: false
12
     restore_comments: true
13
     resolve if changed: false
14
     pandoc_path: pandoc
```

host Required Host of your confluence server.

login Login of the user who has permissions to create and update pages. If login is not supplied, it will be prompted during build.

password Password of the user. If password is not supplied, it will be prompted during build.

id ID of the page where the content will be uploaded. Only for already existing pages title Title of the page to be created or updated.

Remember that page titles in the space have to be unique.

space_key The space key where the page(s) will be created/edited. *Only for not yet existing pages*.

parent_id ID of the parent page under which the new one(s) should be created.
 Only for not yet existing pages.

parent_title Another way to define parent of the page. Lower priority than paren_di. Title of the parent page under which the new one(s) should be created. Parent should exist under the space_key specified. Only for not yet existing pages.

notify_watchers If true — watchers will be notified that the page has changed.
 Default: false

- **toc** Set to true to add table of contents to the beginning of the document. Default: false
- restore_comments Attempt to restore inline comments near the same places after updating the page. Default: true
- **resolve_if_changed** Delete inline comment from the source if the commented text was changed. This will automatically mark comment as resolved. Default: false
- **pandoc_path** Path to Pandoc executable (Pandoc is used to convert Markdown into HTML).

User's guide

Uploading articles

By default if you specify id or space_key and title in foliant.yml, the whole project will be built and uploaded to this page.

If you wish to upload separate chapters into separate articles, you need to specify the respective id or space_key and title in *meta section* of the chapter.

Meta section is a YAML-formatted field-value section in the beginning of the document, which is defined like this:

```
1 ---
2 field: value
3 field2: value
4 ---
5
6 Your chapter md-content
```

If you want to upload a chapter into confluence, add its properties under the confluence key like this:

```
confluence:
title: My confluence page
space_key: "~user"
```

7 You chapter md-content

Important notice! Both modes work together. If you specify the id1 in foliant.yml and id2 in chapter's meta — the whole project will be uploaded to the page with id1, and the specific chapter will also be uploaded to page with id2.

Creating pages

If you want a new page to be created for content in your Foliant project, just supply in foliant.yml the space key and a title which does not yet exist in this space. Remember that in Confluence page titles are unique inside one space. If you use a title of an already existing page, the backend will attempt to edit it and replace its content with your project.

Example config for this situation is:

```
backend_config:
confluence:
host: https://my_confluence_server.org
login: user
password: pass
title: My unique title
space_key: "~user"
```

Now if you change the title in your config, confluence will *create a new page with the new title*, leaving the old one intact.

If you want to change the title of your page, the answer is in the following section.

Updating pages

Generally to update the page contents you may use the same config you used to create it (see previous section). If the page with specified title exists, it will be updated.

Also, you can just specify the id of an existing page. After build its contents will be updated.

```
backend_config:
confluence:
host: https://my_confluence_server.org
login: user
password: pass
id: 124443
```

This is also *the only* way to edit a page title. If title param is specified, the backend will attempt to change the page's title to the new one:

```
backend_config:
confluence:
host: https://my_confluence_server.org
login: user
password: pass
id: 124443
title: New unique title
```

Updating part of a page

Confluence backend can also upload an article into the middle of a Confluence page, leaving all the rest of it intact. To do this you need to add an *Anchor* into your page in the place where you want Foliant content to appear.

- 1. Go to Confluence web interface and open the article.
- 2. Go to Edit mode.
- 3. Put the cursor in the position where you want your Foliant content to be inserted and start typing {anchor to open the macros menu and locate the Anchor macro.
- 4. Add an anchor with the name foliant.
- 5. Save the page.

Now if you upload content into this page (see two previous sections), Confluence backend will leave all text which was before and after the anchor intact, and add your Foliant content in the middle.

You can also add two anchors: foliant_start and foliant_end. In this case all text between these anchors will be replaced by your Foliant content.

Inserting raw confluence tags

If you want to supplement your page with confluence macros or any other storage-specific html, you may do it by wrapping them in the <raw_confluence></raw_confluence> tag.

For example, if you wish to add a table of contents into the middle of the document for some reason, you can do something like this:

- Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odit dolorem nulla quam doloribus delectus voluptate.
- 3 <raw_confluence><ac:structured-macro ac:macro-id="1" ac:name
 ="toc" ac:schema-version="1"/></raw_confluence>
- 5 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Officiis, laboriosam cumque soluta sequi blanditiis, voluptatibus quaerat similique nihil debitis repellendus.

MdToPdf

pypi v1.0.0

MdToPdf backend for Foliant.

This backend generates a single PDF document from your Foliant project. It uses md-to-pdf library under the hood.

md-to-pdf supports styling with CSS, automatic syntax highlighting by highlight.js, and PDF generation with Puppeteer.

MdToPdf backend for Foliant operates the pdf target.

Installation

First install md-to-pdf on your machine:

```
$ npm install -g md-to-pdf
```

Then install the backend:

```
$ pip install foliantcontrib.mdtopdf
```

Usage

```
1 $ foliant make pdf --with mdtopdf
2 Parsing config... Done
3 Applying preprocessor flatten... Done
4 Applying preprocessor mdtopdf... Done
5 Applying preprocessor _unescape... Done
6 Making pdf with md-to-pdf... Done
7
8 Result: MyProject.pdf
```

Config

You don't have to put anything in the config to use MdToPdf backend. If it's installed, Foliant will detect it.

You can however customize the backend with options in backend_config. mdtopdf section:

```
backend_config:
  mdtopdf:
  mdtopdf_path: md-to-pdf
  options:
    stylesheet: https://cdnjs.cloudflare.com/ajax/libs/
github-markdown-css/2.10.0/github-markdown.min.css
  body_class: markdown-body
  css: |-
    .page-break { page-break-after: always; }
    .markdown-body { font-size: 11px; }
```

```
.markdown-body pre > code { white-space: pre-wrap; }
```

mdtopdf_path is the path to md-to-pdf executable. Default: md-to-pdf options is a mapping of options which then will be converted into JSON and fed to the md-to-pdf command. For all possible options consult the md-to-pdf documentation.

MkDocs

MkDocs backend lets you build websites from Foliant projects using MkDocs static site generator.

The backend adds three targets: mkdocs, site, and ghp. The first one converts a Foliant project into a MkDocs project without building any html files. The second one builds a standalone website. The last one deploys the website to GitHub Pages.

Installation

```
$ pip install foliantcontrib.mkdocs
```

Usage

Convert Foliant project to MkDocs:

```
1 $ foliant make mkdocs -p my-project ✓
2 Parsing config ✓
3 Applying preprocessor mkdocs ✓
4 Making mkdocs with MkDocs——
5
6 Result: My_Project-2017-12-04.mkdocs.src
```

Build a standalone website:

```
6 Result: My_Project-2017-12-04.mkdocs

Deploy to GitHub Pages:

1 $ foliant make ghp -p my-project✓
2 Parsing config ✓
```

```
Parsing config 
Applying preprocessor mkdocs 
Making ghp with MkDocs

Result: https://account-name.github.io/my-project/
```

Config

You don't have to put anything in the config to use MkDocs backend. If it's installed, Foliant detects it.

To customize the output, use options in backend_config.mkdocs section:

```
backend_config:
   mkdocs:
   mkdocs_path: mkdocs
   slug: my_awesome_project
   use_title: true
   use_chapters: true
   use_headings: true
   default_subsection_title: Expand
   mkdocs.yml:
        site_name: Custom Title
   site_url: http://example.com
   site_author: John Smith
```

mkdocs_path Path to the MkDocs executable. By default, mkdocs command is run, which implies it's somewhere in your PATH.

slug Result directory name without suffix (e.g. .mkdocs). Overrides top-level config option slug.

use_title If true, use title value from foliant.yml as site_name in
 mkdocs.yml. It this case, you don't have to specify site_name in mkdocs.
 yml section. If you do, the value from mkdocs.yml section has higher priority.
 If false, you must specify site_name manually, otherwise MkDocs will not
 be able to build the site.

Default is true.

- use_chapters Similar to use_title, but for pages. If true, chapters value
 from foliant.yml is used as pages in mkdocs.yml.
- **use_headings** If true, the resulting data of pages section in mkdocs.yml will be updated with the content of top-level headings of source Markdown files.
- **default_subsection_title** Default title of a subsection, i.e. a group of nested chapters, in case the title is specified as an empty string. If default_subsection_title is not set in the config, ... will be used.
- **mkdocs.yml** Params to be copied into mkdocs.yml file. The params are passed "as is," so you should consult with the MkDocs configuration docs.

Preprocessor

MkDocs backend ships with a preprocessor that transforms a Foliant project into a MkDocs one. Basically, foliant make mkdocs just applies the preprocessor.

The preprocessor is invoked automatically when you run MkDocs backend, so you don't have to add it in preprocessors section manually.

However, it's just a regular preprocessor like any other, so you can call it manually if necessary:

```
preprocessors:
    - mkdocs:
         mkdocs_project_dir_name: mkdocs
```

mkdocs_project_dir_name Name of the directory for the generated MkDocs project within the tmp directory.

Troubleshooting

Fenced Code Is Not Rendered in List Items or Blockquotes

MkDocs can't handle fenced code blocks in blockquotes or list items due to an issue in Python Markdown.

Unfortunately, nothing can be done about it, either on MkDocs's or Foliant's part. As a workaround, use indented code blocks.

Paragraphs Inside List Items Are Rendered on the Root Level

Check if you use **four-space indentation**. Python Markdown is stern about this point.

Pandoc

Pandoc is a Swiss-army knife document converter. It converts almost any format to any other format: md to pdf, rst to html, adoc to docx, and so on and so on.

Pandoc backend for Foliant add pdf, docx, and tex targets.

Installation

```
$ pip install foliantcontrib.pandoc
```

You also need to install Pandoc and TeXLive distribution for your platform.

Usage

Build pdf:

```
1 $ foliant make pdf -p my-project ✓
2 Parsing config ✓
3 Applying preprocessor flatten ✓
4 Making pdf with Pandoc——
5
6 Result: My_Project-2017-12-04.pdf
```

Build docx:

```
1 $ foliant make docx -p my-project✓
2 Parsing config✓
3 Applying preprocessor flatten✓
4 Making docx with Pandoc—
5
6 Result: My_Project-2017-12-04.docx
```

Build tex (mostly for pdf debugging):

```
1 $ foliant make tex -p my-project✓
2 Parsing config✓
3 Applying preprocessor flatten✓
4 Making docx with Pandoc———
5
6 Result: My_Project-2017-12-04.tex
```

Config

You don't have to put anything in the config to use Pandoc backend. If it's installed, Foliant will detect it.

You can however customize the backend with options in backend_config. pandoc section:

```
backend_config:
pandoc:
pandoc_path: pandoc
template: !path template.tex
vars:
...
reference_docx: !path reference.docx
params:
...
filters:
...
markdown_flavor: markdown
markdown_extensions:
```

```
slug: My_Awesome_Custom_Slug
```

pandoc_path is the path to pandoc executable. By default, it's assumed to be in the PATH.

template is the path to the TeX template to use when building pdf and tex (see "Templates" in the Pandoc documentation).

Tip

Use !path tag to ensure the value is converted into a valid path relative to the project directory.

vars is a mapping of template variables and their values.

reference_docx is the path to the reference document to used when building docx (see "Templates" in the Pandoc documentation).

Tip

Use !path tag to ensure the value is converted into a valid path relative to the project directory.

params are passed to the pandoc command. Params should be defined by their long names, with dashes replaced with underscores (e.g. --pdf-engine is defined as pdf_engine).

filters is a list of Pandoc filters to be applied during build.

- markdown_flavor is the Markdown flavor assumed in the source. Default is markdown, Pandoc's extended Markdown. See "Markdown Variants" in the Pandoc documentation.
- markdown_extensions is a list of Markdown extensions applied to the Markdown source. See Pandoc's Markdown in the Pandoc documentation.
- **slug** is the result file name without suffix (e.g. .pdf). Overrides top-level config option slug.

Example config:

```
1 backend_config:
   pandoc:
      template: !path templates/basic.tex
      vars:
        toc: true
        title: This Is a Title
        second_title: This Is a Subtitle
        logo: !path templates/logo.png
        year: 2017
      params:
10
        pdf_engine: xelatex
11
        listings: true
12
        number_sections: true
13
      markdown_extensions:
        - simple_tables
15
        - fenced code blocks
16
        - strikeout
17
```

Troubleshooting

Could not convert image ...: check that rsvq2pdf is in path

In order to use svg images in pdf, you need to have rsvg-convert executable in PATH.

On macOS, brew install librsvg does the trick. On Ubuntu, apt install librsvg2-bin. On Windows, download rsvg-convert.7z (without fontconfig support), unpack rsvg-convert.exe, and put it anywhere in PATH. For example, you can put it in the same directory where you run foliant make.

LaTeX listings package does not work correctly with non-ASCII characters, e.g. Cyrillic letters If you use non-ASCII characters inside backticks in your document, you can see an error like this:

```
1 Error producing PDF.
2 ! Undefined control sequence.
3 \lst@arg ->git clone [SSHκ-
```

```
люч]
5 l.627 ...through{\lstinline!git clone [SSНключ-]!}
```

To fix it, set listings parameter to false:

```
backend_config:
pandoc:

...
params:
pdf_engine: xelatex
listings: false
number_sections: true
...
```

Slate

pypi v1.0.7

Slate Backend for Foliant

Slate backend generates API documentation from Markdown using Slate docs generator.

This backend operates two targets:

- site build a standalone website;
- slate generate a slate project out from your Foliant project.

Installation

```
$ pip install foliantcontrib.slate
```

Usage

To use this backend Slate should be installed in your system. Follow the instruction in Slate repo.

To test if you've installed Slate properly head to the cloned Slate repo in your terminal and try the command below. You should get similar response.

```
1 $ bundle exec middleman
2 == The Middleman is loading
3 == View your site at ...
4 == Inspect your site configuration at ...
```

To convert Foliant project to Slate:

Build a standalone website:

```
1 $ foliant make site ✓
2 Parsing config ✓
3 Making site————
4
5 Result: My_Project-2018-09-19.slate/
```

Config

You don't have to put anything in the config to use Slate backend. If it is installed, Foliant detects it.

To customize the output, use options in backend_config.slate section:

```
backend_config:
slate:
shards: data/shards
header:
```

```
title: My API documentation
language_tabs:
    - xml: Response example
search: true
```

shards Path to the shards directory relative to Foliant project dir or list of such paths. Shards allow you to customize Slate's layout, add scripts etc. More info on shards in the following section. Default: shards

header Params to be copied into the beginning of Slate main Markdown file index .html.md. They allow you to change the title of the website, toggle search and add language tabs. More info in Slate Wiki.

About shards

Shards is just a folder with files which will be copied into the generated Slate project replacing all files in there. If you follow the Slate project structure you can replace stylesheets, scripts, images, layouts etc to customize the view of the resulting site.

If shards is a string — it is considered a path to single shards directory relative to Foliant project dir:

```
slate:
shards: 'data/shards'
```

If shards is a list — each list item is considered as a shards dir. They will be copied into the Slate project subsequently with replace.

```
slate:
shards:
- 'common/shards'
- 'custom/shards'
- 'new_design'
```

For example, I want to customize standard Slate stylesheets. I look at the Slate repo and see that they lie in the folder <slate>/source/stylesheets. I create new stylesheets with the same names as the original ones and put them into my shards dir like that:

```
shards\
source\
source\
stylesheets\
__variables.scss
screen.css.scss
```

These stylesheets will replace the original ones in the Slate project just before the website is be baked. So the page will have my styles in the end.

Preprocessors

General Notes

Most simple preprocessors apply unconditionally to the whole content of each Markdown file in the Foliant project. But usually preprocessors look for some specific pseudo-XML tags in Markdown content. Each preprocessor registers its own set of tags.

Tags can have attributes and a body. Attributes are usually used to specify some required or optional parameters. Body is the content that is enclosed between opening and closing tags; preprocessors usually do something with this content:

```
<tag attribute_1="value_1" ... attribute_N="value_N">body</tag>
```

Foliant under 1.0.8 tries to convert each attribute value into a boolean value, a number, or a string. Attribute values must be enclosed in double quotes (").

Since Foliant 1.0.9, attribute values are processed as YAML. Scalar values are also converted into boolean values, numbers and strings, but you may specify composite values that should be transformed into lists or dictionaries. You may also use modifiers (i.e. YAML tags) that are available in the Foliant project's config.

- **!path** The string preceded by this modifier should be converted into an existing path relative to the Foliant project's top-level ("root") directory.
- !project_path The string preceded by this modifier should be converted into a path relative to the Foliant project's top-level ("root") directory. This path may be nonexistent.
- **!rel_path** The string preceded by this modifier should be converted into a path relative to the currently processed Markdown file. This path may be nonexistent.

If you develop a preprocessor that accepts some path, by default it is better to be a path relative to the currently processed Markdown file.

Also, since Foliant 1.0.9, attribute values may be enclosed into double (") or single (') quotes.

Admonitions

pypi v1.0.0

Admonitions preprocessor for Foliant

Preprocessor which tries to make admonitions syntax available for most backends.

Admonitions are decorated fragments of text which indicate a warning, notice, tip, etc.

We use rST-style syntax for admonitions which is already supported by mkdocs backend with admonition extension turned on. This preprocessor makes this syntax work for pandoc and slate backends.

Installation

\$ pip install foliantcontrib.admonitions

Config

Just add admonitions into your preprocessors list. Right now the preprocessor doesn't have any options:

```
preprocessors:
- admonitions
```

Usage

Add an admonition to your Markdown file:

```
1 !!! warning "optional admonition title"
2 Admonition text.
3
4 May be several paragraphs.
```

Notes for slate

Slate has its own admonitions syntax of three types: notice (blue notes), warning (red warnings) and success (green notes). If another type is supplied, slate draws a blue note but without the "i" icon.

Admonitions preprocessor transforms some of the general admonition types into slate's for convenience (so you could use error type to display same kind of note in both slate and mkdocs). These translations are indicated in the table below:

original type	translates to
error	warning
danger	warning
caution	warning
info	notice
note	notice
tip	notice
hint	notice

Anchors



Anchors

Preprocessor which allows to use arbitrary anchors in Foliant documents.

Installation

\$ pip install foliantcontrib.anchors

Config

To enable the preprocessor, add anchors to preprocessors section in the project config:

- preprocessors:
- anchors

The preprocessor has some options, but most probably you won't need any of them:

element Template of an HTML-element which will be placed instead of the <
 anchor> tag. In this template {anchor} will be replaced with the tag contents. Default: ''

tex If this option is True, preprocessor will try to use TeX-language anchors: \
 hypertarget{anchor}{}. Default: False

Notice, this option will work only with pdf target. For all other targets it is set to False.

Usage

Just add an anchor tag to some place and then use an ordinary Markdown-link to this anchor:

```
1 ...
2
3 <anchor>limitation</anchor>
4 Some important notice about system limitation.
5
6 ...
7
8 Don't forget about [limitation](#limitation)!
```

You can also place anchors in the middle of paragraph:

```
Lorem ipsum dolor sit amet, consectetur adipisicing elit.<a href="https://doi.or/">anchor/middle</anchor/</a> Molestiae illum iusto, sequi magnam
```

```
consequatur porro iste facere at fugiat est corrupti dolorum
  quidem sapiente pariatur rem, alias unde! Iste, aliquam.

Go to the middle of the paragraph](#middle)
```

You can place anchors inside tables:

```
1
2 Name | Age | Weight
3 ---- | ---- | ------
4 Max | 17 | 60
5 Jane | 98 | 12
6 John | 10 | 40
7 Katy | 54 | 54
8 Mike <anchor>Mike</anchor>| 22 | 299
9 Cinty| 25 | 42

10
11 ...
12
13 Something's wrong with Mike, [look](#Mike)!
```

Additional info

1. Anchors are case sensitive

Markdown and MarkDown are two different anchors.

2. Anchors should be unique

You can't use two anchors with the same name in one document.

If preprocessor notices repeating anchors in one md-file it will throw you a warning.

If there are repeating anchors in different md-files and they all go into single pdf or docx, all links will lead to the first one.

3. Anchors may conflict with headers

Headers are usually assigned anchors of their own. Be careful, your anchors may conflict with them.

Preprocessor will try to detect if you are using anchor which is already taken by the header and warn you in console.

Remember, that header anchors are almost always in lower-case and almost never use special symbols except -.

4. Some symbols are restricted

You can't use these symbols in anchors:

```
[]<>\"
```

Also you can't use space.

5. But a lot of other symbols are available

All these are valid anchors:

```
1 <anchor>!important!</anchor>
2 <anchor>_anchor_</anchor>
3 <anchor>section(1)</anchor>
4 <anchor>section/1/</anchor>
5 <anchor>anchor$1$</anchor>
6 <anchor>about:info</anchor>
7 <anchor>test'1';</anchor>
8 <anchorякорь></anchor>
9 <anchor[]></anchor>
```

Notice for Mkdocs

In many Mkdocs themes the top menu lays over the text with absolute position. In this situation all anchors will be hidden by the menu.

Possible solution is to use element option. Example config:

APILinks

Preprocessor for replacing API *references* in markdown files with links to actual method description on the API documentation web-page.

Installation

```
$ pip install foliantcontrib.apilinks
```

Quick Start

Say, you have an API documentation hosted at the url http://example.com/api-docs On this page you have HTML headings before each method description which look like this:

```
<h2 id="get-user-authenticate">GET user/authenticate</h2>
```

You want references to these methods in your documentation to be replaced with the links to the actual method descriptions. Your references look like this:

```
To authenticate user use API method `GET user/authenticate`.
```

Now all you need to do is add the apilinks preprocessor into your foliant.yml and state your API url in its options like this:

Here:

- API is a required section;
- My-API is a local name of your API. Right now it is not very important but will come in handy in the next example;

 url is a string with full url to your API documentation web-page. It will be used to validate references and to construct a link to method.

After foliant applies the preprocessor your document will be transformed into this:

To authenticate user use API method [GET user/authenticate](http://example.com/api-docs/#get-user-authenticate).

Notice that preprocessor figured out the correct anchor #get-user-authenticate by himself. Now instead of plain name of the method you've got a link to the method description!

Ok, what if I have two different APIs: client API and admin API?

No problem, put both of them into your config:

Now this source:

- 1 To authenticate user use API method `GET user/authenticate`.
- 2 To ban user from the website use admin API method `POST
 admin/ban user/{user id}`

Will be transformed by apilinks into this:

- 1 To authenticate user use API method [GET user/authenticate](
 http://example.com/client/api-docs/#get-user-authenticate).
- To ban user from the website use admin API method [POST
 admin/ban_user/{user_id}](http://example.com/admin/api-docs
 /#post-admin-ban_user-user_id)

Notice that apilinks determined that the first reference is from Client API, and the second one is from the Admin API. How is that possible? Easy: preprocessor parses each API url from the config and stores their methods before looking for references. When the time comes to process the references it already has a list of all methods to validate your reference and to determine which API link should be inserted.

But what if we have the same-named method in both of our APIs? In this case you will see a warning:

```
WARNING: GET /service/healthcheck is present in several APIs (Client-API, Admin-API). Please, use prefix. Skipping
```

It suggests us to use prefix, and by that it means to prefix the reference by the local name of the API in config. Like that:

- 1 Check status of the server through Client API: `Client-API:
 GET /service/healthcheck`
- 2 Do the same through Admin API: `Admin-API: GET /service/ healthcheck`

Here Client-API: and Admin-API: are prefixes. And they should be the same as your API names in the config.

Now each reference will be replaced with the link to corresponding API web-page.

apilinks is a highly customizable preprocessor. You can tune:

- the format of the references;
- the output string which will replace the reference;
- the format of the headings in your API web-page;
- and more!

For details look through the following sections.

Glossary:

- reference reference to an API method in the source file. The one to be replaced with the link, e.g. GET user/config
- **verb** HTTP method, e.g. GET, POST, etc.

- command resource used to represent method on the API documentation webpage, e.g. /service/healthcheck.
- endpoint prefix A prefix from server root to the command. If the command is /user/status and full resource is /api/v0/user/satus then the endpointprefix should be stated /api/v0. In references you can use either full resource ({endpoint_prefix}/{command}) or just the command. apilinks will sort it out for you.
- output string, which will replace the reference.
- header HTML header on the API documentation web-page of the method description, e.g. <h2 id="get-user-config">GET user/config</h2>
- anchor web-anchor leading to the specific *header* on the API documentation web-page, e.g. #get-user-config

How Does It Work?

Preprocessor can work in online and offline modes.

In offline mode it merely replaces *references* to API methods with links to their description. The references are catched by a regular expression. The link url is taken from config and the link *anchor* is generated from the reference automatically.

You can have several different APIs stated in the config. You can use prefixes to point out which API is being *referenced*. Prefixes format may be customized in the configuration but by default you do it like this: Client-API: GET user/name. Here "Client-API" is a prefix.

If you don't use prefix in the *reference* preprocessor will suppose that you meant the default API, which is marked by default option in config. If none of them is marked — goes for the first in list.

In online mode things are getting interesting. Preprocessor actually goes to each of the API web-pages, and collects all method **headers** (right now only h2 headers are supported). Then it goes through your document's source: when it meets a *reference*, it looks through all the collected methods and replaces the reference with the correct link to it. If method is not found — preprocessor will show warning and leave the reference unchanged. Same will happen if there are several methods with this name in different APIs.

Prefixes, explained before, are supported too.

Config

To enable the preprocessor, add apilinks to preprocessors section in the project config:

```
preprocessors:
    - apilinks
```

The preprocessor has a lot of options. For your convenience the required options are marked *(required)*; and those options which are used in customization are marked *(optional)*. Most likely you will need just one or two of the latter.

```
preprocessors:
2 - apilinks:
      targets:
          - site
      offline: False
      trim_if_targets:
          - pdf
      prefix_to_ignore: Ignore
      reference:
          - regex: *ref pattern
10
            only_with_prefixes: false
11
            only_defined_prefixes: true
12
            output_template: '[{verb} {command}]({url})'
13
            trim_template: '`{verb} {command}`'
      API:
15
          Client-API:
16
              url: http://example.com/api/client
17
              default: true
18
              header_template: '{verb} {command}'
          Admin-API:
20
              url: http://example.com/api/client
21
              header_template: '{command}'
22
              endpoint-prefix: /api/v0
23
```

- prefix_to_ignore (optional) A default prefix for ignoring references. If apilinks
 meets a reference with this prefix it leaves it unchanged. Default: Ignore
- targets (optional) List of supported targets for foliant make command. If target is not listed here — preprocessor won't be applied. If the list is empty preprocessor will be applied for any target. Default: []
- offline (optional) Option determining whether the preprocessor will work in online or offline mode. Details in the How Does It Work? and Online and Offline Modes

 Comparison sections. Default: False
- trim_if_targets (optional) List of targets for foliant make command for
 which the prefixes from all references in the text will be cut out. Default: []

Only those references whose prefixes are defined in the API section (described below) are affected by this option. All references with unlisted prefixes will not be trimmed.

reference (optional) A subsection for listing all the types of references you are going to catch in the text, and their properties. Options for this section are listed below.

Reference options regex : *(optional)* regular expression used to catch *references* in the source. Look for details in the **Capturing References** section. Default:

(?P<source>`((?P<prefix>[\w-]+):\s*)?(?P<verb>OPTIONS|GET|
HEAD|POST|PUT|DELETE|TRACE|CONNECT|PATCH|LINK|UNLINK)\s+(?P<
command>\S+)`)

- only_with_prefixes (optional) if this is true, only references with prefix will
 be transformed. Ordinary links like GET user/info will be ignored. Default:
 false
- only_defined_prefixes (optional) if this is true all references whose prefix is
 not listed in the API section (described below) will be ignored, left unchanged.
 References without prefix are not affected by this option. Default: false.
- output_template (optional) A template string describing the output which will replace the reference. More info in the Customizing Output section. Default: '[{
 verb} {command}]({url})'

trim_template (optional) Only for targets listed in trim_if_targets option.
Tune this template if you want to customize how apilinks cuts out prefixes. The
reference will be replaced with text based on this template. Default: '`{verb}
} {command}`'

API (required) A subsection for listing all the APIs and their properties. Under this

section there should be a separate subsection for each API. The section name represents the API name and, at the same time, the *prefix* used in the references.

You need to add at least one API subsection for preprocessor to work.

API properties

url (required) An API documentation web-page URL. It will be used to construct the full link to the method. In online mode it will also be parsed by preprocessor for validation.

default (optional) Only for offline mode. Marker to define the default API. If several APIs are marked default, preprocessor will choose the first of them. If none is marked default — the first API in the list will be chosen. The value of this item should be true.

header_template (optional) A template string describing the format of the headings in the API documentation web-page. Details in parsing API web-page section. Default: '{verb} {command}'

endpoint-prefix (optional) The endpoint prefix from the server root to API methods. If is stated — apilinks can divide the command in the reference and search for it more accurately. Also you could use it in templates. More info coming soon. Default: ''

Online and Offline Modes Comparison

Let's study an example and look how the behavior of the preprocessor will change in online and offline modes.

We have three APIs described in the config:

Now let's look at different examples of the text used in Markdown source and how it is going to be transformed in Offline and Online modes

Example 1 Source:

Unprefixed link which only exists in Remote API: `GET system /info`.

In *Offline mode* preprocessor won't do any checks and just replace the reference with the link to default API from the config:

Unprefixed link which only exists in Remote API: [GET system
/info](http://example.com/api/client/#get-system-info).

This is certainly a wrong decision, but it is our fault, we sould have added the prefix to the reference.

But let's look what will happen in Online mode:

Unprefixed link which only exists in Remote API: [GET system
/info](https://remote.net/api-ref/#system-info).

Without any prefix the preprocessor determined that it should choose the Remote API to replace this reference because this method exists only on its page. The default option is just ignored in this mode.

By the way, notice how anchors differ in the two examples. For Remote API preprocessor used its header template to reconstruct the anchor, dropping the verb from it.

Example 2 Source:

- 1 Unprefixed link with misprint: `GET user/sttus`.
- The link is incorrect, there's no such method in any of the APIs.

In *Offline mode* preprocessor won't do any checks again. No magic, the reference will be replaced with the link to default API from the config:

- 1 Unprefixed link with misprint: [GET user/sttus](http:// example.com/api/client/#get-user-sttus).
- 2 The link is incorrect, there's no such method in any of the APIs.

In *Online mode* preprocessor won't be able to find the method during validation and the reference won't be replaced at all:

- 1 Unprefixed link with misprint: `GET user/sttus`.
- 2 The link is incorrect, there's no such method in any of the APIs.

During the Foliant project assembly you will see a warning message:

WARNING: Cannot find method GET user/sttus. Skipping

Example 3 Source:

Prefixed link to the Admin API: `Admin-API: POST user/ban_forever`.

In *Offline mode* preprocessor will notice the prefix and will be able to replace the reference with an appropriate link:

Prefixed link to the Admin API: [POST user/ban_forever](http://example.com/api/client/#post-user-ban_forever).

Notice that prefix disappeared from the text. If you wish it to stay there — edit the output_template option to something like this: '{prefix}: {verb} {command}'.

In *Online mode* the result will be exactly the same. Preprocessor will check the Admin-API methods, find there the referenced method and replace it in the text:

Prefixed link to the Admin API: [POST user/ban_forever](http://example.com/api/client/#post-user-ban_forever).

Example 4

- 1 Prefixed link to the Remote API with a misprint: `Remote-API
 : GET billling/info`.
- 2 Oh no, the method is incorrect again.

In *Offline mode* preprocessor will perform no checks and just replace the reference with the link to Remote API:

- Prefixed link to the Remote API with a misprint: [GET billling/info](https://remote.net/api-ref/#get-billling-info).
- 2 Oh no, the method is incorrect again.

Online mode, on the other hand, will make its homework. It will check whether the Remote API actually has the method *GET billling/info*. Finding out that it hasn't it will leave the reference unchanged:

- Prefixed link to the Remote API with a misprint: `Remote-API
 : GET billling/info`.
- 2 Oh no, the method is incorrect again.

...and warn us with the message:

WARNING: Cannot find method GET billling/info in Remote-API. Skipping

Example 5

Now let's reference a method which is present in both Client and Admin APIs: `GET service/healthcheck`.

In Offline mode preprocessor will just replace the reference with a link to default API:

Now let's reference a method which is present in both Client and Admin APIs: [GET service/healthcheck](http://example.com/api/client/#get-service-healthcheck).

But in *Online mode* preprocessor will go through all API method lists. It will find several mentions of this exact method and, confused, won't replace the reference at all:

Now let's reference a method which is present in both Client and Admin APIs: `GET service/healthcheck`.

You will also see a warning:

WARNING: GET /service/healthcheck is present in several APIs (Admin-API, Client-API). Please, use prefix. Skipping

Capturing References

apilinks uses regular expressions to capture *references* to API methods in Markdown files.

The default reg-ex is as following:

```
(?P<source>`((?P<prefix>[\w-]+):\s*)?(?P<verb>OPTIONS|GET|
HEAD|POST|PUT|DELETE|TRACE|CONNECT|PATCH|LINK|UNLINK)\s+(?P<
command>\S+)`)
```

This expression accepts references like these:

- Client-API: GET user/info
- UPDATE user/details

Notice that default expression uses *Named Capturing Groups*. You would probably want to use all of them too if you are to redefine the expression. Though not all of them are required, see the table below.

Group	Required	Description
source	YES	The full original reference string
prefix	NO	Prefix pointing to the name of the API
		from config
verb	NO	HTTP verb as GET, POST, etc
command	YES	the full method resource as it is stated
		in the API header (may include
		endpoint prefix)

To redefine the regular expression add an option reg-regex to the preprocessor config.

For example, if you want to capture ONLY references with prefixes you may use the following:

```
preprocessors:
    - apilinks:
    reference:
```

```
- regex: '(?P<source>`((?P<prefix>[\w-]+):\s*)(?P<verb
>POST|GET|PUT|UPDATE|DELETE)\s+(?P<command>\S+)`)'
```

This example is for illustrative purposes only. You can achieve the same goal by just switching on the only_with_prefixes option.

Now the references without prefix (UPDATE user/details) will be ignored.

Customizing Output

You can customize the *output*-string which will replace the *reference* string. To do that add a template into your config-file.

A *template* is a string which may contain properties, surrounded by curly braces. These properties will be replaced with the values, and all the rest will remain unchanged.

For example, look at the default template:

```
preprocessors:
    - apilinks:
    reference:
    - output_template: '[{verb} {command}]({url})',
```

Don't forget the single quotes around the template. This way we say to yaml engine that this is a string for it not to be confused with curly braces.

With the default template, the reference string will be replaced by something like that:

```
[GET user/info](http://example.com/api/#get-user-info)
```

If you don't want references to be transfromed into links, use your own template. Properties you may use in the template:

property	description	example
url	Full url to the method description	http://example. com/api/#get-
		user-info

property	description	example
source	Full original reference string	'Client-API: GET user/info'
prefix	Prefix used in the reference	Client-API
verb	HTTP verb used in the reference	GET
command	API command being referenced with endpoint prefix removed	user/info
endpoint_prefix	Endpoint prefix to the API (if endpoint-prefix option is filled in)	/api/v0

Parsing API Web-page

apilinks goes through the API web-page content and gathers all the methods which are described there.

To do this preprocessor scans each HTML h2 tag and stores its id attribute (which is an *anchor* of the link to be constructed) and the contents of the tag (the *heading* itself).

For example in this link:

<h2 id="get-user-info">GET user/info</h2>

the anchor would be get-user-info and the heading would be GET user/info.

To construct the link to the method description we will have to create the correct anchor for it. To create an anchor we would need to reconstruct the heading first. But the heading format may be arbitrary and that's why we need the header_template config option.

The header_template is a string which may contain properties, surrounded by curly braces. These properties will be replaced with the values, when preprocessor will attempt to reconstruct the heading. All the rest will remain unchanged.

For example, if your API headings look like this:

<h2 id="method-user-info-get">Method user/info (GET)</h2>

You should use the following option:

```
1 ...
2 API:
3    Client-API:
4    header_template: 'Method {command} ({verb})'
5 ...
```

Don't forget the single quotes around the template. This way we say to yaml engine that this is a string.

If your headers do not have a verb at all:

```
<h2 id="user-info">user/info</h2>
```

You should use the following option:

```
1 ...
2 API:
3 Client-API:
4 header_template: '{command}'
5 ...
```

Properties you may use in the template:

property	description	example
verb command endpoint_prefix	HTTP verb used in the reference API command being referenced Endpoint prefix to the API (if endpoint-prefix option is filled in)	GET user/info /api/v0

Badges

pypi **v1.0.2**

Badges

Preprocessor for Foliant which helps to add badges to your documents. It uses Shields.io to generate badges.

Installation

```
$ pip install foliantcontrib.badges
```

Config

To enable the preprocessor, add badges to preprocessors section in the project config:

```
preprocessors:
- badges
```

The preprocessor has a number of options:

- server Shields server URL, which hosts badges. default: https://img.
 shields.io
- as_object If true preprocessor inserts svg badges with HTML <object>
 tag, instead of Markdown image tag. This is required for links and hints to work.
 default: true
- add_link If true preprocessor tries to determine the link which should be added
 to badge (for example, link to jira issue page for jira issue badge). Only works
 with as object = true. default: true

Please note that right now only links for **pypi** and **jira-issue** badges are being added automatically. Please contribute or contact author for adding other services.

vars Dictionary with variables which will be replaced in badge urls. See **variables** section.

Also you may add parameters specified on the shields.io website which alter the badge view like: label, logo, style etc.

Usage

Just add the badge tag and specify path to badge in the tag body:

<badge>jira/issue/https/issues.apache.org/jira/kafka-2896.
svg</badge>

All options from config may be overriden in tag parameters:

<badge style="social" as_object="false">jira/issue/https/
issues.apache.org/jira/kafka-2896.svg</badge>

Variables

You can use variables in your badges to replace parts which repeat often. For example, if we need to add many badges to our Jira tracker, we may put the protocol and host parameters into a variable like this:

To reference a variable in a badge path use syntax \${variable}:

BindSympli

BindSympli is a tool to download design layout images from Sympli CDN using certain Sympli account, to resize these images, and to bind them with the documentation project.

Installation

Before using BindSympli, you need to install Node.js, Puppeteer, wget, and ImageMagick

BindSympli preprocessor code is written in Python, but it uses the external script written in JavaScript. This script is provided in BindSympli package:

```
$ pip install foliantcontrib.bindsympli
```

Config

To enable the preprocessor, add bindsympli to preprocessors section in the project config:

```
preprocessors:
    - bindsympli
```

The preprocessor has a number of options with the following default values:

get_sympli_img_urls_path Path to the script get_sympli_img_urls.js
 or alternative command that launches it (e.g. node some_another_script
 .js). By default, it is assumed that you have this command and all other commands in PATH.

wget_path Path to wget binary.

convert path Path to convert binary, a part of ImageMagick.

cache_dir Directory to store downloaded and resized images.

sympli_login Your username in Sympli account.

sympli_password Your password in Sympli account.

image_width Width of resulting images in pixels (original images are too large).

max_attempts Maximum number of attempts to run the script
 get_sympli_img_urls.js on fails.

Usage

To insert a design layout image from Sympli into your documentation, use <<sympli > . . . </sympli> tags in Markdown source:

4 <<sympli caption="An optional caption" width="400" url="
https://app.sympli.io/app#!/designs/0123456789abcdef01234567
/specs/assets"></sympli>

You have to specify the URL of Sympli design layout page in url attribute.

You may specify an optional caption in the caption attribute, and an optional custom image width in the width attribute. The width attribute overrides the image_width config option for a certain image.

BindSympli preprocessor will replace such blocks with local image references.

Blockdiag

Blockdiag is a tool to generate diagrams from plain text. This preprocessor finds diagram definitions in the source and converts them into images on the fly during project build. It supports all Blockdiag flavors: blockdiag, seqdiag, actdiag, and nwdiag.

Installation

```
$ pip install foliantcontrib.blockdiag
```

Config

To enable the preprocessor, add blockdiag to preprocessors section in the project config:

```
preprocessors:
    - blockdiag
```

The preprocessor has a number of options:

```
actdiag_path: actdiag
nwdiag_path: nwdiag
params:
...
```

cache_dir Path to the directory with the generated diagrams. It can be a path relative to the project root or a global one; you can use ~/ shortcut.

Note

To save time during build, only new and modified diagrams are rendered. The generated images are cached and reused in future builds.

*_path Paths to the blockdiag, seqdiag, actdiag, and nwdiag binaries. By default, it is assumed that you have these commands in PATH, but if they're installed in a custom place, you can define it here.

params Params passed to the image generation commands (blockdiag, seqdiag, etc.). Params should be defined by their long names, with dashes replaced with underscores (e.g. --no-transparency becomes no_transparency); also, -T param is called format for readability:

```
preprocessors:
    - blockdiag:
    params:
    antialias: true
    font: !path Anonymous_pro.ttf
```

To see the full list of params, run blockdiag -h.

Usage

To insert a diagram definition in your Markdown source, enclose it between << blockdiag>...</blockdiag>, <<seqdiag>...</seqdiag>, <actdiag>...</nwdiag> tags (indentation inside tags is optional):

```
1 Here's a block diagram:
```

```
3 <<blookdiag>
   blockdiag {
    A -> B -> C -> D;
     A -> E -> F -> G;
    }
8 </blockdiag>
10 Here's a sequence diagram:
12 <<seqdiag>
   seqdiag {
      browser -> webserver [label = "GET /index.html"];
      browser <-- webserver;</pre>
      browser -> webserver [label = "POST /blog/comment"];
                   webserver -> database [label = "INSERT
 comment"];
                   webserver <-- database;</pre>
      browser <-- webserver;</pre>
    }
20
21 </seqdiag>
```

To set a caption, use caption option:

```
Diagram with a caption:

Second Second
```

You can override params values from the preprocessor config for each diagram:

1 By default, diagrams are in png. But this diagram is in svg:

```
2
3 <<bloomlength="blockdiag caption="High-quality diagram" format="svg">
4  blockdiag {
5    A -> B -> C -> D;
6    A -> E -> F -> G;
7  }
8 </blockdiag>
```

CSVTables

This preprocessor converts csv data to markdown tables.

Installation

```
$ pip install foliantcontrib.csvtables
```

Config

To enable the preprocessor with default options, add csvtables to preprocessors section in the project config:

```
preprocessors:
    - csvtables
```

The preprocessor has a number of options (default values stated below):

```
preprocessors:
covtables:
delimiter: ';'
padding_symbol: ' '
paddings_number: 1
```

delimiter Delimiter of csv data.

padding_symbol Symbol combination that will be places around datum (reversed on the right side).

paddings_number Symbol combination multiplier.

Usage

You can place csv data in csvtable tag.

```
1 <csvtable>
2    Header 1;Header 2;Header 3;Header 4;Header 5
3    Datum 1;Datum 2;Datum 3;Datum 4;Datum 5
4    Datum 6;Datum 7;Datum 8;Datum 9;Datum 10
5 </csvtable>
```

Or in external file.csv.

```
<csvtable src="table.csv"></csvtable>
```

You can reassign setting for certain csv tables.

```
1 <csvtable delimiter=":" padding_symbol=" *">
2     Header 1:Header 2:Header 3:Header 4:Header 5
3     Datum 1:Datum 2:Datum 3:Datum 4:Datum 5
4     Datum 6:Datum 7:Datum 8:Datum 9:Datum 10
5 </csvtable>
```

Example

Usage section will be converted to this:

You can place csv data in csvtable tag.

```
1 | Header 1 | Header 2 | Header 3 | Header 4 | Header 5 |
2 |-----|
3 | Datum 1 | Datum 2 | Datum 3 | Datum 4 | Datum 5 |
4 | Datum 6 | Datum 7 | Datum 8 | Datum 9 | Datum 10 |
```

Or in external file.csv.

```
1 | Header 1 | Header 2 | Header 3 | Header 4 | Header 5 |
2 |-----|
3 | Datum 1 | Datum 2 | Datum 3 | Datum 4 | Datum 5 |
4 | Datum 6 | Datum 7 | Datum 8 | Datum 9 | Datum 10 |
```

You can reassign setting for certain csv tables.

```
1 | *Header 1* | *Header 2* | *Header 3* | *Header 4* | *

Header 5* |
2 |-----|
3 | *Datum 1* | *Datum 2* | *Datum 3* | *Datum 4* | *Datum

5* |
4 | *Datum 6* | *Datum 7* | *Datum 8* | *Datum 9* | *Datum

10* |
```

CustomIDs

CustomIDs is a preprocessor that allows to define custom identifiers (IDs) for headings in Markdown source by using Pandoc-style syntax in projects built with MkDocs or another backend that provides HTML output. These IDs may be used in hyperlinks that refer to a specific part of a page.

Installation

```
$ pip install foliantcontrib.customids
```

Usage

To enable the preprocessor, add customids to preprocessors section in the project config:

```
preprocessors:
    - customids
```

The preprocessor supports the following options:

```
- customids:
stylesheet_path: !path customids.css
targets:
- pre
- mkdocs
- site
- ghp
```

stylesheet_path Path to the CSS stylesheet file. This stylesheet
should define rules for .custom_id_anchor_container, .
custom_id_anchor_container_level_N, .custom_id_anchor,
and .custom_id_anchor_level_N classes. Here N is the heading level
(1 to 6). Default path is customids.css. If stylesheet file does not exist,
default built-in stylesheet will be used.

targets Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

Custom ID may be specified after a heading content at the same line. Examples of Markdown syntax:

```
### First Heading {#custom_id_for_first_heading}

A paragraph.

#### Second Heading {#custom_id_for_second_heading}

Some another paragraph.
```

This Markdown source will be finally transformed into the HTML code:

```
1 <div class="custom_id_anchor_container
custom_id_anchor_container_level_1"><div id="
custom_id_for_first_heading" class="custom_id_anchor
custom_id_anchor_level_1"></div></div></div></div></div>
```

```
ch1>First Heading</h1>

A paragraph.

</pr>

custom_id_anchor_container
custom_id_anchor_container_level_2"><div id="
custom_id_for_second_heading" class="custom_id_anchor
custom_id_anchor_level_2"></div></div>

custom_id_anchor_level_2"></div></div>

ch2>Second Heading

ch2>Some another paragraph.
```

(Note that CustomIDs preprocessor does not convert Markdown syntax into HTML; it only inserts HTML tags <div class="custom_id_anchor_container">...</div> into Markdown code.)

Custom IDs must not contain spaces and non-ASCII characters.

Examples of hyperlinks that refer to custom IDs:

```
[Link to Heading 1](#custom_id_for_first_heading)

[Link to Heading 2 in some document at the current site](/
some/page/#custom_id_for_second_heading)

[Link to some heading with custom ID at an external site](
https://some.site/path/to/the/page/#some_custom_id)
```

Epsconvert

EPSConvert is a tool to convert EPS images into PNG format.

Installation

```
$ pip install foliantcontrib.epsconvert
```

Config

To enable the preprocessor, add epsconvert to preprocessors section in the project config:

```
preprocessors:
    - epsconvert
```

The preprocessor has a number of options:

```
preprocessors:
    - epsconvert:
    convert_path: convert
    cache_dir: !path .epsconvertcache
    image_width: 0
    targets:
    - pre
    - mkdocs
    - site
    - ghp
```

convert_path Path to convert binary. By default, it is assumed that you have this command in PATH. ImageMagick must be installed.

cache dir Directory to store processed images. They may be reused later.

image_width Width of PNG images in pixels. By default (in case when the value is 0), the width of each image is set by ImageMagick automatically. Default behavior is recommended. If the width is given explicitly, file size may increase.

targets Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

EscapeCode and UnescapeCode

EscapeCode and UnescapeCode preprocessors work in pair.

EscapeCode finds in the source Markdown content the parts that should not be modified by any next preprocessors. Examples of content that should be left raw: fence code blocks, pre code blocks, inline code.

EscapeCode replaces these raw content parts with pseudo-XML tags recognized by UnescapeCode preprocessor.

EscapeCode saves raw content parts into files. Later, UnescapeCode restores this content from files.

Also, before the replacement, EscapeCode normalizes the source Markdown content to unify and simplify further operations. The preprocessor replaces CRLF with LF, removes excessive whitespace characters, provides trailing newline, etc.

Installation

To install EscapeCode and UnescapeCode preprocessors, run:

\$ pip install foliantcontrib.includes

See more details below.

Integration with Foliant and Includes

You may call EscapeCode and UnescapeCode explicitly, but these preprocessors are integrated with Foliant core (since version 1.0.10) and with Includes preprocessor (since version 1.1.1).

The escape_code project's config option, if set to true, provides applying EscapeCode before all other preprocessors, and applying UnescapeCode after all other preprocessors. Also this option tells Includes preprocessor to apply EscapeCode to each included file.

In this mode EscapeCode and UnescapeCode preprocessors deprecate _unescape preprocessor.

- 1 > **Note**
- 2 >
- The preprocessor _unescape is a part of Foliant core. It allows to use pseudo-XML tags in code examples. If you want an opening tag not to be interpreted by any preprocessor, precede this tag with the `<` character. The preprocessor _unescape applies after all other preprocessors and removes such characters.

Config example:

If the escape_code option isn't used or set to false, backward compatibility mode is involved. In this mode EscapeCode and UnescapeCode aren't applied automatically, but _unescape preprocessor is applied.

In more complicated case, you may pass some custom options to EscapeCode preprocessor:

Custom options available in EscapeCode since version 1.0.2. Foliant core supports passing custom options to EscapeCode preprocessor as the value of escape_code. options parameter since version 1.0.11. Options are described below.

The Python package that includes EscapeCode and UnescapeCode preprocessors is the dependence of Includes preprocessor since version 1.1.1. At the same time this package isn't a dependence of Foliant core. To use <code>escape_code</code> config option in Foliant core, you have to install the package with EscapeCode and UnescapeCode preprocessors separately.

Explicit Enabling

You may not to use the escape_code option and call the preprocessors explicitly:

```
preprocessors:
    - escapecode  # usually the first list item
    ...
    - unescapecode  # usually the last list item
```

Both preprocessors allow to override the path to the directory that is used to store temporary files:

The default values are shown in this example. EscapeCode and related UnescapeCode must work with the same cache directory.

Note that if you use Includes preprocessor, and the included content doesn't belong to the current Foliant project, there's no way to escape raw parts of this content before Includes preprocessor is applied.

Config

Since version 1.0.2, EscapeCode preprocessor supports the option actions in additional to cache_dir.

The value of actions options should be a list of acceptable actions. By default, the following list is used:

```
- pre_blocks
- inline_code
```

This default list may be overridden. For example:

Meanings of parameters:

- normalize-perform normalization;
- escape—perform escaping of certain types of raw content:
 - fence_blocks-fence code blocks;
 - pre_blocks-pre code blocks;
 - inline_code-inline code;
 - comments—HTML-style comments, also usual for Markdown;
 - tags-content of certain tags with the tags themselves, for example
 plantuml for <<plantuml>...</plantuml>.

Usage

Below you can see an example of Markdown content with code blocks and inline code.

```
# Heading

Text that contains some `inline code`.

Below is a fence code block, language is optional:

'``python
```

```
import this
index import this
import
```

The preprocessor EscapeCode with default behavior will do the following replacements:

```
# Heading

Text that contains some <escaped hash="2
bb20aeb00314e915ecfefd86d26f46a"></escaped>.

Below is a fence code block, language is optional:

<escaped hash="15e1e46a75ef29eb760f392bb2df4ebb"></escaped>

One more fence code block:

<escaped hash="91c3d3da865e24c33c4b366760c99579"></escaped>

And this is a pre code block:
```

15 <escaped hash="a1e51c9ad3da841d393533f1522ab17e"></escaped>

Escaped content parts will be saved into files located in the cache directory. The names of the files correspond the values of the hash attributes. For example, that's the content of the file 15e1e46a75ef29eb760f392bb2df4ebb.md:

```
1 ```python
2 import this
3 ```
```

Flags

This preprocessors lets you exclude parts of the source based on flags defined in the project config and environment variables, as well as current target and backend.

Installation

```
$ pip install foliantcontrib.flags
```

Config

Enable the propressor by adding it to preprocessors:

```
preprocessors:
2 - flags
```

Enabled project flags are listed in preprocessors.flags.flags:

```
preprocessors:
    - flags:
        flags:
        - foo
        - bar
```

To set flags for the current session, define FOLIANT_FLAGS environment variable:

```
$ FOLIANT_FLAGS="spam, eggs"
```

You can use commas, semicolons, or spaces to separate flags.

Hint

To emulate a particular target or backend with a flag, use the special flags target: FLAG and backend: FLAG where FLAG is your target or backend:

```
$ FOLIANT_FLAGS="target:pdf, backend:pandoc, spam"
```

Usage

Conditional blocks are enclosed between <<iif>...</if> tags:

```
This paragraph is for everyone.

if flags="management">
This parapraph is for management only.

if if contains the contains and the contains a
```

A block can depend on multiple flags. You can pick whether all tags must be present for the block to appear, or any of them (by default, kind="all" is assumed):

```
1 <if flags="spam, eggs" kind="all">
2 This is included only if both `spam` and `eggs` are set.
3 </if>
4 
5 <if flags="spam, eggs" kind="any">
6 This is included if both `spam` or `eggs` is set.
7 </if>
```

You can also list flags that must *not* be set for the block to be included:

```
1 <if flags="spam, eggs" kind="none">
2 This is included only if neither `spam` nor `eggs` are set.
3 </if>
```

You can check against the current target and backend instead of manually defined flags:

```
1 <if targets="pdf">This is for pdf output</if><if targets="
    site">This is for the site</if>
2
3 <if backends="mkdocs">This is only for MkDocs.</if>
```

Flatten

This preprocessor converts a Foliant project source directory into a single Markdown file containing all the sources, preserving order and inheritance.

This preprocessor is used by backends that require a single Markdown file as input instead of a directory. The Pandoc backend is one such example.

Installation

```
$ pip install foliantcontrib.flatten
```

Config

This preprocessor is required by Pandoc backend, so if you use it, you don't need to install Flatten or enable it in the project config manually.

However, it's still a regular preprocessor, and you can run it manually by listing it in preprocessors:

```
preprocessors:
- flatten
```

The preprocessor has a number of options with the following default values:

flat_src_file_name Name of the flattened file that is created in the temporary working directory.

keep_sources Flag that tells the preprocessor to keep Markdown sources in the temporary working directory after flattening. If set to false, all Markdown files excepting the flattened will be deleted from the temporary working directory.

Note

Flatten preprocessor uses Includes, so when you install Pandoc backend, Includes preprocessor will also be installed, along with Flatten.

Glossary

Glossary preprocessor collects terms and definitions from the files stated and inserts them to specified places of the document.

Installation

```
$ pip install foliantcontrib.glossary
```

Config

To enable the preprocessor, add glossary to preprocessors section in the project config.

The preprocessor has a number of options (default values stated below):

```
preprocessors:
```

```
- glossary:
term_definitions: 'term_definitions.md'
definition_mark: ': '
files_to_process: ''
```

term_definitions Local or remote file with terms and definitions in Pandoc definition_lists notation (by default this file stored in foliant project folder, but you can place it other folder). Also you can use includes in this file to join several glossary files. In this case includes preprocessor should be stated before glossary in foliant.yml preprocessors section. Note that if several definitions of one term are found, only first will be used.

definition_mark Preprocessor uses this string to determine, if the definition should be inserted here. ": " for Pandoc definition lists notation.

files_to_process You can set certain files to process by preprocessor.

Usage

Just add the preprocessor to the project config, set it up and enjoy the automatically collected glossary in your document.

Example

foliant.yml

```
chapters:
chapters:
    - text.md

preprocessors:
    - includes
    - glossary

...
```

term_definitions.md

```
1 ### Glossary
```

glossary_1.md from repo_1

```
### Glossary

Term 1

Definition 1

Term 2

Definition 2

Term 3

Definition 3
```

glossary_2.md from repo_2

```
### Glossary

Term 4

Definition 4

some code, part of Definition 4 }

Third paragraph of definition 4.
```

```
10
11 Term 5
12
13 : Definition 5
```

text.md

```
### Main chapter

Some text.

### Glossary

Term 1

Term 4

Term 2
```

__all__.md

```
### Main chapter

Some text.

H## Glossary

Term 1

Definition 1

Term 4

Definition 4

Definition 4
```

Graphviz



Graphviz Diagrams Preprocessor for Foliant

Graphviz is an open source graph visualization tool. This preprocessor converts Graphviz diagram definitions in the source and converts them into images on the fly during project build.

Installation

```
$ pip install foliantcontrib.graphviz
```

Config

To enable the preprocessor, add graphviz to preprocessors section in the project config:

```
preprocessors:
- graphviz
```

The preprocessor has a number of options:

```
cache_dir: !path .diagramscache
graphviz_path: dot
engine: dot
format: png
as_image: true
params:
```

cache_dir Path to the directory with the generated diagrams. It can be a path relative to the project root or a global one; you can use ~/ shortcut.

To save time during build, only new and modified diagrams are rendered. The generated images are cached and reused in future builds.

- **graphviz_path** Path to Graphviz launcher. By default, it is assumed that you have the dot command in your PATH, but if Graphviz uses another command to launch, or if the dot launcher is installed in a custom place, you can define it here.
- engine Layout engine used to process the diagram source. Available engines: (
 circo, dot, fdp, neato, osage, patchwork, sfdp twopi). Default:
 dot
- **format** Output format of the diagram image. Available formats: tons of them. Default: png
- as_image If true inserts scheme into document as md-image. If false inserts the file generated by GraphViz directly into the document (may be handy
 for svg images). Default: true

params Params passed to the image generation command:

To see the full list of params, run the command that launches Graphviz, with -? command line option.

Usage

To insert a diagram definition in your Markdown source, enclose it between < graphviz>...</graphviz> tags:

```
'
Heres a diagram:

'
Graphviz>
a -> b
</graphviz>
```

You can set any parameters in the tag options. Tag options have priority over the config options so you can override some values for specific diagrams while having the default ones set up in the config.

Tags also have two exclusive options: caption option - the markdown caption of the diagram image and <math>src - path to diagram source (relative to current file).

If src tag option is supplied, tag body is ignored. Diagram source is loaded from external file.

Note that command params listed in the params option are stated in YAML format. Remember that YAML is sensitive to indentation so for several params it is more suitable to use JSON-like mappings: {key1: 1, key2: 'value2'}.

History

History is a preprocessor that generates single linear history of releases for multiple Git repositories based on their changelog files, tags, or commits. The history may be represented as Markdown, and as RSS feed.

Installation

```
$ pip install foliantcontrib.history
```

Config

To enable the preprocessor, add history to preprocessors section in the project config:

```
preprocessors:
    - history
```

The preprocessor has a number of options with the following default values:

```
1 - history:
     repos: []
     revision: master
     name from readme: false
     readme: README.md
     from: changelog
     merge_commits: true
     changelog: changelog.md
      source_heading_level: 1
     target heading level: 1
10
     target_heading_template: '[%date%] [%repo%](%link%) %
 version%'
     date_format: year_first
12
     limit: 0
13
     rss: false
     rss_file: rss.xml
```

```
rss_title: 'History of Releases'
rss_link: ''
rss_description: ''
rss_language: en-US
rss_item_title_template: '%repo% %version%'
```

repos List of URLs of Git repositories that it's necessary to generate history for. Example:

```
repos:
    - https://github.com/foliant-docs/foliant.git
    - https://github.com/foliant-docs/foliantcontrib.
includes.git
```

- **revision** Revision or branch name to use. Branches that are used for stable releases must have the same names in all listed repositories.
- name_from_readme Flag that tells the preprocessor to try to use the content of the first heading of README file in each listed repository as the repo name. If the flag set to false, or an attempt to get the first heading content is unsuccessful, the repo name will be based on the repo URL.
- **readme** Path to README file. README files must be located at the same paths in all listed repositories.
- **from** Data source to generate history: changelog—changelog file, tags—tags, commits—all commits. Data sources of the same type will be used for all listed repositories.
- **merge_commits** Flag that tells the preprocessor to include merge commits into history when from: commits is used.
- **changelog** Path to changelog file. Changelogs must be located at the same paths in all listed repositories.
- **source_heading_level** Level of headings that precede descriptions of releases in the source Markdown content. It must be the same for all listed repositories.
- **target_heading_level** Level of headings that precede descriptions of releases in the target Markdown content of generated history.

- target_heading_template Template for top-level headings in the target Markdown content. You may use any characters, and the variables: %date%—date, %repo%—repo name, %link%—repo URL, %version%—version data (content of source changelog heading, tag value, or commit hash).
- date_format Output date format to use in the target Markdown content. If the
 default value year_first is used, the date "September 4, 2019" will be represented as 2019-09-04. If the day_first value is used, this date will be
 represented as 04.09.2019.
- **limit** Maximum number of items to include into the target Markdown content; 0 means no limit.
- rss Flag that tells the preprocessor to export the history into RSS feed. Note that the parameters target_heading_level, target_heading_template, date_format, and limit are applied to Markdown content only, not to RSS feed content.
- rss_file Subpath to the file with RSS feed. It's relative to the temporary working directory during building, to the directory of built project after building, and to the rss_link value in URLs.
- rss_title RSS channel title.
- rss_link RSS channel link, e.g. https://foliant-docs.github.io/docs
 /. If the rss parameter value is rss.xml, the RSS feed URL will be https
 ://foliant-docs.github.io/docs/rss.xml.
- **rss_description** RSS channel description.
- rss language RSS channel language.
- rss_item_title_template Template for titles of RSS feed items. You may use
 any characters, and the variables: %repo%-repo name, %version%-version
 data.

Usage

To insert some history into Markdown content, use the <history></history> tags:

```
Some optional content here.

2
3 <history></history>
4
5 More optional content.
```

If no attributes specified, the values of options from the project config will be used.

You may override each config option value with the attribute of the same name. Example:

```
1 <history
2    repos="https://github.com/foliant-docs/foliantcontrib.
mkdocs.git"
3    revision="develop"
4    limit="5"
5    rss="true"
6    rss_file="some_another.xml"
7    ...
8 >
9 </history>
```

ImageMagick

This tool provides additional processing of images that referred in Markdown source, with ImageMagick.

Installation

```
$ pip install foliantcontrib.imagemagick
```

Config

To enable the preprocessor, add imagemagick to preprocessors section in the project config:

The preprocessor has a number of options with the following default values:

convert_path Path to convert binary, a part of ImageMagick.
cache_dir Directory to store processed images. These files can be reused later.

Usage

Suppose you want to apply the following command to your picture image.eps:

```
$ convert image.eps -resize 600 -background Orange label:'
Picture' +swap -gravity Center -append image.jpg
```

This command takes the source EPS image image.eps, resizes it, puts a text label over the picture, and writes the result into new file image.jpg. The suffix of output file name specifies that the image must be converted into JPEG format.

To use the ImageMagick preprocessor to do the same, enclose one or more image references in your Markdown source between <magick> and </magick> tags.

```
1 <magick command_params="-resize 600 -background Orange label
:'Picture' +swap -gravity Center -append" output_format="jpg
">
2 (leading exclamation mark here)[Optional Caption](image.eps)
3 </magick>
```

Use output_format attribute to specify the suffix of output file name. The whole output file name will be generated automatically.

Use command_params attribute to specify the string of parameters that should be passed to ImageMagick convert binary.

Instead of using command_params attribute, you may specify each parameter as its own attribute with the same name:

```
1 <magick resize="600" background="Orange label:'Picture' +
swap" gravity="Center" append="true" output_format="jpg">
2 (leading exclamation mark here)[Optional Caption](image.eps)
3 </magick>
```

ImgCaptions

ImgCaptions is a preprocessor that generates visible captions for the images from alternative text descriptions of the images. The preprocessor is useful in projects built with MkDocs or another backend that provides HTML output.

Installation

```
$ pip install foliantcontrib.imgcaptions
```

Usage

To enable the preprocessor, add imgcaptions to preprocessors section in the project config:

```
preprocessors:
    - imgcaptions
```

The preprocessor supports the following options:

```
- imgcaptions:

stylesheet_path: !path imgcaptions.css

template: {caption}
targets:

- pre
- mkdocs
- site
```

- ghp

- stylesheet_path Path to the CSS stylesheet file. This stylesheet should define
 rules for the .image_caption class. Default path is imgcaptions.css.
 If stylesheet file does not exist, default built-in stylesheet will be used.
- template Template string representing the HTML tag of the caption to be placed
 after the image. The template should contain the {caption} variable that will
 be replaced with the image caption. Default: {caption}.
- **targets** Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

Image definition example:

```
(leading exclamation mark here)[My Picture](picture.png)
```

This Markdown source will be finally transformed into the HTML code:

```
1 <img alt="My Picture" src="picture.png">
2 My Picture
```

(Note that ImgCaptions preprocessor does not convert Markdown syntax into HTML; it only inserts HTML tags like class="image_caption">My Picture
into Markdown code after the image definitions. Empty alternative text descriptions are ignored.)

ImgConvert

ImgConvert is a tool to convert images from an arbitrary format into PNG.

Installation

\$ pip install foliantcontrib.imgconvert

Config

To enable the preprocessor, add imgconvert to preprocessors section in the project config:

```
preprocessors:
    - imgconvert
```

The preprocessor has a number of options with the following default values:

convert_path Path to convert binary. By default, it is assumed that you have this command in PATH. ImageMagick must be installed.

cache dir Directory to store processed images. They may be reused later.

image_width Width of PNG images in pixels. By default (in case when the value is 0), the width of each image is set by ImageMagick automatically. Default behavior is recommended. If the width is given explicitly, file size may increase.

formats Settings that apply to each format of source images.

The formats option may be used to define lists of targets for each format. If targets for a format are not specified explicitly, the preprocessor will be applied to all targets. Example:

```
formats:
    eps:
    targets:
        svg:
        targets:
```

- docx

Formats should be named in lowercase.

Includes

Includes preprocessor lets you reuse parts of other documents in your Foliant project sources. It can include from files on your local machine and remote Git repositories. You can include entire documents as well as parts between particular headings, removing or normalizing included headings on the way.

Installation

```
$ pip install foliantcontrib.includes
```

Config

To enable the preprocessor with default options, add includes to preprocessors section in the project config:

```
preprocessors:
    - includes
```

The preprocessor has a number of options:

cache_dir Path to the directory for cloned Git repositories. It can be a path relative to the project path or a global one; you can use ~/ shortcut.

Note

To include files from remote repositories, the preprocessor clones them. To save time during build, cloned repositories are stored and reused in future builds.

recursive Flag that defines whether includes in included documents should be processed.

aliases Mapping from aliases to Git repository URLs. Once defined here, an alias can be used to refer to the repository instead of its full URL.

Note

Aliases are available only within the legacy syntax of include statements (see below).

For example, if you set this alias in the config:

```
1 - includes:
2    aliases:
3         foo: https://github.com/boo/bar.git
4         baz: https://github.com/foo/far.git#develop
```

you can include the content of doc.md files from these repositories using the following syntax:

```
1 <include>$foo$path/to/doc.md</include>
2
3 <include>$baz#master$path/to/doc.md</include>
```

Note that in the second example the default revision (develop) will be overridden with the custom one (master).

Usage

The preprocessor allows two syntax variants for include statements.

The **legacy** syntax is simpler and shorter but less flexible. There are no plans to extend it.

The **new** syntax introduced in version 1.1.0 is stricter and more flexible. It is more suitable for complex cases, and it can be easily extended in the future. This is the preferred syntax.

Both variants of syntax use the <include>...</include> tags.

If the included file is specified between the tags, it's the legacy syntax. If the file is referenced in the tag attributes (src, repo_url, path), it's the new one.

The New Syntax

To enforce using the new syntax rules, put no content between <include>...</i>include> tags, and specify a local file or a file in a remote Git repository in tag attributes.

To include a local file, use the src attribute:

```
1 Text below is taken from another document.
2
3 <include src="path/to/another/document.md"></include>
```

To include a file from a remote Git repository, use the repo_url and path attributes:

```
1 Text below is taken from a remote repository.
2
3 <include repo_url="https://github.com/foo/bar.git" path=" path/to/doc.md"></include>
```

You have to specify the full remote repository URL in the repo_url attribute, aliases are not supported here.

Optional branch or revision can be specified in the revision attribute:

```
Text below is taken from a remote repository on branch
develop.

include repo_url="https://github.com/foo/bar.git" revision
="develop" path="path/to/doc.md"></include>
```

Attributes

src Path to the local file to include.

repo_url Full remote Git repository URL without a revision.

path Path to the file inside the remote Git repository.

Note

If you are using the new syntax, the src attribute is required to include a local file, and the repo_url and path attributes are required to include a file from a remote Git repository. All other attributes are optional.

Note

Foliant 1.0.9 supports the processing of attribute values as YAML. You can precede the values of attributes by the !path, !project_path, and !rel_path modifiers (i.e. YAML tags). These modifiers can be useful in the src, path, and project_root attributes.

revision Revision of the Git repository.

- **from_heading** Full content of the starting heading when it's necessary to include some part of the referenced file content.
- **to_heading** Full content of the ending heading when it's necessary to include some part of the referenced file content.
- from_id ID of the starting heading or starting anchor when it's necessary to include
 some part of the referenced file content. The from_id attribute has higher
 priority than from_heading.
- to_id ID of the ending heading or ending anchor when it's necessary to include some part of the referenced file content. The to_id attribute has higher priority than to_heading.
- **to_end** Flag that tells the preprocessor to cut to the end of the included content. Otherwise, if from_heading or from_id is specified, the preprocessor cuts the included content to the next heading of the same level as the starting heading, or the heading that precedes the starting anchor.

Example:

```
## Some Heading {#custom_id}

canchor>one_more_custom_id
```

Here Some Heading {#custom_id} is the full content of the heading, custom_id is its ID, and one_more_custom_id is the ID of the anchor.

Optional Attributes Supported in Both Syntax Variants

sethead The level of the topmost heading in the included content. Use it to guarantee that the included text does not break the parent document's heading order:

```
# Title

# Subtitle

s <include src="other.md" sethead="3"></include>
```

nohead Flag that tells the preprocessor to strip the starting heading from the included content:

```
# My Custom Heading

it is a sinclude src="other.md" from_heading="Original Heading"
    nohead="true"></include>
```

Default is false.

By default, the starting heading is included to the output, and the ending heading is not. Starting and ending anchors are never included into the output.

inline Flag that tells the preprocessor to replace sequences of whitespace characters of many kinds (including \r, \n, and \t) with single spaces () in the included content, and then to strip leading and trailing spaces. It may be useful in single-line table cells. Default value is false.

project_root Path to the top-level ("root") directory of Foliant project that the included file belongs to. This option may be needed to resolve the !path and !project_path modifiers in the included content properly.

Note

By default, if a local file is included, project_root points to the top-level directory of the current Foliant project, and if a file in a remote Git repository is referenced, project_root points to the top-level directory of this repository. In most cases you don't need to override the default behavior.

Different options can be combined. For example, use both sethead and nohead if you want to include a section with a custom heading:

```
### My Custom Heading

include src="other.md" from_heading="Original Heading"
sethead="1" nohead="true"></include>
```

The Legacy Syntax

This syntax was the only supported in the preprocessor up to version 1.0.11. It's weird and cryptic, you had to memorize strange rules about \$, # and stuff. The new syntax described above is much cleaner.

The legacy syntax is kept for backward compatibility. To use it, put the reference to the included file between <include>...</include> tags.

Local path example:

```
1 Text below is taken from another document.
2
3 <include>path/to/another/document.md</include>
```

The path may be either relative to currently processed Markdown file or absolute.

To include a document from a remote Git repository, put its URL between \$s before the document path:

```
1 Text below is taken from a remote repository.
```

If the repository alias is defined in the project config, you can use it instead of the URL:

```
1 - includes:
2    aliases:
3    foo: https://github.com/foo/bar.git
```

And then in the source:

```
<include>$foo$path/to/doc.md</include>
```

You can also specify a particular branch or revision:

```
1 Text below is taken from a remote repository on branch
develop.
2
3 <include>$foo#develop$path/to/doc.md</include>
```

To include a part of a document between two headings, use the #Start:Finish syntax after the file path:

```
Include content from ""Intro up to ""Credits:

cinclude>sample.md#Intro:Credits</include>

Include content from start up to ""Credits:

cinclude>sample.md#:Credits</include>

Include content from "Intro up to the next heading of the same level:
```

```
10
11 <include>sample.md#Intro</include>
```

In the legacy syntax, problems may occur with the use of \$, #, and : characters in filenames and headings, since these characters may be interpreted as delimeters.

Macros

Macro is a string with placeholders that is replaced with predefined content during documentation build. Macros are defined in the config.

Installation

```
$ pip install foliantcontrib.macros
```

Config

Enable the preprocessor by adding it to preprocessors and listing your macros in macros dictionary:

Usage

Here's the simplest usecase for macros:

Now, every time you need to insert your support phone number, you put a macro instead:

```
Call you support team: <macro>support_number</macro>.

Here's the number again: <m>support_number</m>.
```

Macros are useful in documentation that should be built into multiple targets, e.g. site and pdf, when the same thing is done differently in one target than in the other.

For example, to reference a page in MkDocs, you just put the Markdown file in the link:

```
Here is [another page](another_page.md).
```

But when building documents with Pandoc all sources are flattened into a single Markdown, so you refer to different parts of the document by anchor links:

```
Here is [another page](#another_page).
```

This can be implemented using <if></if> tag:

```
Here is [another page](<if backends="pandoc">#another_page</
if><if backends="mkdocs">another_page.md</if>).
```

This bulky construct quickly gets old when you use many cross-references in your documentation.

To make your sources cleaner, move this construct to the config as a reusable macro:

And use it in the source:

Here is [another page](<macro params="#another_page,
another_page.md">ref</macro>).

Mermaid

pypi v1.0.1

Mermaid Diagrams Preprocessor for Foliant

Mermaid is an open source diagram visualization tool. This preprocessor converts Mermaid diagram definitions in your Markdown files into images on the fly during project build.

Installation

\$ pip install foliantcontrib.mermaid

Please note that to use this preprocessor you will also need to install Mermaid and Mermaid CLI:

- 1 \$ npm install mermaid # installs locally
- 2 \$ npm install mermaid.cli

Config

To enable the preprocessor, add mermaid to preprocessors section in the project config:

The preprocessor has a number of options:

```
preprocessors:
    - mermaid:
```

```
cache_dir: !path .diagramscache
mermaid_path: !path node_modules/.bin/mmdc
format: svg
params:
...
```

cache_dir Path to the directory with the generated diagrams. It can be a path relative to the project root or a global one; you can use ~/ shortcut.

To save time during build, only new and modified diagrams are rendered. The generated images are cached and reused in future builds.

mermaid_path Path to Mermaid CLI binary. If you installed Mermaid locally this parameter is required. Default: mmdc.

format Generated image format. Available: svg, png, pdf. Default svg.

params Params passed to the image generation command:

```
preprocessors:
    - mermaid:
         params:
          theme: forest
```

To see the full list of available params, run mmdc -h or check here.

Usage

To insert a diagram definition in your Markdown source, enclose it between < mermaid>...</mermaid> tags:

```
1 '
2 Heres a diagram:
3
4 <mermaid>
5 graph TD;
6     A-->B;
7 </mermaid>
```

You can set any parameters in the tag options. Tag options have priority over the config options so you can override some values for specific diagrams while having the default ones set up in the config.

Tags also have an exclusive option caption — the markdown caption of the diagram image.

```
Diagram with a caption:

// Compared the series of th
```

Note that command params listed in the params option are stated in YAML format. Remember that YAML is sensitive to indentation so for several params it is more suitable to use JSON-like mappings: {key1: 1, key2: 'value2'}.

MultilineTables

This preprocessor converts tables to multiline and grid format before creating document (very useful especially for pandoc processing). It helps to make tables in doc and pdf formats more proportional — column with more text in it will be more wide. Also it helps whith processing of extremely wide tables with pandoc. Convertation to the grid format allows arbitrary cell' content (multiple paragraphs, code blocks, lists, etc.).

Installation

```
$ pip install foliantcontrib.multilinetables
```

Config

To enable the preprocessor with default options, add multilinetables to preprocessors section in the project config:

preprocessors:

2 - multilinetables

The preprocessor has a number of options (best values set by default):

rewrite_src_file You can update source files after each use of preprocessor. Be careful, previous data will be deleted.

min_table_width Wide markdown tables will be shrinked to this width in symbols. This parameter affects scaling - change it if table columns are merging.

keep_narrow_tables If true narrow tables will not be stretched to minimum table width.

table_columns_to_scale Minimum amount of columns to process the table.

enable_hyphenation Switch breaking text in table cells with the tag set in hyph combination. Good for lists, paragraphs, etc.

hyph_combination Custom tag to break a text in multiline tables.

convert_to_grid If true tables will be converted to the grid format, that allows
 arbitrary cell' content (multiple paragraphs, code blocks, lists, etc.).

targets Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

Usage

Just add preprocessor to the project config and enjoy the result.

Pgsqldoc

This preprocessor generates simple documentation of a PostgreSQL database based on its structure. It uses Jinja2 templating engine for customizing the layout and PlantUML for drawing the database scheme.

Installation

```
$ pip install foliantcontrib.pgsqldoc
```

Config

To enable the preprocessor, add pgsqldoc to preprocessors section in the project config:

The preprocessor has a number of options:

host PostgreSQL database host address. Default: localhost

port PostgreSQL database port. Default: 5432

dbname PostgreSQL database name. Default: postgres

```
user PostgreSQL user name. Default: postgres
passwrod PostgreSQL user password.
```

draw If this parameter is true - preprocessor would generate scheme of the
 database and add it to the end of the document. Default: false

filters SQL-like operators for filtering the results. More info in the **Filters** section. **doc_template** Path to jinja-template for documentation. Path is relative to the project directory. Default: pgsqldoc.j2

scheme_template Path to jinja-template for scheme. Path is relative to the project directory. Default: scheme.j2

Usage

Add a <pgsqldoc></pgsqldoc> tag at the position in the document where the generated documentation of a PostgreSQL database should be inserted:

```
### Introduction

This document contains the most awesome automatically generated documentation of our marvellous database.

**This documentation of our marvellous database.
```

Each time the preprocessor encounters the tag <pgsqldoc></pgsqldoc> it inserts the whole generated documentation text instead of it. The connection parameters are taken from the config-file.

You can also specify some parameters (or all of them) in the tag options:

```
### Introduction

Introduction text for database documentation.

yellow t
```

```
password="tiger">
11 </pgsqldoc>
```

Tag parameters have the highest priority.

This way you can have documentation for several different databases in one foliant project (even in one md-file if you like it so).

Filters

You can add filters to exclude some tables from the documentation. Pgsqldocs supports several SQL-like filtering operators and a determined list of filtering fields.

You can switch on filters either in foliant.yml file like this:

```
preprocessors:
    pgsqldoc:
    filters:
        eq:
        schema: public
    regex:
        table_name: 'main_.+'
```

or in tag options using the same yaml-syntax:

```
1
2 <pgsqldoc filters="
3 eq:
4     schema: public
5    regex:
6     table_name: 'main_.+'">
7 </pgsqldoc>
```

List of currently supported operators:

operator	SQL equivalent	description	value
eq	=	equals	literal
not_eq	! =	does not equal	literal
in	IN	contains	list

operator	SQL equivalent	description	value
not_in regex	NOT IN	does not contain matches regular expression	list literal
not_regex	!~	does not match regular expression	literal

List of currently supported filtering fields:

field	description
schema	filter by PostgreSQL database schema
table_name	filter by database table names

The syntax for using filters in configuration files is following:

If value should be list like for in operator, use YAML-lists instead:

```
1 filters:
2  in:
3    schema:
4    - public
5    - corp
```

About Templates

The structure of generated documentation is defined by jinja-templates. You can choose what elements will appear in the documentation, change their positions, add constant text, change layouts and more. Check the Jinja documentation for info on all cool things you can do with templates.

If you don't specify path to templates in the config-file and tag-options pgsqldoc will use default paths:

- <Project_path>/pgsqldoc.j2 for documentation template;
- <Project_path>/scheme.j2 for database scheme source template.

If pgsqldoc can't find these templates in the project dir it will generate default templates and put them there.

So if you accidentally mess things up while experimenting with templates you can always delete your templates and run preprocessor — the default ones will appear in the project dir. (But only if the templates are not specified in config-file or their names are the same as defaults).

One more useful thing about default templates is that you can find a detailed description of the source data they get from pgsqldoc in the beginning of the template.

Plantuml

PlantUML is a tool to generate diagrams from plain text. This preprocessor finds PlantUML diagrams definitions in the source and converts them into images on the fly during project build.

Installation

```
$ pip install foliantcontrib.plantuml
```

Config

To enable the preprocessor, add plantuml to preprocessors section in the project config:

The preprocessor has a number of options:

parse_raw: true

cache_dir Path to the directory with the generated diagrams. It can be a path relative to the project root or a global one; you can use ~/ shortcut.

Note

To save time during build, only new and modified diagrams are rendered. The generated images are cached and reused in future builds.

plantuml_path Path to PlantUML launcher. By default, it is assumed that you have the command plantuml in your PATH, but if PlantUML uses another command to launch, or if the plantuml launcher is installed in a custom place, you can define it here.

params Params passed to the image generation command:

To see the full list of params, run the command that launches PlantUML, with -h command line option.

parse_raw If this flag is true, the preprocessor will also process all PlantUML diagrams which are not wrapped in <plantuml>...</plantuml> tags. Default value is false.

Usage

To insert a diagram definition in your Markdown source, enclose it between < plantuml>...</plantuml> tags (indentation inside tags is optional):

```
1 '
2 Heres a diagram:
3
4 <plantuml>
5     @startuml
```

To set a caption, use caption option:

You can override params values from the preprocessor config for each diagram. Also you can use format alias for -t* params:

Sometimes it can be necessary to process auto-generated documents that contain multiple PlantUML diagrams definitions without using Foliant-specific tags syntax. Use the parse_raw option in these cases.

RAMLDoc

pypi **v1.0.1**

RAML API Docs Generator for Foliant

This preprocessor generates Markdown documentation from RAML spec files. It uses raml2html converter with raml2html-full-markdown-theme.

raml2html uses Nunjucks templating system.

Installation

First install raml2html and the markdown theme:

```
$ npm install -g raml2html raml2html-full-markdown-theme
```

Then install the preprocessor:

```
$ pip install foliantcontrib.ramldoc
```

Config

To enable the preprocessor, add ramldoc to preprocessors section in the project config:

```
preprocessors:
- ramldoc
```

The preprocessor has a number of options:

spec_url URL to RAML spec file. If it is a list — preprocessor picks the first working URL.

spec_path Local path to RAML spec file.

If both URL and path are specified — preprocessor first tries to fetch spec from URL, and then (if that fails) looks for the file on local path.

template_dir Path to directory with Nunjucks templates. If not specified — default template is used. The main template in the directory must have a name root. nunjucks.

raml2html_path Path to raml2html binary. Default: raml2html

Usage

Add a <ramldoc></ramldoc> tag at the position in the document where the generated documentation should be inserted:

```
### Introduction

This document contains the automatically generated documentation of our API.

**Tamldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ramldoc></ram
```

Each time the preprocessor encounters the tag <ramldoc></ramldoc> it inserts the whole generated documentation text instead of it. The path or url to RAML spec file are taken from foliant.yml.

You can also specify some parameters (or all of them) in the tag options:

```
### Introduction

Introduction text for API documentation.

Introdu
```

Tag parameters have the highest priority.

This way you can have documentation from several different RAML spec files in one Foliant project (even in one md-file if you like it so).

Customizing output

The output markdown is generated by raml2html converter, which uses Nunjucks templating engine (with syntax similar to Jinja2. If you want to create your own template or modify the default one, specify the template_dir parameter.

The main template file in template dir must be named root.nunjucks.

You may use the default template as your starting point.

Replace

Replace preprocessor reads the dictionary (yaml format) placed in foliant project folder and changes one word to another in created document.

Installation

```
$ pip install foliantcontrib.replace
```

Config

To enable the preprocessor, add replace to preprocessors section in the project config:

```
preprocessors:
    - replace
```

The preprocessor has two options (default values stated):

```
preprocessors:
    replace:
    dictionary_filename: replace_dictionary.yml
    with_confirmation: false
```

dictionary_filename File in foliant project folder with dictionary in it (*replace_dictionary.yml* by default).

with_confirmation if true you will be prompted to confirm any changes.

Dictionary format

Dictionary stores data in yaml format. It has two sections — with words and with regular expressions. You can pass the lambda function in regexs section. For example:

```
words:
cod: CoD
epg: EPG
vod: VoD
regexs:
'!\w*!': ''
'\. *(\w)': 'lambda x: x.group(0).upper()'
```

Usage

Just add the preprocessor to the project config, set the dictionary and enjoy the result.

RepoLink

This preprocessor allows to add into each Markdown source a hyperlink to the related file in Git repository. Applying of the preprocessor to subprojects allows to get links to separate repositories from different pages of a single site (e.g. generated with MkDocs).

By default, the preprocessor emulates MkDocs behavior. The preprocessor generates HTML hyperlink with specific attributes and inserts the link after the first heading of the document. The default behavior may be overridden.

The preprocessor supports the same options repo_url and edit_uri as MkDocs.

Installation

RepoLink preprocessor is a part of MultiProject extension:

```
$ pip install foliantcontrib.multiproject
```

Usage

To enable the preprocessor, add repolink to preprocessors section in the project config:

```
preprocessors:
    - repolink
```

The preprocessor has a number of options:

- **repo_url** URL of the related repository. Default value is an empty string; in this case the preprocessor does not apply. Trailing slashes do not affect.
- edit_uri Revision-dependent part of URL of each file in the repository. Default
 value is /blob/master/src/. Leading and trailing slashes do not affect.
- link_type Link type: HTML (html) or Markdown (markdown). Default value is html.
- link_location Place in the document to put the hyperlink. By default, the hyperlink is placed after the first heading, and newlines are added before and after it (
 after_first_heading). Other values: before_content—the hyperlink
 is placed before the content of the document, the newline after it is provided;
 after_content—the hyperlink is placed after the content of the document,
 the newline before it is added; defined_by_tag—the tags <repo_link</pre>

></repo_link> that are met in the content of the document are replaced with the hyperlink.

link_text Hyperlink text. Default value is Edit this page.

- link_title Hyperlink title (the value of title HTML attribute). Default value is also Edit this page. This option takes effect only when link_type is set to html.
- **link_html_attributes** Additional HTML attributes for the hyperlink. By using CSS in combination with class attribute, and/or style attribute, you may customize the presentation of your hyperlinks. Default value is an empty string. This option takes effect only when link_type is set to html.
- **targets** Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

You may override the value of the edit_uri config option with the FOLIANT_REPOLINK_EDIT_URI system environment variable. It can be useful in some non-stable testing or staging environments.

RunCommands

RunCommands is a preprocessor that allows to execute a sequence of arbitrary external commands.

Installation

```
$ pip install foliantcontrib.runcommands
```

Usage

To enable the preprocessor, add runcommands to preprocessors section in the project config, and specify the commands to run:

```
- pre
- tex
- pdf
- docx
```

commands Sequence of system commands to execute one after the other.

targets Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

Supported environment variables

You may use the following environment variables in your commands:

- \${PROJECT_DIR} full path to the project directory, e.g. /usr/src/app;
- \${SRC_DIR} full path to the directory that contains Markdown sources, e.g. / usr/src/app/src;
- \${WORKING_DIR} full path to the temporary directory that is used by preprocessors, e.g. /usr/src/app/_folianttmp__;
- \${BACKEND} currently used backend, e.g. pre, pandoc, or mkdocs;
- \${TARGET} current target, e.g. site, or pdf.

ShowCommits

ShowCommits is a preprocessor that appends the history of Git commits corresponding to the current processed file to its content.

Installation

```
$ pip install foliantcontrib.showcommits
```

Config

To enable the preprocessor, add showcommits to preprocessors section in the project config:

The preprocessor has a number of options with the following default values:

```
preprocessors:
      - showcommits:
          repo_path: !rel_path ./
                                     # Path object that points
  to the current Foliant 'projects top-level "("root)
 directory when the preprocessor initializes
          remote_name: origin
          self-hosted: gitlab
          protocol: https
          position: after_content
          date_format: year_first
          template: |
              ## File History
10
11
              {{startcommits}}
12
              Commit: [{{hash}}]({{url}}), author: [{{author}
13
 }}]({{email}}), date: {{date}}
14
              {{message}}
15
16
              ```diff
 {{diff}}
18
19
 {{endcommits}}
20
 targets: []
21
```

- **repo\_path** Path to the locally cloned copy of the Git repository that the current Foliant project's files belong to.
- **remote\_name** Identifier of remote repository; in most cases you don't need to override the default value.
- self-hosted String that defines the rules of commit's web URL anchor generation when a self-hosted Git repositories management system with web interface is used. Supported values are: github for GitHub, gitlab for GitLab, and bitbucket for BitBucket. If the repo fetch URL hostname is github.com , gitlab.com, or bitbucket.org, the corresponding rules are applied automatically.

- **protocol** Web interface URL prefix of a repos management system. Supported values are https and http.
- position String that defines where the history of commits should be placed. Supported values are: after\_content for concatenating the history with the currently processed Markdown file content, and defined\_by\_tag for replacing the tags <commits></commits> with the history.
- date\_format Output date format. If the default value year\_first is used,
   the date "December 11, 2019" will be represented as 2019-12-11. If the
   day\_first value is used, this date will be represented as 11.12.2019.
- **template** Template to render the history of commits. If the value is a string that contains one or more newlines (\n) or double opening curly braces (\{\}), it is interpreted as a template itself. If the value is a string without newlines and any double opening curly braces, or a Path object, it is interpreted as a path to the file that contains a template. Template syntax is described below.
- **targets** Allowed targets for the preprocessor. If not specified (by default), the preprocessor applies to all targets.

### Usage

You may override the default template to customize the commits history formatting and rendering. Feel free to use Markdown syntax, HTML, CSS, and JavaScript in your custom templates.

In templates, a number of placeholders is supported.

- **{{startcommits}}** Beginning of the list of commits that is rendered within a loop. Before this placeholder, you may use some common stuff like an introducing heading or a stylesheet.
- **{{endcommits}}** End of the list of commits. After this placeholder, you also may use some common stuff like a paragraph of text or a script.

The following placeholders affect only between the {{startcommits}} and {{ endcommits}}.

- **{{hash}}** First 8 digits of the commit hash, e.g. deadc0de.
- **{{url}}** Web URL of commit with an anchor that points to the certain file, e.g. https://github.com/foliant-docs/foliant/commit/67138 f7c#diff-478b1f78b2146021bce46fbf833eb636. If you don't use a repos management system with web interface, you don't need this placeholder.

```
{{author}} Author name, e.g. Artemy Lomov.
{{email}} Author email, e.g. artemy@lomov.ru.
{{date}} Formatted date, e.g. 2019-12-11.
{{message}} Commit message, e.g. Bump version to 1.0.1..
{{diff}} Diff between the currently processed Markdown file at a certain commit and the same file at the previous state.
```

# SuperLinks

pypi v1.0.0

# SuperLinks for Foliant

This preprocessor extends the functionality of Markdown links, allowing you to reference by the heading title, file name or meta id. It works correctly with most backends, resolving to proper links, depending on which backend is being used.

It adds the k> tag.

#### The Problem

The problem with Markdown links is that you have to specify the correct anchor and file path right away.

Let's imagine that you want to create a link to a heading which is defined in another chapter.

If you are building a single-page PDF with Pandoc, you will only need to specify the anchor, which Pandoc generates from that title. But if you are building an MkDocs website, you will need to specify the relative filename to the referenced chapter, and the anchor, which MkDocs generates from the titles. By the way, Pandoc and MkDocs generate anchors differently. So there's no way to make it work for all backends by using just Markdown link syntax.

Superlinks aim to solve this problem.

### Installation

Install the preprocessor:

### \$ pip install foliantcontrib.superlinks

## Config

To enable the preprocessor, add superlink to preprocessors section in the project config.

### preprocessors:

2 - superlinks

The preprocessor has no config options just now. But it has some important tag options.

### Usage

To add a link, use a link tag with a combination of following parameters:

title Heading title, which you want to create a link to.

**src** Relative path to a chapter which is being referenced.

meta\_id ID of the meta section which is being referenced. (if title is used, then
 this title MUST be inside this meta section)

anchor Just a hardoded anchor. No magic here.

### **Examples**

Reference a title in the same document

```
<link title="My title">Link caption</link>
```

Reference a title in another chapter

```
<link src="subfolder/another_chapter.md" title="Another
title">Link caption</link>
```

Reference the beginning of another chapter

<link src="subfolder/another\_chapter.md">Link caption</link>

#### Reference a title inside meta section

<link meta\_id="SECTION1" title="Title in section1">Link
caption</link>

### Reference the beginning of meta section

<link meta\_id="SECTION1">Link caption</link>

## Supported Backends:

Backend	Support
aglio	☐ YES
pandoc	☐ YES
mdtopdf	☐ YES
mkdocs	☐ YES
slate	☐ YES
confluence	□NO

# SwaggerDoc

pypi v1.2.1

# Swagger API Docs Generator for Foliant

This preprocessor generates Markdown documentation from Swagger spec files . It uses Jinja2 templating engine or widdershins for generating Markdown from swagger spec files.

### Installation

\$ pip install foliantcontrib.swaggerdoc

## Config

To enable the preprocessor, add pgsqldoc to preprocessors section in the project config:

```
preprocessors:
 - swaggerdoc
```

The preprocessor has a number of options:

**json\_url** URL to Swagger spec file. If it is a list — preprocessor takes the first url which works.

even though the parameters are called *json\_url* and *json\_path*, yaml format is supported too. Parameters may be softly renamed in future.

**json\_path** Local path to Swagger spec file (relative to project dir).

If both url and path are specified — preprocessor first tries to fetch JSON from url, and then (if that fails) looks for the file on local path.

**additional\_json\_path** Only for jinja mode. Local path to swagger spec file with additional info (relative to project dir). It will be merged into original spec file, *not overriding existing fields*.

**mode** Determines how the Swagger spec file would be converted to markdown. Should be one of: jinja, widdershins. Default: widdershins

jinja mode is deprecated. It may be removed in future

**template** Only for jinja mode. Path to jinja-template for rendering the generated documentation. Path is relative to the project directory. If no template is specified preprocessor will use default template (and put it into project dir if it was missing). Default: swagger.j2

**environment** Only for widdershins mode. Parameters for widdershins converter. You can either pass a string containing relative path to YAML or JSON file with all parameters (like in example above) or specify all parameters in YAML format under this key. More info on widdershins parameters.

### Usage

Add a <swaggerdoc></swaggerdoc> tag at the position in the document where the generated documentation should be inserted:

```
Introduction

This document contains the automatically generated documentation of our API.

s

</
```

Each time the preprocessor encounters the tag <swaggerdoc></swaggerdoc> it inserts the whole generated documentation text instead of it. The path or url to Swagger spec file are taken from foliant.yml.

You can also specify some parameters (or all of them) in the tag options:

```
Introduction

Introduction text for API documentation.

sexuaggerdoc json_url="http://localhost/swagger.json"
mode="jinja"
template="swagger.j2">
sexuaggerdoc>
sexuaggerdoc>
sexuaggerdoc>

sexuaggerdoc json_url="http://localhost/swagger.json"
```

```
mode="widdershins"
newsironment="env.yml">
syml">
syml">
mode="widdershins"
newsironment="env.yml">
```

Tag parameters have the highest priority.

This way you can have documentation from several different Swagger spec files in one foliant project (even in one md-file if you like it so).

### Customizing output

Jinja

jinja mode is deprecated. It may be removed in future

In jinja mode the output markdown is generated by the Jinja2 template. In this template all fields from Swagger spec file are available under the dictionary named swagger\_data.

To customize the output create a template which suits your needs. Then supply the path to it in the template parameter.

If you wish to use the default template as a starting point, build the foliant project with swaggerdoc preprocessor turned on. After the first build the default template will appear in your foliant project dir under name swagger.j2.

#### Widdershins

In widdershins mode the output markdown is generated by widdershins Node.js application. It supports customizing the output with doT.js templates.

- 1. Clone the original widdershins repository and modify the templates located in one of the subfolders in the **templates** folder.
- 2. Save the modified templates somewhere near your foliant project.
- 3. Specify the path to modified templates in the user\_templates field of the environment configuration. For example, like this:

# **TemplateParser**

pypi v1.0.2

# TemplateParser preprocessor for Foliant

Preprocessor which allows to use templates in Foliant source files. Preprocessor now supports only Jinja2 templating engine, but more can be added easily.

#### Installation

```
$ pip install foliantcontrib.templateparser
```

## Config

All params that are stated in foliant.yml are considered global params. All of them may be overriden in template tag options, which have higher priority.

**engine** name of the template engine which will be used to process template. Supported engines right now: jinja2.

**engine\_params** dictionary with parameters which will be transferred to the template engine.

**context** dictionary with variables which will be redirected to the template.

ext\_context path to YAML- or JSON-file with context dictionary. (relative to current md-file) All parameters with other names are also transfered to the template, as if they appeared inside the context dictionary. (param3 in the above example)

Please note that even if this may seem convenient, it is preferred to include template variables in the context dictionary, as in future more reserved parameters may be added which may conflict with your stray variables.

If some variable names overlap among these methods to supply context, preprocessor uses this priority order:

- 1. Context dictionary.
- 2. Stray variables.
- 3. External context file.

### Usage

To use the template in a Markdown file just insert a tag of the template engine name, for example:

```
1 This is ordinary markdown text.
2 <jinja2>
3 This is a Jinja2 template:
4 I can count to five!
5 {% for i in range(5) %}{{ i + 1 }}{% endfor %}
6 </jinja2>
```

After making a document with Foliant this will be transformed to:

```
This is ordinary markdown text.

This is a Jinja2 template:

I can count to five!

12345
```

You can also use a general <template> tag, but in this case you have to specify the engine you want to use in the engine parameter:

```
1 This is ordinary markdown text.
2 <template engine="jinja2">
3 This is a Jinja2 template:
4 I can count to five!
5 {% for i in range(5) %}{{ i + 1 }}{% endfor %}
6 </template>
```

Sending variables to template

To send a variable to template, add them into the context option. This option accepts yaml dictionary format.

Please note that foliant doesn't support multiline tag options yet, so use one-line dictionary format {"key1": value1, ...}

```
1 <jinja2 context="{'name': Andy, 'age': 8}">
2 Hi, my name is {{name}}!
3 I am {{age}} years old.
4 {% for prev in range(age - 1, 0, -1) %}
5 The year before I was {{prev}} years old.
6 {% endfor %}
7 </jinja2>
```

Result:

```
Hi, my name is Andy!
I am 8 years old.

The year before I was 7 years old.

The year before I was 6 years old.

The year before I was 5 years old.

The year before I was 4 years old.
```

```
The year before I was 3 years old.

The year before I was 2 years old.

The year before I was 1 years old.
```

#### Extends and includes

Extends and includes work in templates. The path of the extending\included file is relative to the Markdown file where the template lives.

In Jinja2 engine you can override the path of the included\extended files with root engine\_param. **Note that this param is relative to project root.** 

## **Testrail**

TestRail preprocessor collects test cases from TestRail project and adds to your testing procedure document.

### Installation

```
$ pip install foliantcontrib.testrail
```

## Config

To enable the preprocessor, add testrail to preprocessors section in the project config. The preprocessor has a number of options (best values are set by default where possible):

```
project_id: 35
 \\ Required
 suite_ids:
 \\ Optional
 section_ids:
 \\ Optional
 exclude_suite_ids:
 \\ Optional
 exclude_section_ids:
 \\ Optional
 exclude_case_ids:
11
 \\ Optional
 filename: test_cases.md
 \\ Optional
 rewrite_src_file: false
13
 \\ Optional
 template_folder: case_templates
 \\ Optional
 section_header: Testing program
 \\ Recommended
 add_std_table: true
 \\ Optional
 std_table_header: Table with testing results
 \\ Recommended
 std_table_column_headers: №; Priority; Platform; ID;
 Test case name; Result; Comment
 \\ Recommended
 add_suite_headers: true
 \\ Optional
 add_section_headers: true
 \\ Optional
 add_case_id_to_case_header: false
 \\ Optional
 add_case_id_to_std_table: false
 \\ Optional
 multi_param_name:
23
 \\ Optional
```

```
multi_param_select:
 \\ Optional
 multi_param_select_type: any
25
 \\ Optional
 add_cases_without_multi_param: true
26
 \\ Optional
 add_multi_param_to_case_header: false
27
 \\ Optional
 add_multi_param_to_std_table: false
 \\ Optional
 checkbox_param_name:
29
 \\ Optional
 checkbox_param_select_type: checked
30
 \\ Optional
 choose_priorities:
31
 \\ Optional
 add_priority_to_case_header: false
32
 \\ Optional
 add_priority_to_std_table: false
33
 \\ Optional
 resolve_urls: true
34
 \\ Optional
 screenshots_url: https://gitlab_repository.url
 \\ Optional
 screenshots_ext: .png
36
 \\ Optional
 print_case_structure: true
 \\ For debugging
```

testrail\_url URL of TestRail deployed.

testrail\_login Your TestRail username.

testrail\_pass Your TestRail password.

project\_id TestRail project ID. You can find it in the project URL, for example http://testrails.url/index.php?/projects/overview/17 <-.</pre>

**suite\_ids** If you have several suites in your project, you can download test cases from certain suites. You can find suite ID in the URL again, for example http://testrails.url/index.php?/suites/view/63... <-.

**section\_ids** Also you can download any sections you want regardless of it's level. Just keep in mind that this setting overrides previous *suite\_ids* (but if you set *suite\_ids* and then *section\_ids* from another suite, nothing will be downloaded). And suddenly you can find section ID in it's URL, for example http://testrails.url/index.php?/suites/view/124&group\_by=cases:section id&group order=asc&group id=3926 <-.

**exclude\_suite\_ids** You can exclude any suites (even stated in *suite\_ids*) from the document.

 ${\bf exclude\_section\_ids}$  The same with the sections.

**exclude\_case\_ids** And the same with the cases.

**filename** Path to the test cases file. It should be added to project chapters in *foliant.yml*. Default: *test cases.md*. For example:

```
1 title: &title Test procedure
3 chapters:
 - intro.md
 - conditions.md
 - awesome_test_cases.md <- This one for test cases</pre>
 - appendum.md
9 preprocessors:
 - testrail:
 testrail_url: http://testrails.url
11
 testrail_login: username
 testrail_pass: password
13
 project_id: 35
14
 filename: awesome_test_cases.md
```

**rewrite\_src\_file** You can update (*true*) test cases file after each use of preprocessor. Be careful, previous data will be deleted.

**template\_folder** Preprocessor uses Jinja2 templates to compose the file with test cases. Here you can find documentation: http://jinja.pocoo.org/docs/2.10/. You can store templates in folder inside the foliant project, but if it's not default case templates you have to write it here.

If this parameter not set and there is no default *case\_templates* folder in the project, it will be created automatically with two jinja files for TestRail templates by default – *Test Case (Text)* with *template\_id=1* and *Test Case (Steps)* with *template\_id=2*.

You can create TestRail templates by yourself in *Administration* panel, *Customizations* section, *Templates* part. Then you have to create jinja templates whith the names *[template\_id].j2* for them. For example, file *2.j2* for *Test Case (Steps)* TestRail template:

```
1
2 {% if case['custom_steps_separated'][0]['content'] %}
3 {% if case['custom_preconds'] %}
4 **Preconditions:**
5 {{ case['custom_preconds'] }}
7 {% endif %}
8 **Scenario:**
10 {% for case_step in case['custom_steps_separated'] %}
12 *Step {{ loop.index }}.* {{ case_step['content'] }}
13 *Expected result:*
14 {{ case_step['expected'] }}
15 {{ case_step['expected'] }}
17 {{ case_step['expected'] }}
18 {{ endfor %}}
20 {{ endif %}}
```

You can use all parameters of two variables in the template - case and params. Case parameters depends on TestRail template. All custom parameters have prefix "custom\_" before system name set in TestRail.

Here is an example of case variable (parameters depends on case template):

```
1 case = {
2 'created_by': 3,
```

```
'created_on': 1524909903,
 'custom_expected': None,
 'custom_goals': None,
 'custom_mission': None,
 'custom_preconds': '- The user is not registered in the
 system.\r\n'
 '- Registration form opened.',
 'custom_steps': '',
 'custom_steps_separated': [{
10
 'content': 'Enter mobile phone number.',
11
 'expected': '- Entered phone number '
12
 'is visible in the form field.'
13
 },
14
 {'content': 'Press OK button.',
 'expected': '- SMS with registration code '
 'received.\n'}],
17
 'custom_test_androidtv': None,
18
 'custom_test_appletv': None,
19
 'custom_test_smarttv': 'None,
 'custom_tp': True,
21
 'estimate': None,
22
 'estimate_forecast': None,
23
 'id': 15940,
 'milestone_id': None,
25
 'priority_id': 4,
26
 'refs': None,
27
 'section_id': 3441,
28
 'suite_id': 101,
 'template_id': 7,
30
 'title': 'Registration by mobile phone number.',
31
 'type_id': 7,
32
 'updated_by': 10,
33
 'updated_on': 1528978979
35 }
```

And here is an example of *params* variable (parameters are always the same):

```
params = {
 'multi_param_name': 'platform',
 'multi_param_sys_name': 'custom_platform',
 'multi_param_select': ['android', 'ios'],
 'multi_param_select_type': any,
 'add_cases_without_multi_param': False,
 'checkbox_param_name': 'publish',
 'checkbox param sys name': 'custom publish',
 'checkbox_param_select_type': 'checked',
 'choose_priorities': ['critical', 'high', 'medium'],
10
 'add_multi_param_to_case_header': True,
11
 'add multi param to std table': True,
12
 'add_priority_to_case_header': True,
13
 'add_priority_to_std_table': True,
 'add_case_id_to_case_header': False,
15
 'add case id to std table': False
16
17 }
```

Next three fields are necessary due localization issues. While markdown document with test cases is composed on the go, you have to set up some document headers. Definitely not the best solution in my life.

- **section\_header** First level header of section with test cases. By default it's *Testing* program in Russian.
- **add\_std\_table** You can exclude (*false*) a testing table from the document.
- **std\_table\_header** First level header of section with test results table. By default it's *Testing table* in Russian.
- **std\_table\_column\_headers** Semicolon separated headers of testing table columns. By default it's *№*; *Priority; Platform; ID; Test case name; Result; Comment* in Russian.
- add\_suite\_headers With false you can exclude all suite headers from the final document.
- **add\_section\_headers** With *false* you can exclude all section headers from the final document.
- add\_case\_id\_to\_case\_header Every test case in TestRail has unique ID, which, as usual, you can find in the header or test case URL: http://testrails.url/index.php?/cases/view/15920... <-. So you can add (*true*) this ID to the test case headers and testing table. Or not (*false*).

add\_case\_id\_to\_std\_table Also you can add (true) the column with the test
 case IDs to the testing table.

In TestRail you can add custom parameters to your test case template. With next settings you can use one *multi-select* or *dropdown* (good for platforms, for example) and one *checkbox* (publishing) plus default *priority* parameter for cases sampling.

multi\_param\_name Parameter name of multi-select or dropdown type you set in System Name field of Add Custom Field form in TestRail. For example, platforms with values Android, iOS, PC, Mac and web. If multi\_param\_select not set, all test cases will be downloaded (useful when you need just to add parameter value to the test headers or testing table).

multi\_param\_select Here you can set the platforms for which you want to get test cases (case insensitive). For example, you have similar UX for mobile platforms and want to combine them:

multi\_param\_select\_type With this parameter you can make test cases sampling in different ways. It has several options:

- any (by default) at least one of multi\_param\_select values should be set for the case,
- all all of multi\_param\_select values should be set and any other can be set for the case,
- only only multi\_param\_select values in any combination should be set for the case,
- match all and only multi param select values should be set for the case.

With *multi\_param\_select: android, ios* we will get the following cases:

Test cases	Android	iOS	PC	Mac	web	any	all	only	match
Test case 1	+	+				+	+	+	+
Test case 2	+	+				+	+	+	+
Test case 3			+	+					
Test case 4		+	+	+		+			
Test case 5	+	+			+	+	+		
Test case 6	+	+			+	+	+		
Test case 7			+	+	+				
Test case 8			+	+	+				
Test case 9		+				+		+	

- add\_cases\_without\_multi\_param Also you can include (by default) or exclude
   (false) cases without any value of multi-select or dropdown parameter.
- **add\_multi\_param\_to\_case\_header** You can add (*true*) values of *multi-select* or *dropdown* parameter to the case headers or not (by default).
- add\_multi\_param\_to\_std\_table You can add (true) column with values of
   multi-select or dropdown parameter to the testing table or not (by default).
- **checkbox\_param\_name** Parameter name of *checkbox* type you set in *System Name* field of *Add Custom Field* form in TestRail. For example, *publish*. Without parameter name set all of cases will be downloaded.
- checkbox\_param\_select\_type With this parameter you can make test cases
   sampling in different ways. It has several options:
- checked (by default) only cases whith checked field will be downloaded,
- unchecked only cases whith unchecked field will be downloaded.

**choose\_priorities** Here you can set test case priorities to download (case insensitive).

add\_priority\_to\_case\_header You can add (true) priority to the case headers
 or not (by default).

add\_priority\_to\_std\_table You can add (true) column with case priority to
 the testing table or not (by default).

Using described setting you can flexibly adjust test cases sampling. For example, you can download only published *critical* test cases for both and only *Mac* and *PC*.

Now strange things, mostly made specially for my project, but may be useful for others.

Screenshots. There is no possibility to store screenshots in TestRail projects, but you can store them in the GitLab repository (link to which should be stated in one of the following parameters). GitLab project should have following structure:

```
ı images/├─
2 smarttv/
 screenshot1_smarttv.png
 screenshot2_smarttv.png
 └ ...├
 androidtv/
 screenshot1 androidtv.png
 screenshot2_androidtv.png
 <u></u> ...⊢
 appletv/
 screenshot1_appletv.png
 screenshot2_appletv.png
 └─ ... ├─
13
14 web/
15 I
 screenshot1_web.png
 screenshot2_web.png
screenshot1.png
 screenshot2.png —
```

images folder used for projects without platforms.

Filename ending is a first value of *multi\_param\_select* parameter (*platform*). Now to add screenshot to your document just add following string to the test case (unfortunately, in TestRail interface it will looks like broken image link):

```
(leading exclamation mark here!)[Image title](
main_filename_part)
```

Preprocessor will convert to the following format:

```
https://gitlab.url/gitlab_group_name/gitlab_project_name/raw/master/images/platform_name/main_filename_part_platform_name.png
```

For example, in the project with *multi\_param\_select: smarttv* the string

```
(leading exclamation mark here!)[Application main screen](
main_screen)
```

will be converted to:

(leading exclamation mark here!)[Application main screen](
https://gitlab.url/documentation/application-screenshots/raw
/master/images/smarttv/main\_screen\_smarttv.png)

That's it.

resolve\_urls Turn on (true) or off (false, by default) image urls resolving.
screenshots\_url GitLab repository URL, in our example:
 https://gitlab.url/documentation/application-screenshots/.

**screenshots\_ext** Screenshots extension. Yes, it must be only one and the same for all screenshots.

And the last one emergency tool. If you have no jinja template for any type of TestRail case, you'll see this message like this: *There is no jinja template for test case template\_id 5 (case\_id 1325) in folder case\_templates.* So you have to write jinja template by yourself. To do this it's necessary to know case structure. This parameter shows it to you.

**print\_case\_structure** Turn on (*true*) or off (*false*, by default) printing out of case structure with all data in it if any problem occurs.

# Usage

Just add the preprocessor to the project config, set it up and enjoy the automatically collected test cases to your document.

### Tips

In some cases you may encounter a problem with test cases text format, so composed markdown file will be converted to the document with bad formatting. In this cases *replace* preprocessor could be useful: https://foliant-docs.github.io/docs/preprocessors/replace/.

# **CLI Extensions**

# Bump

This CLI extension adds bump command that lets you bump Foliant project semantic version without editing the config manually.

#### Installation

```
$ pip install foliantcontrib.bump
```

## Usage

Bump version from "1.0.0" to "1.0.1":

```
1 $ foliant bump
2 Version bumped from 1.0.0 to 1.0.1.
```

Bump major version:

```
1 $ foliant bump -v major
2 Version bumped from 1.0.1 to 2.0.0.
```

To see all available options, run foliant bump --help:

```
1 $ foliant bump --help
2 usage: foliant bump [-h] [-v VERSION_PART] [-p PATH] [-c CONFIG]
3
4 Bump Foliant project version.
5
6 optional arguments:
7 -h, --help show this help message and exit
8 -v VERSION_PART, --version-part VERSION_PART
```

```
Part of the version to bump: major, minor, patch, prerelease, or build (default: patch).

-p PATH, --path PATH Path to the directory with the config file (default: ".").

-c CONFIG, --config CONFIG

Name of the config file (default: "foliant.yml").
```

# **Gupload**

Gupload is the Foliant CLI extension, it's used to upload created documents to Google Drive.

Gupload adds gupload command to Foliant.

#### Installation

```
$ pip install foliantcontrib.gupload
```

# Config

To config the CLI extension, add gupload section in the project config. As gupload needs document to upload, appropriate backend settings also have to be here.

CLI extension has a number of options (all fields are required but can have no values):

```
gupload:
gdrive_folder_name: Foliant upload
gdrive_folder_id:
gdoc_title:
gdoc_id:
convert_file:
com_line_auth: false
```

**gdrive\_folder\_name** Folder with this name will be created on Google Drive to upload file.

**gdrive\_folder\_id** This field is necessary to upload files to previously created folder.

gdoc\_title Uploaded file will have this title. If empty, real filename will be used.
gdoc\_id This field is necessary to rewrite previously uploaded file and keep the link
to it.

convert\_file Convert uploaded files to google docs format or not.

**com\_line\_auth** In some cases it's impossible to authenticate automatically (for example, with Docker), so you can set *True* and use command line authentication procedure.

### Usage

At first you have to get Google Drive authentication file.

- 1. Go to APIs Console and make your own project.
- 2. Go to library, search for "Google Drive API", select the entry, and click "Enable".
- 3. Select "Credentials" from the left menu, click "Create Credentials", select "OAuth client ID".
- 4. Now, the product name and consent screen need to be set -> click "Configure consent screen" and follow the instructions. Once finished:
  - Select "Application type" to be Other types.
  - Enter an appropriate name.
  - Input http://localhost:8080 for "Authorized JavaScript origins".
  - Input http://localhost:8080/ for "Authorized redirect URIs".
  - Click "Save".
- 5. Click "Download JSON" on the right side of Client ID to download client\_secret\_- .json. The downloaded file has all authentication information of your application.
- 6. Rename the file to "client\_secrets.json" and place it in your working directory near foliant.yml.

Now add the CLI extension to the project config with all settings strings. At this moment you have no data to set *Google Drive folder ID* and *google doc ID* so keep it empty.

Run Foliant with gupload command:

```
Parsing config

Your browser has been opened to visit:

https://accounts.google.com/o/oauth2/auth?...

Authentication successful.

Uploading 'filename.docx' to Google Drive

Result:
Doc link: https://docs.google.com/document/d/1
GPvNSMJ4ZutZJwhUYM1xxCKWMU5Sg/edit?usp=drivesdk
Google drive folder ID: 1AaiWMNIYlq9639P30R3T9
Google document ID: 1GPvNSMJ4Z19YM1xCKWMU5Sg
```

Authentication form will be opened. Choose account to log in.
With command line authentication procedure differs little bit:

```
parsing config✓
Applying preprocessor flatten✓
Making docx with Pandoc

Result: filename.docx

Parsing config
Go to the following link in your browser:

https://accounts.google.com/o/oauth2/auth?...

Enter verification code: 4/XgBllTXpxv8kKjsiTxLc
Authentication successful.✓
Uploading 'filename.docx' to Google Drive
```

16

#### 17 Result:

- 18 Doc link: https://docs.google.com/document/d/1
  GPvNSMJ4ZutZJwhUYM1xxCKWMU5Sg/edit?usp=drivesdk
- 19 Google drive folder ID: 1AaiWMNIYlq9639P30R3T9
- 20 Google document ID: 1GPvNSMJ4Z19YM1xCKWMU5Sg

Copy link from terminal to your browser, choose account to log in and copy generated code back to the terminal.

After that the document will be uploaded to Google Drive and opened in new browser tab.

Now you can use *Google Drive folder ID* to upload files to the same folder and *google doc ID* to rewrite document (also you can IDs in folder and file links).

#### Notes

If you set up *google doc ID* without *Google Drive folder ID* file will be moved to the new folder with the same link.

# Meta

pypi v1.2.2

### Metadata for Foliant

This extension adds the meta generate command to Foliant, which generates the yaml-file with project metadata. It also allows to add other meta commands meta <command> which use the generated metadata.

#### Installation

\$ pip install foliantcontrib.meta

## Specifying metadata

Metadata for the *main section* (more on sections in **User's Guide** below) may be specified in the beginning of a Markdown-file using YAML Front Matter format:

```
1 ---
2 id: MAIN_DOC
3 title: Description of the product
4 key: value
5 ---
```

You may also use regular XML-like format with meta tag:

If meta tag is present, all Metadata from YAML Front Matter is ignored.

### meta generate command

Usage

To generate meta file run the meta generate command:

### \$ foliant meta generate

Metadata for the document will appear in the meta.yml file.

Config

Meta generate command has just one option right now. It is specified under meta section in config:

```
meta:
filename: meta.yml
```

**filename** name of the YAML-file with generated project metadata.

# User's guide

Metadata allows you to specific properties to your documents, which won't be visible directly to the end-user. These properties may be:

the document author's name;

- Jira ticket id;
- date of last revision;
- or anything else, there is not limitation.

This module is required for metadata to work in your projects. But it doesn't care about most of the fields and their values. The only exception being the id field. See **Special fields** section.

### Sections

You can specify metadata for a whole chapter and for it's portions, which are called *sections*. Section is a fragment of the document from one heading to another one of the same level of higher.

Metadata, specified at the beginning of the document (before the first heading), is applied to the whole Markdown document. We call it the *main section* of the chapter.

Note that you can specify metadata for the main section either in YAML Front Matter format, or with meta tag.

If you specify metadata after the heading of some level, it will be applied to all content inside this heading, including all other nested headings. See the illustration below.

```
id: main
author: John Smith
Introduction
<meta id="intro" type="optional"></meta>
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Sed sit ea ducimus
nemo, aut. Odio aspernatur ut laudantium nihil nam. Temporibus explicabo,
porro consectetur quia.
Requirements
<meta id="recs" type="optional"></meta>
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eligendi modi vero
deserunt, itaque odio quo!
Recommendations
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Fuga, rem.
Cum fugit omnis officia quia reprehenderit voluptate perspiciatis iusto iste,
magni magnam.
*** Description
<meta id="descr" hotel="trivago"></meta>
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam, fugit.
Culpa fuga autem nihil molestiae tenetur, dolorem recusandae officiis iusto,
pariatur voluptatem illo distinctio officia quae, excepturi error ducimus
minus temporibus laborum maxime qui quam? Obcaecati, facilis.
Summary
Tenetur magnam enim est nihil nemo iusto repudiandae corrupti officiis
dignissimos error. Atque tempore minus placeat aliquid nulla similique
repudiandae non corporis omnis eum doloribus magnam, officia temporibus.
```

# Special fields

Right now there's only one field that is treated specially: the id field.

If specified, it will used as identifier of the section. Note that IDs must be unique within the whole project.

If id field is omited — the section will get auto generated id based on:

- chapter filename for main section,
- title for general sections.

### Additional info

Metadata works only for files, mentioned in the chapters section in foliant.yml. All other files in src dir are ignored.

When using includes, all metadata from the included content is removed.

# ProjectGraph



# ProjectGraph

Foliant Meta Command which draws a scheme of project sections. This extension uses meta-information, collected by folinatcontrib.meta extension.

Graphviz is used to build a scheme.

libgraphviz-dev is required to be installed on your machine.

#### Installation

```
$ pip install foliantcontrib.project_graph
```

### Usage

First you need to specify all relations between the documents in your project. To do this add the relates section to your document's meta-data:

```
1 ---
2 relates:
3 - tests/test1.md
4 - specs/spec.md
5 ---
```

in relates section you need to specify a list of documents to which current document relates. You can specify either a relative path to connected document or its ID (if the corresponding document has an ID assigned in its meta section):

```
1 ### index.md
2 ---
3 id: index
4 ---
```

After you specified all relations, run the draw command:

### \$ foliant draw

Scheme will appear in the file project\_graph.png

## Config

ProjectGraph has a number of options:

```
project_graph:
 directed: false
 filename: project_graph.png
 gv_attributes:
 node:
5
 shape: rect
 color: green
 edge:
 arrowhead: open
 graph:
10
 ranksep: 1
11
 main_relation:
12
 penwidth: 2
13
```

If you want to adjust the look of just one node, add a <code>gv\_attributes</code> option into the meta of the document:

```
id: index
relates:
 - glossary

yv_attributes:
 color: green
 shape: circle

```

You can also change the look of the edges, which connect nodes. To do this you can use a detailed syntax of relations.

## Relations detailed syntax

As stated in the beginning, to specify relations you need to add a relates param and include a list of related documents IDs\file paths:

But there's also a detailed syntax for specifying relations, it looks like this:

```
1 ---
```

```
relates:
 - rel_path: doc1.md
 type: details
 - rel_id: MAIN_SPEC
 gv_attributes:
 color: #CCCCCC
 arrowhead: none
```

In the detailed syntax each relation is not a string, but a mapping. This time you have to explicitly use either rel\_path key, if you are pointing to a document by path, or rel\_id if you do it by ID.

Also you can specify relation type by adding a type key. Right now the value of this key just goes to the edge label, but soon you'll be able to change the appearance of all edges with one type.

Finally you can override this specific edge's appearance by adjusting Graphviz attributes in the gv\_attributes key.

# Init

This CLI extension add init command that lets you create Foliant projects from templates.

#### Installation

```
$ pip install foliantcontrib.init
```

### Usage

Create project from the default "base" template:

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Create project from a custom template:

```
1 $ foliant init --template /path/to/custom/template
2 Enter the project name: Awesome Customized Docs
3 Generating Foliant project
4
5 Project "Awesome Customized Docs" created in awesome-customized-docs
```

You can provide the project name without user prompt:

```
1 $ foliant init --name Awesome Docs✔
2 Generating Foliant project
3
4 Project "Awesome Docs" created in awesome-docs
```

Another useful option is --quiet, which hides all output except for the path to the generated project:

```
1 $ foliant init --name Awesome Docs --quiet
2 awesome-docs
```

To see all available options, run foliant init --help:

```
1 $ foliant init --help
2 usage: foliant init [-h] [-n NAME] [-t NAME or PATH] [-q]
3
4 Generate new Foliant project.
5
6 optional arguments:
7 -h, --help show this help message and exit
8 -n NAME, --name NAME Name of the Foliant project
9 -t NAME or PATH, --template NAME or PATH
```

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```
Name of a built-in project template or path to custom one

11 -q, --quiet Hide all output accept for the result. Useful for piping.
```

### **Project Templates**

A project template is a regular Foliant project but containing placeholders in files. When the project is generated, the placeholders are replaced with the values you provide. Currently, there are two placeholders: \$title and \$slug.

There is a built-in template called base. It's used by default if no template is specified.

# **Init Templates**

# Preprocessor

Template for a Foliant preprocessor. Instead of looking for an existing preprocessor, cloning it, and modifying its source, install this package and generate a preprocessor directory. As simple as:

```
$ foliant init -t preprocessor
```

Installation

```
$ pip install --no-compile foliantcontrib.templates.
preprocessor
```

Usage

```
1 $ foliant init -t preprocessor
2 Enter the project name: Awesome Preprocessor
3 Generating project
4
5 Project "Awesome Preprocessor" created in awesome-preprocessor
```

Or:

```
1 $ foliant init -t preprocessor -n "Awesome Preprocessor"✓
2 Generating project————
3
4 Project "Awesome Preprocessor" created in awesome-
preprocessor
```

Result:

# Src

This extension supports the command src to backup the source directory of Foliant project (usually called as src) and to restore it from prepared backup.

Backing up of the source directory is needed because MultiProject extension modifies this directory by moving the directories of built subprojects into it.

## Installation

To enable the src command, install MultiProject extension:

```
$ pip install foliantcontrib.multiproject
```

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# Usage

To make a backup of the source directory, use the command:

### \$ foliant src backup

To restore the source directory from the backup, use the command:

#### \$ foliant src restore

You may use the --config option to specify custom config file name of your Foliant project. By default, the name foliant.yml is used:

### \$ foliant src backup --config alternative\_config.yml

Also you may specify the root directory of your Foliant project by using the --path option. If not specified, current directory will be used.

# Subset

This CLI extension adds the command subset that generates a config file for a subset (i.e. a detached part) of the Foliant project. The command uses:

- the common (i.e. default, single) config file for the whole Foliant project;
- the part of config that is individual for each subset. The Foliant project may include multiple subsets that are defined by their own partial config files.

The command subset takes a path to the subset directory as a mandatory command line parameter.

The command subset:

- reads the partial config of the subset;
- optionally rewrites the paths of Markdown files that specified there in the chapters section;
- merges the result with the default config of the whole Foliant project config;
- finally, writes a new config file that allows to build a certain subset of the Foliant project with the make command.

#### Installation

To install the extension, use the command:

### \$ pip install foliantcontrib.subset

### Usage

To get the list of all necessary parameters and available options, run foliant subset --help:

```
1 $ foliant subset --help
2 usage: foliant subset [-h] [-p PROJECT_DIR_PATH] [-c CONFIG]
 [-n] [-d] SUBPATH
4 Generate the config file to build the project subset from
 SUBPATH.
6 positional arguments:
 Path to the subset of the Foliant
 SUBPATH
 project
9 optional arguments:
 -h, --help
 show this help message and exit
 -p PROJECT_DIR, --path PROJECT_DIR
 Path to the Foliant project
 -c CONFIG, --config CONFIG
13
 Name of config file of the Foliant
 project, default 'foliant.yml'
 Do not rewrite the paths of Markdown
-n, --norewrite
 files in the subset partial config
-d, --debug
 Log all events during build. If not
 set, only warnings and errors are logged
```

In most cases it's enough to use the default values of optional parameters. You need to specify only the SUBPATH—the directory that should be located inside the Foliant project source directory.

Suppose you use the default settings. Then you have to prepare:

- the common (default) config file foliant.yml in the Foliant project root directory;
- partial config files for each subset. They also must be named foliant.yml, and they must be located in the directories of the subsets.

Your Foliant project tree may look so:

```
1 $ tree
2.
₃ foliant.yml —
 src
 - group_1
 product_1
 └─ feature_1
 ├─ foliant.yml
 index.md
 - product_2
10
 ├─ foliant.yml
 └─ main.md
 - group_2
13
 foliant.yml
14
 - intro.md
15
```

The command foliant subset group\_1/product\_1/feautre\_1 will merge the files ./src/group\_1/product\_1/feautre\_1/foliant.yml and ./foliant.yml, and write the result into the file ./foliant.yml.subset.

After that you may use the command like the following to build your Foliant project:

```
$ foliant make pdf --config foliant.yml.subset
```

Let's look at some examples.

The content of the common (default) file ./foliant.yml:

```
title: &title Default Title
```

```
3 subtitle: &subtitle Default Subtitle
s version: &version 0.0
7 backend_config:
 pandoc:
 template: !path /somewhere/template.tex
 reference_docx: !path /somewhere/reference.docx
 vars:
11
 title: *title
12
 version: *version
13
 subtitle: *subtitle
14
 year: 2018
 params:
16
 pdf_engine: xelatex
```

The content of the partial config file ./src/group\_1/product\_1/feautre\_1/foliant.yml:

```
title: &title Group 1, Product 1, Feature 1

subtitle: &subtitle Technical Specification

version: &version 1.0

chapters:
 - index.md

backend_config:
 pandoc:
 vars:
 year: 2019
```

The content of newly generated file ./foliant.yml.subset:

```
1 title: &title Group 1, Product 1, Feature 1
2 subtitle: &subtitle Technical Specification
3 version: &version 1.0
4 backend_config:
 pandoc:
 template: !path /somewhere/template.tex
 reference_docx: !path /somewhere/reference.docx
 vars:
 title: *title
 version: *version
10
 subtitle: *subtitle
11
 year: 2019
12
 params:
13
 pdf_engine: xelatex
15 chapters:
16 - b2b/order_1/feature_1/index.md
```

If the option --no-rewrite is not set, the paths of Markdown files that are specified in the chapters section of the file ./src/group\_1/product\_1/feautre\_1 /foliant.yml, will be rewritten as if these paths were relative to the directory ./src/group\_1/product\_1/feautre\_1/.

Otherwise, the Subset CLI extension will not rewrite the paths of Markdown files as if they were relative to <code>./src/</code> directory.

Note that the Subset CLI Extension merges the data of the config files recursively, so any subkeys of default config may be overridden by the settings of partial config.

# Config Extensions

# MultiProject

This extension resolves the !from YAML tag in the project config and replaces the value of the tag with chaptres section of related subproject.

Nested subprojects are processed recursively.

#### Installation

```
$ pip install foliantcontrib.multiproject
```

#### Usage

The subproject location may be specified as a local path, or as a Git repository with optional revision (branch name, commit hash or another reference).

Example of chapters section in the project config:

```
chapters:
 - index.md
 - !from local_dir
 - !from https://github.com/foliant-docs/docs.git
 - !from https://github.com/some_other_group/
some_other_repo.git#develop
```

Before building the documentation superproject, Multiproject extension calls Foliant to build each subproject into pre target, and then moves the directories of built subprojects into the source directory of the superproject (usually called as src).

#### Limitations:

- directory names of subprojects of the same level should be unique;
- source directories of the multiproject and of all the subprojects should have the same names; also they should be located inside the "root" directories of corresponding projects;
- config files of the multiproject and of all the subprojects should have the same names;

- subprojects from remote Git repositories do not need to be newly cloned before each build, but local subprojects are copied into cache before each build;
- it's undesirable if the path of the "root" directory of the top-level project contains
   .multiprojectcache directory as its some part.

#### Slugs

Slugs is an extension for Foliant to generate custom slugs from arbitrary lists of values.

It resolves !slug, !date, !version, and !commit\_count YAML tags in the project config.

The list of values after the !slug tag is replaced with the string that joins these values using - delimeter. Spaces () in the values are replaced with underscores (\_).

The value of the node that contains the !date tag is replaced with the current local date.

The list of values after the !version tag is replaced with the string that joins these values using . delimeter.

The value of the node that contains the !commit\_count tag is replaced by the number of commits in the current Git repository.

#### Installation

```
$ pip install foliantcontrib.slugs
```

#### Usage

Slug

Config example:

Example of the resulting slug:

```
My_Awesome_Project-1.0-2018-05-10
```

Note that backends allow to override the top-level slug, so you may define different custom slugs for each backend:

```
backend_config:
pandoc:
slug: !slug

- *title
- *version
- !date
mkdocs:
slug: my_awesome_project
```

Version

Config example:

```
version: !version [1, 0, 5]
```

Resulting version:

```
1.0.5
```

If you wish to use the number of commits in the current branch as a part of your version, add the !commit\_count tag:

```
version: !version
 - 1
 - !commit_count
```

Resulting version:

#### 1.85

The !commit\_count tag accepts two arguments:

- name of the branch to count commits in;
- correction—a positive or negative number to adjust the commit count.

Suppose you want to bump the major version and start counting commits from the beginning. Also you want to use only number of commits in the master branch. So your config will look like this:

```
version: !version
 - 2
 - !commit_count master -85
```

Result:

2.0

# History of Releases

Here is the single linear history of releases of Foliant and its extensions. It's also available as an RSS feed.

# [2019-12-20] foliantcontrib.utils.header\_anchors 1.0.0

- Initial release.

# [2019-12-20] foliantcontrib.anchors 1.0.3

- Better regex patterns.
- Conflicts are now determined for each backend separately.
- Add confluence anchors

#### [2019-12-20] foliantcontrib.meta 1.2.2

- Don't require empty line between heading and meta tag.
- Allow comments in YFM.
- Better patterns for sections detection.

## [2019-12-20] foliantcontrib.superlinks 1.0.0

- Initial release

# [2019-12-12] foliantcontrib.showcommits 1.0.1

- Fix template processing. Log repo path.

#### [2019-12-12] foliantcontrib.flatten 1.0.6

Rewrite local links (e.g. some\_file.md#some\_id → #some\_id).

# [2019-12-04] foliantcontrib.slate 1.0.7

- Fix: images are preserved in the output, even from subfolders.
- YAML Front Matter from the sources is now ignored.

#### [2019-12-02] foliantcontrib.init 1.0.8

- Add comment to Dockerfile with option to use Foliant full image.
- Remove slugs from docker-compose. Now the service is always named foliant.

# [2019-11-22] foliantcontrib.meta 1.2.1

Fix bug with imports.

# [2019-11-21] foliantcontrib.meta 1.2.0

- Support sections
- meta.yml format restructure

# [2019-11-21] foliantcontrib.confluence 0.6.4

Support meta 1.2. Now you can publish sections to confluence.

# [2019-11-21] foliantcontrib.includes 1.1.8

Support meta 1.2

# [2019-11-20] foliantcontrib.imgcaptions 1.0.2

- Fix: stylesheet\_path only worked with the !project\_path modifier.
- Add the template parameter to customize the caption HTML tag.

# [2019-11-09] foliantcontrib.mdtopdf 1.0.0

- Initial release.

# [2019-11-06] foliantcontrib.ramldoc 1.0.1

Initial release

# [2019-10-28] foliantcontrib.aglio 1.0.0

Initial release

#### [2019-10-25] foliantcontrib.slate 1.0.6

- Fix bug with error catching introduced in 1.0.5

# [2019-10-25] foliantcontrib.slate 1.0.5

- Better error reporting.
- Fixes for working with includes.

# [2019-10-16] foliantcontrib.escapecode 1.0.2

- Improve flexibility: add new actions, allow to override defaults.

# [2019-10-16] foliantcontrib.multiproject 1.0.12

- Take into account the quiet flag. Require Foliant 1.0.11 for this reason.

# [2019-10-16] foliantcontrib.includes 1.1.7

 Allow to specify custom options for EscapeCode preprocessor as the escape\_code.options config parameter value.

#### [2019-10-16] foliant 1.0.11

- Allow to specify custom options for EscapeCode preprocessor as the escape\_code.options config parameter value.
- Pass the quiet flag to BaseParser() as an optional argument for using in config extensions.

# [2019-10-15] foliantcontrib.subset 1.0.9

Fix incompatibilities with newer versions of modules: Cliar, PyYAML.

# [2019-10-10] foliantcontrib.multiproject 1.0.11

- Allow recursive processing of nested subprojects.
- Allow to specify type (HTML/Markdown) and location for repo links.
- Fix incompatibility with new Cliar: key names should not contain hyphens.

#### [2019-10-07] foliantcontrib.confluence 0.6.3

- Remove resolved inline comments as they mix up with unresolved.

# [2019-10-04] foliantcontrib.mermaid 1.0.1

- Better error reporting

# [2019-10-02] foliantcontrib.utils.combined\_options 1.0.8

- Fix validate\_exists validator.

# [2019-10-01] foliantcontrib.confluence 0.6.2

- Added parent\_title parameter.
- Fix: images were not uploaded for new pages.

# [2019-10-01] foliantcontrib.multiproject 1.0.10

- Allow the first heading to be located not in the beginning of a document.

#### [2019-09-26] foliantcontrib.flatten 1.0.5

 Add the keep\_sources option to keep original files in the temporary working directory after flattening.

# [2019-09-25] foliantcontrib.confluence 0.6.0

- Now content is put in place of foliant anchor or instead of foliant\_start
   ... foliant\_end anchors on the target page. If no anchors on page content replaces the whole body.
- New modes (backwards compatibility is broken!).
- Now following files are available for debug in cache dir: 1. markdown before conversion to html. 2. Converted to HTML. 3. Final XHTML source which is uploaded to confluence.
- Working (but far from perfect) detection if file was changed.
- Only upload changed attachments.

Updating attachments instead of deleting and uploading again.

#### [2019-09-19] foliantcontrib.confluence 0.5.2

- Completely rewrite restoring inline comments feature.
- Add restore\_comments and resolve\_if\_changed emergency options.
- Allow insert raw confluence code (macros, etc) inside <raw\_confluence> tag.

# [2019-09-19] foliantcontrib.history 1.0.8

- Allow to ignore merge commits in from: commits mode.

# [2019-09-18] foliantcontrib.history 1.0.7

- Allow to get repo names from README files.

# [2019-09-16] foliantcontrib.history 1.0.6

Fix some regex patterns.

# [2019-09-16] foliantcontrib.history 1.0.5

Allow to generate history based on tags and commits.

# [2019-09-13] foliantcontrib.history 1.0.4

Add templates for target Markdown headings and RSS items titles.

# [2019-09-13] foliantcontrib.history 1.0.3

Escape regex metacharacters in headings.

# [2019-09-10] foliantcontrib.epsconvert 1.0.7

- Fix image reference detection pattern, other minor fixes.

# [2019-09-09] foliantcontrib.history 1.0.2

Do not generate common top-level heading of target Markdown content.

#### [2019-09-06] foliantcontrib.history 1.0.1

Add RSS feed generation.

# [2019-08-28] foliantcontrib.includes 1.1.6

 Escape regular expression metacharacters in starting and ending headings, IDs, modifiers.

# [2019-08-27] foliantcontrib.includes 1.1.5

Remove meta blocks from the included content.

# [2019-08-26] foliantcontrib.mkdocs 1.0.10

Fix pattern for heading detection.

# [2019-08-26] foliantcontrib.swaggerdoc 1.2.0

- Add spec\_path and spec\_url parameters.
- All path tag parameters are now loaded relative to current file.
- Better logging and error reporting

# [2019-08-26] foliantcontrib.utils.combined\_options 1.0.7

- Add validate\_exists validator.
- Add rel\_path\_convertor.

# [2019-08-26] foliantcontrib.customids 1.0.6

Allow to define custom styles for headings of each level.

# [2019-08-26] foliantcontrib.confluence 0.4.1

Fix: conflict with escape\_code

#### [2019-08-23] foliantcontrib.includes 1.1.4

- Allow for the starting and ending headings to be 1-character long.

# [2019-08-23] foliantcontrib.confluence 0.4.0

- Fix: attachments were not uploaded for nonexistent pages
- Change confluence api wrapper to atlassian-python-api
- Rename backend to confluence
- Better error reporting

# [2019-08-23] foliantcontrib.mkdocs 1.0.9

- Allow the first heading to be located not in the beginning of a document.

#### [2019-08-23] foliantcontrib.epsconvert 1.0.6

 Bug fix: update current directory path before processing of Markdown file content, not after.

# [2019-08-22] foliantcontrib.imagemagick 1.0.2

 Bug fix: update current directory path before processing of Markdown file content, not after.

## [2019-08-22] foliantcontrib.meta 1.1.0

- Remove the sections entity.
- Restructure code.

# [2019-08-22] foliantcontrib.confluence 0.3.0

- Fix bug with images.
- Add multiple modes and mode parameter.
- Add toc parameter to automatically insert toc.
- Fix: upload attachments before text update (this caused images to disappear after manually editing).

#### [2019-08-20] foliantcontrib.meta 1.0.3

- Add span to meta

# [2019-08-16] foliantcontrib.confluence 0.2.0

- Allow to input login and/or password during build
- Added pandoc\_path option
- Better logging and error catching

# [2019-08-16] foliantcontrib.utils.combined\_options 1.0.6

- Add check for required params.
- Add val\_type validator to check for param types.
- Allow to set values in Options objects

## [2019-08-15] foliantcontrib.confluence 0.1.0

- Initial release.

#### [2019-08-14] foliantcontrib.includes 1.1.3

 Allow to specify IDs of anchors in the from\_id and to\_id attributes. Support the to\_end attribute.

### [2019-08-02] foliantcontrib.escapecode 1.0.1

 Do not ignore diagram definitions. It should be possible to escape the tags used by diagram drawing preprocessors. If some preprocessors need to work with the content that is recognized as code, call UnescapeCode explicitly before them.

#### [2019-08-01] foliantcontrib.replace 1.0.3

- Fixed issue with PyYAML deprecated loader.

#### [2019-08-01] foliantcontrib.mermaid 1.0.0

Initial release

# [2019-07-30] foliantcontrib.includes 1.1.2

 Fix include statement regex pattern. Tags joined with | must be in non-capturing parentheses.

#### [2019-07-30] foliant 1.0.10

 Add escape\_code config option. To use it, escapecode and unescapecode preprocessors must be installed.

#### [2019-07-30] foliantcontrib.includes 1.1.1

- Support escape\_code config option. Require Foliant 1.0.10 and escapecode preprocessor 1.0.0.
- Process sethead recursively.

# [2019-07-29] foliantcontrib.utils.preprocessor\_ext 1.0.2

- fix output
- remove get\_options overriding, it's now implemented similarly in core

# [2019-07-16] foliantcontrib.bindsympli 1.0.14

- Add width attribute to <sympli> tag.
- Refactor a little.

# [2019-07-15] foliantcontrib.slugs 1.0.1

Add !version and !commit\_count YAML tags.

# [2019-07-09] foliantcontrib.docus 0.2.0

More flexible chapters parsing. Lists are now not mandatory.

#### [2019-07-09] foliantcontrib.docus 0.1.0

Initial release.

# [2019-07-05] foliantcontrib.runcommands 1.0.1

Capture the output of an external command and write it to STDOUT.

# [2019-07-01] foliantcontrib.meta 1.0.2

- Fix: subsections title may be specified in YFM;
- Fix: in subsections title was being cropped out

# [2019-07-01] foliantcontrib.project\_graph 1.0.1

- Rename rel attributes: rel\_path to path, rel\_id to id
- Relation types now don't implicitly go to edge labels. Add label explicitly from now on.
- Fixed: relations to !project\_path and !rel\_path didn't work.

#### [2019-07-01] foliantcontrib.meta 1.0.1

- Fix: seeds for main sections were not processed.
- Add debug messages for seeds processing.

# [2019-06-28] foliantcontrib.project\_graph 1.0.0

Initial release.

# [2019-06-28] foliantcontrib.meta 1.0.0

Initial release.

# [2019-06-28] foliantcontrib.includes 1.1.0

Support Foliant 1.0.9. Add processing of !path, !project\_path, and ! rel\_path modifiers (i.e. YAML tags) in attribute values of pseudo-XML tags inside the included content. Replace the values that preceded by these modifiers with absolute paths resolved depending on current context.

- Allow to specify the top-level ("root") directory of Foliant project that the included file belongs to, with optional project\_root attribute of the <include> tag.
   This can be necessary to resolve the !path and the !project\_path modifiers in the included content correctly.
- Allow to specify all necessary parameters of each include statement as attribute values of pseudo-XML tags. Keep legacy syntax for backward compatibility.
- Update README.

#### [2019-06-17] foliant 1.0.9

- Process attribute values of pseudo-XML tags as YAML.
- Allow single quotes for enclosing attribute values of pseudo-XML tags.
- Add !project\_path and !rel\_path YAML tags.

# [2019-06-14] foliantcontrib.utils.preprocessor\_ext 1.0.1

support PyYAML 5.1

# [2019-06-14] foliantcontrib.utils.combined\_options 1.0.5

support PyYAML 5.1

# [2019-06-14] foliantcontrib.templateparser 1.0.2

support PyYAML 5.1

#### [2019-06-14] foliantcontrib.bindsympli 1.0.13

- Set 2-minutes timeout instead of default 30-seconds when launching Chromium.
- Use page.waitForSelector() instead of page.waitForNavigation().
- Use custom sleep() function for intentional delays.

#### [2019-06-13] foliantcontrib.badges 1.0.2

support params which alter badge look to be supplied in tag params

#### [2019-06-11] foliantcontrib.badges 1.0.1

- force img mode on pdf and docx
- add target parameter

# [2019-06-11] foliantcontrib.badges 1.0.0

- Initial release

# [2019-06-10] foliantcontrib.admonitions 1.0.0

Initial release.

# [2019-05-20] foliantcontrib.graphviz 1.1.1

- Remove src param. (Use includes instead)
- Allow separate tags fail. Preprocessor would issue warning and continue work.

# [2019-05-20] foliantcontrib.templateparser 1.0.1

- add ext context param for external file with context
- allow separate templates to fail, the preprocessor would issue warning and skip them

# [2019-05-20] foliantcontrib.utils.combined\_options 1.0.4

Add path convertor which converts string options to pathlib.PosixPath

# [2019-05-17] foliantcontrib.blockdiag 1.0.5

Attributes of pseudo-XML tags have higher priority than config file options.

# [2019-05-17] foliantcontrib.plantuml 1.0.6

Attributes of <plantuml> tag have higher priority than config file options.

# [2019-05-17] foliantcontrib.utils.preprocessor\_ext 1.0.0

- Initial release.

# [2019-05-15] foliantcontrib.utils.combined\_options 1.0.3

add iter method to allow for param in options

# [2019-05-15] foliantcontrib.utils.combined\_options 1.0.2

- add "0"'1' to bool convertor

#### [2019-05-14] foliantcontrib.templateparser 1.0.0

Initial release

# [2019-04-30] foliantcontrib.bindsympli 1.0.12

Capture the output of the Puppeter-based script and write it to STDOUT.

#### [2019-04-15] foliantcontrib.swaggerdoc 1.1.3

- Fix issues with json and yaml. All spec files are now loaded with yaml loader.
- Change PyYAML to ruamel.yaml
- jinja mode is deprecated, widdershins is the default mode

#### [2019-04-10] foliantcontrib.mkdocs 1.0.8

 Escape control characters (double quotation marks, dollar signs, backticks) that may be used in system shell commands.

# [2019-04-10] foliantcontrib.pandoc 1.0.10

Add backticks to the set of characters that should be escaped.

#### [2019-04-10] foliantcontrib.pandoc 1.0.9

 Escape double quotation marks (") and dollar signs (\$) which may be used in PDF, docx, and TeX generation commands as parts of filenames, variable values, etc. Enclose filenames that may be used in commands into double quotes.

#### [2019-04-05] foliantcontrib.includes 1.0.11

Take into account the results of work of preprocessors that may be applied before includes within a single Foliant project. Rewrite the currently processed Markdown file path with the path of corresponding file that is located inside the project source directory *only* if the currently processed Markdown file is located inside the temporary working directory *and* the included file is located outside the temporary working directory. Keep all paths unchanged in all other cases.

# [2019-03-27] foliantcontrib.graphviz 1.0.6

Added as image option.

# [2019-03-21] foliantcontrib.anchors 1.0.2

Added preprocessor\_ext for better warnings (and better code)

# [2019-03-21] foliantcontrib.anchors 1.0.1

Added "element" option to customize anchor span element.

# [2019-03-21] foliantcontrib.anchors 1.0.0

Initial release

# [2019-03-21] foliantcontrib.utils.combined\_options 1.0.1

- Add boolean convertor

[2019-03-14] foliantcontrib.notifier 1.0.0

# [2019-02-21] foliantcontrib.testrail 1.1.8

- Hardcoded section headers processing removed.

# [2019-02-18] foliantcontrib.replace 1.0.2

- Now it's possible to pass the lambda function from dictionary file.
- with confirmation parameter added.

# [2019-02-15] foliantcontrib.csvtables 1.0.1

- setup.py fixed.

# [2019-02-14] foliantcontrib.graphviz 1.0.4

- Moved combined options out

# [2019-02-14] foliantcontrib.apilinks 1.1.3

- Moved combined options into a submodule

# [2019-02-14] foliantcontrib.pgsqldoc 1.1.5

Move combined\_options into another module

# [2019-02-14] foliantcontrib.utils.combined\_options 1.0.0

Initial release.

# [2019-02-12] foliantcontrib.testrail 1.1.7

Sections exclusion fixed.

#### [2019-02-08] foliantcontrib.testrail 1.1.6

Case structure output fixed if any problem occurs.

# [2019-02-01] foliantcontrib.testrail 1.1.5

- Bug with test case table numbering when deleting empty objects fixed.
- Readme updated.

# [2019-01-21] foliantcontrib.apilinks 1.1.1

Added filename to warnings.

# [2019-01-10] foliantcontrib.bindsympli 1.0.11

Disable images downloading from design pages only, but not from login page.

# [2018-12-24] foliantcontrib.graphviz 1.0.2

- Fixed external diagrams not reloading on change.
- Fixed external diagrams are not crashing preprocessor if the file is missing.

# [2018-12-20] foliantcontrib.bindsympli 1.0.10

- Check if the design page exists and the image URL is valid.

# [2018-12-17] foliantcontrib.graphviz 1.0.1

Added "src" tag option to load diagram source from external file.

# [2018-12-17] foliantcontrib.graphviz 1.0.0

- Initial release

# [2018-12-13] foliantcontrib.apilinks 1.1.0

- Prefixes are now case insensitive.
- Only prefixes which are defined are trimmed.

- New option only-defined-prefixes to ignore all prefixes which are not listed in config.
- Options renamed and regrouped. Breaks backward compatibility.
- Support of several reference pattern and properties (to catch models).
- Now search on API page for headers h1, h2, h3 and h4.

# [2018-12-06] foliantcontrib.subset 1.0.8

Remove forgotten unnecessary import.

#### [2018-12-06] foliantcontrib.subset 1.0.7

- Move the imports of the oyaml module directly into the methods that use it.

# [2018-12-06] foliantcontrib.bindsympli 1.0.9

- Move the while loop from JavaScript code to Python code.
- Add the max attempts config option.
- Require Foliant 1.0.8 because of using the utils.output() method.

# [2018-12-04] foliantcontrib.subset 1.0.6

- Fix a bug: check if subset partial config contains chapters section correctly.
- Inherit the class Cli from BaseCli, not from Cliar.

# [2018-12-04] foliantcontrib.multiproject 1.0.9

- Inherit the class Cli from BaseCli, not from Cliar.

#### [2018-12-04] foliantcontrib.apilinks 1.0.5

- Now both command and endpoint prefix are ensured to start from root (/).

# [2018-12-03] foliantcontrib.apilinks 1.0.4

- Fix not catching errors from urllib.
- Added "ignoring-prefix" option.
- Added "endpoint-prefix" option into API->Name section.

### [2018-11-29] foliantcontrib.apilinks 1.0.3

Add require-prefix option.

#### [2018-11-29] foliantcontrib.apilinks 1.0.2

Trim prefixes function.

# [2018-11-29] foliantcontrib.apilinks 1.0.1

- Update docs, fix anchor error.
- Add all HTTP verbs to regular expression.

# [2018-11-27] foliantcontrib.apilinks 1.0.0

- Initial release.

# [2018-11-23] foliantcontrib.templates.preprocessor 1.0.3

- Fix packages value in setup.py of the template: use foliant. preprocessors instead of foliantcontrib.preprocessors.
- Require Foliant 1.0.8 in setup.py of the template.

# [2018-11-20] foliantcontrib.testrail 1.1.4

Another bug with multi-select parameter processing fixed.

# [2018-11-20] foliantcontrib.testrail 1.1.3

- Jinja templates updated.
- Bug with multi-select parameter processing fixed.

# [2018-11-19] foliantcontrib.testrail 1.1.2

Now it's possible to use dropdown type parameters for test cases samplings.

#### [2018-11-19] foliantcontrib.testrail 1.1.1

- Readme updated.

# [2018-11-19] foliantcontrib.testrail 1.1.0

- Removed parameters:
  - platforms,
  - platform id,
  - add\_cases\_without\_platform,
  - add\_unpublished\_cases.
- Added parameters:
  - exclude suite ids to exclude suites from final document by ID,
  - exclude section ids to exclude sections from final document by ID,
  - exclude\_case\_ids to exclude cases from final document by ID,
  - add case id to std table to add column with case ID to the testing table,
  - multi\_param\_name name of custom TestRail multi-select parameter for cases sampling,
  - multi\_param\_select values of multi-select parameter for cases sampling,
  - multi\_param\_select\_type sampling method,
  - add\_cases\_without\_multi\_param to add cases without any value of multiselect parameter,
  - add\_multi\_param\_to\_case\_header to add values of multi-select parameter to the case headers,
  - add\_multi\_param\_to\_std\_table to add column with values of multi-select parameter to the testing table,
  - checkbox\_param\_name name of custom TestRail checkbox parameter for cases sampling,
  - checkbox\_param\_select\_type state of custom TestRail checkbox parameter for cases sampling,
  - choose\_priorities selection of case priorities for cases sampling,
  - add priority to case header to add priority to the case header,
  - add\_priority\_to\_std\_table to add column with priority to the testing table.
- Renamed parameters:
  - add\_case\_id\_to\_case\_name -> add\_case\_id\_to\_case\_header.
- Fixed config parsing.

#### [2018-11-19] foliantcontrib.pgsqldoc 1.1.3

- Add tests; refactor code
- Fix triggers and functions; add description to functions
- Fix template

# [2018-11-16] foliantcontrib.templates.preprocessor 1.0.2

- Require foliantcontrib.init 1.0.7, import the output() method.
- Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.multiproject 1.0.8

- Do not rewrite source Markdown file if an error occurs in RepoLink preprocessor.

# [2018-11-16] foliantcontrib.macros 1.0.4

Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.includes 1.0.10

- Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.imgcaptions 1.0.1

Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.imagemagick 1.0.1

- Do not rewrite source Markdown file if an error occurs.

### [2018-11-16] foliantcontrib.flags 1.0.2

Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.epsconvert 1.0.5

Do not rewrite source Markdown file if an error occurs.

#### [2018-11-16] foliantcontrib.customids 1.0.5

Do not rewrite source Markdown file if an error occurs.

#### [2018-11-16] foliantcontrib.bindsympli 1.0.8

Do not rewrite source Markdown file if an error occurs.

# [2018-11-16] foliantcontrib.gupload 1.1.5

- Provide compatibility with Foliant 1.0.8.

### [2018-11-16] foliantcontrib.slate 1.0.4

- Provide compatibility with Foliant 1.0.8.
- Fix preprocessor: if error source won't be cleared.

# [2018-11-14] foliantcontrib.plantuml 1.0.5

- Do not rewrite source Markdown file if an error occurs.
- Use output() method and Foliant 1.0.8.

# [2018-11-14] foliantcontrib.blockdiag 1.0.4

- Do not rewrite source Markdown file if an error occurs.
- Use output() method and Foliant 1.0.8.

# [2018-11-14] foliantcontrib.mkdocs 1.0.7

- Provide compatibility with Foliant 1.0.8.

# [2018-11-14] foliantcontrib.pandoc 1.0.8

Provide compatibility with Foliant 1.0.8.

# [2018-11-14] foliantcontrib.init 1.0.7

- Provide compatibility with Foliant 1.0.8.

# [2018-11-14] foliant 1.0.8

- Restore quiet mode.
- Add the output() method for using in preprocessors.

# [2018-11-14] foliantcontrib.pandoc 1.0.7

- Provide compatibility with Foliant 1.0.7.

# [2018-11-14] foliantcontrib.mkdocs 1.0.6

- Provide compatibility with Foliant 1.0.7.

# [2018-11-14] foliant 1.0.7

- Remove spinner made with Halo.
- Abolish quiet mode because it is useless if extensions are allowed to write anything to STDOUT.
- Show full tracebacks in debug mode; write full tracebacks into logs.

# [2018-11-13] foliantcontrib.init 1.0.6

- Provide compatibility with Foliant 1.0.7.

# [2018-11-12] foliantcontrib.multilinetables 1.2.2

 Problem with deletion of table strings containing only spaces fixed (critical for lists in grid tables).

# [2018-11-09] foliantcontrib.subset 1.0.5

 Do not use yaml alias for oyaml module to prevent possible influence of this overriding on other parts of code.

# [2018-11-09] foliantcontrib.plantuml 1.0.4

- Additionally check if diagram image is not saved.

# [2018-11-09] foliantcontrib.blockdiag 1.0.3

 Do not fail the preprocessor if some diagrams contain errors. Write error messages into the log.

# [2018-11-08] foliantcontrib.slate 1.0.3

Add slate preprocessor which copies the images outside src into the slate project.

# [2018-11-08] foliantcontrib.testrail 1.0.7

Minor fixes.

# [2018-11-08] foliantcontrib.plantuml 1.0.3

- Add parse\_raw option.
- Do not fail the preprocessor if some diagrams contain errors. Write error messages into the log.

#### [2018-11-08] foliantcontrib.testrail 1.0.6

Added: parameters to exclude suite and section headers from the final document.

# [2018-11-07] foliantcontrib.testrail 1.0.5

Minor fixes.

# [2018-11-07] foliantcontrib.testrail 1.0.4

- Fixed: if there is only one suite in project, it's header not added to the contents.

# [2018-11-02] foliantcontrib.gupload 1.1.4

- Code refactored.

# [2018-11-01] foliantcontrib.templates.preprocessor 1.0.1

- Add package\_data to setup.py.

#### [2018-11-01] foliantcontrib.gupload 1.1.3

- Logger bug fixed.

# [2018-10-31] foliantcontrib.swaggerdoc 1.1.2

- Bug fixes
- All path parameters in config now accept either strings or !path strings

#### [2018-10-31] foliantcontrib.swaggerdoc 1.1.1

- Add "additional json path" param for jinja mode
- Add support for several json\_urls

# [2018-10-30] foliantcontrib.multilinetables 1.2.1

- Possibility to rewrite source files added.

# [2018-10-30] foliantcontrib.testrail 1.0.3

- Possibility to rewrite source file added.

#### [2018-10-29] foliantcontrib.bindsympli 1.0.7

 Use 60-seconds timeout instead of 30-seconds. Provide multiple attempts to open pages.

# [2018-10-29] foliantcontrib.testrail 1.0.2

Suites collecting fixed.

# [2018-10-29] foliantcontrib.multilinetables 1.2.0

Convertation th the grid format added for arbitrary cell' content (multiple paragraphs, code blocks, lists, etc.).

#### [2018-10-24] foliantcontrib.multiproject 1.0.7

 Allow to override the edit\_uri config option of RepoLink preprocessor with the FOLIANT\_REPOLINK\_EDIT\_URI system environment variable.

# [2018-10-23] foliantcontrib.multiproject 1.0.6

Tidy up CLI arguments.

#### [2018-10-23] foliantcontrib.subset 1.0.4

- Tidy up command line arguments one more time.

# [2018-10-23] foliantcontrib.subset 1.0.3

Tidy up command line arguments.

#### [2018-10-23] foliantcontrib.subset 1.0.2

- Fix a bug with object names.

#### [2018-10-22] foliantcontrib.subset 1.0.1

Parse YAML fairly. Merge config files recursively.

# [2018-10-19] foliantcontrib.swaggerdoc 1.1.0

- Change parameter names and behavior uncompatible with 1.0.0
- Add conversion to md with widdershins

# [2018-10-11] foliantcontrib.includes 1.0.9

- Don't crash on failed repo sync (i.e. when you're offline).

# [2018-10-11] foliantcontrib.mkdocs 1.0.5

- Require MkDocs 1.0.4.

### [2018-10-02] foliantcontrib.replace 1.0.1

- Strings with image links are ignored.

#### [2018-10-01] foliantcontrib.gupload 1.1.2

Convert to google docs format setting added.

#### [2018-09-25] foliantcontrib.gupload 1.1.1

Unification of repository name, settings section name, and command.

### [2018-09-25] foliantcontrib.gupload 1.1.0

Backend was converted to CLI extension.

#### [2018-09-25] foliantcontrib.multilinetables 1.1.3

- "targets" option added to the preprocessor settings.

#### [2018-09-21] foliantcontrib.slate 1.0.2

- Rename shards\_path param to shards. It now accepts string or list.
- Fix no header param.

#### [2018-09-20] foliantcontrib.slate 1.0.1

Remove flatten. First chapter goes to index.html.md; all the rest go into the includes.

# [2018-09-18] foliantcontrib.gupload 1.0.1

- Command line authentication was added, for example for Docker use.

# [2018-09-14] foliantcontrib.testrail 1.0.1

Preprocessor folder structure fixed.

#### [2018-09-12] foliantcontrib.bindsympli 1.0.6

 Do not disable images downloading. Use delays when filling email and password fields. Wait for idle network connections when loading pages.

# [2018-08-31] foliant 1.0.6

- CLI: If no args are provided, print help.
- Fix tags searching pattern in unescape preprocessor.

# [2018-08-29] foliantcontrib.pgsqldoc 1.1.2

- Queries are now ordered (not adjustable right now)
- Flexable filters instead of strict filtering by schema

# [2018-08-27] foliantcontrib.pgsqldoc 1.1.1

- Fix scheme template (blank lines issue)
- Refactor queries code

# [2018-08-24] foliantcontrib.multilinetables 1.1.2

- Now it's possible to break the text anywhere in multiline tables with custom tag.
- Fixed determination of columns number in tables with and without side lines.

## [2018-08-24] foliantcontrib.pgsqldoc 1.1.0

Docs and scheme structure is now defined by Jinja2 templates.

# [2018-08-22] foliantcontrib.multilinetables 1.1.1

 Bug with regular expression fixed. 3+ code strings with || operator in a row are not perceived as a tables now.

# [2018-08-22] foliantcontrib.multilinetables 1.1.0

Code strings with || operator are not perceived as a tables now.

#### [2018-07-31] foliantcontrib.bump 1.0.2

- Declare semver as dependency.

#### [2018-07-29] foliantcontrib.bump 1.0.1

Fix packaging with setup.py. Poetry doesn't quite do the trick ⊕

# [2018-07-28] foliantcontrib.bump 1.0.0

Initial release.

#### [2018-07-24] foliantcontrib.mkdocs 1.0.4

Provide customizable default names for untitled nested groups of chapters.

#### [2018-07-24] foliantcontrib.flatten 1.0.4

Skip empty headings of nested subsections.

#### [2018-07-23] foliantcontrib.includes 1.0.8

- Require at least one space after hashes in the beginning of each heading.
- Add inline option to the <include> tag.
- Fix the bug: do not ignore empty lines after headings when using sethead.
- Fix the bug: allow to use less than 3 characters in the heading content.
- Do not mark as headings the strings that contain more than 6 leading hashes. If shifted heading level is more than 6, mark the heading content as bold paragraph text, not as heading.

# [2018-06-08] foliantcontrib.multiproject 1.0.5

Provide Git submodules support.

# [2018-06-07] foliantcontrib.flatten 1.0.3

- Use flattened file path in includes preprocessor call.
- Require includes preprocessor 1.0.7.

#### [2018-06-06] foliantcontrib.includes 1.0.7

- Fix paths resolving in case of recursive processing of include statements.
- Allow revision markers in repo aliases.

# [2018-06-04] foliantcontrib.includes 1.0.6

- Fix logging in file search method.
- Fix top heading level calculation.

# [2018-06-04] foliantcontrib.multiproject 1.0.4

- Provide compatibility with Foliant 1.0.5. Allow to use multiple config files.

#### [2018-06-04] foliantcontrib.pandoc 1.0.6

 Apply flatten after all preprocessors, not before them. This fixes incompatibility with foliantcontrib.includes 1.0.5.

#### [2018-06-04] foliantcontrib.flatten 1.0.2

- Fix incorrect includes preprocessor call.
- Require Foliant 1.0.5.

# [2018-06-04] foliantcontrib.init 1.0.5

- Require Foliant 1.0.5 with prompt toolkit^2.0.0.

#### [2018-05-30] foliantcontrib.customids 1.0.4

Provide separate block-level HTML elements for the anchors. Allow to define custom stylesheets for these elements.

# [2018-05-25] foliantcontrib.includes 1.0.5

- Use paths that are relative to the current processed Markdown file.
- Fix sethead behavior for headings that contains hashes (#).

#### [2018-05-14] foliant 1.0.5

- Allow to override default config file name in CLI.
- Allow multiline tags. Process true and false attribute values as boolean, not as integer.
- Add tests.
- Improve code style.

# [2018-05-10] foliantcontrib.pandoc 1.0.5

- Add slug config option.

# [2018-05-08] foliantcontrib.multiproject 1.0.3

- Fix config loading. Other small fixes.

# [2018-04-25] foliantcontrib.multiproject 1.0.2

Fix bugs with the project directory path and Git repos syncronizing.

#### [2018-04-23] foliantcontrib.multiproject 1.0.1

- Fix logging.

#### [2018-04-20] foliantcontrib.bindsympli 1.0.5

Add logging.

#### [2018-04-20] foliantcontrib.plantuml 1.0.2

- Fix logging in \_\_init\_\_.

# [2018-04-20] foliantcontrib.plantuml 1.0.1

Add logging.

# [2018-04-20] foliantcontrib.flatten 1.0.1

- Fix incorrect includes preprocessor call.

- Add logging.
- Require Foliant 1.0.4.

# [2018-04-19] foliantcontrib.epsconvert 1.0.4

- Do not use image path when computing MD5 hash.
- Add targets config option.
- Add logging.

# [2018-04-19] foliantcontrib.templates.preprocessor 1.0.0

- Initial release.

# [2018-04-18] foliantcontrib.customids 1.0.3

- Add targets config option.
- Add logging.

# [2018-04-14] foliantcontrib.blockdiag 1.0.2

- Add logging.
- Require Foliant 1.0.4.

### [2018-04-14] foliantcontrib.pandoc 1.0.4

- Add logs.
- Update for Foliant 1.0.4: Pass logger to spinner.
- Require Foliant 1.0.4.

## [2018-04-14] foliantcontrib.mkdocs 1.0.3

- Add logs.
- Update for Foliant 1.0.4: Pass logger to spinner.
- Require Foliant 1.0.4.

#### [2018-04-14] foliantcontrib.init 1.0.4

- Replace placeholders in file and directory names.
- Process \*.py files.
- User Template strings instead of format strings for safer substitutions.
- Update for Foliant 1.0.4: Pass logger to spinner.
- Require Foliant 1.0.4.

# [2018-04-11] foliant 1.0.4

- Breaking change. Add logging to all stages of building a project. Config parser extensions, CLI extensions, backends, and preprocessors can now access self.logger and create child loggers with self.logger = self.logger .qetChild('newbackend').
- Add pre backend with pre target that applies the preprocessors from the config and returns a Foliant project that doesn't require any preprocessing.
- make now returns its result, which makes is easier to call it from extensions.

# [2018-04-10] foliantcontrib.bindsympli 1.0.4

Describe the preprocessor usage in README.md.

#### [2018-04-10] foliantcontrib.bindsympli 1.0.3

Eliminate external Perl scripts, rewrite the preprocessor code in Python.

### [2018-04-02] foliant 1.0.3

 Fix critical issue when config parsing would fail if any config value contained nonlatin characters.

#### [2018-04-01] foliantcontrib.includes 1.0.4

Fix the pattern for headings detection.

#### [2018-03-31] foliantcontrib.includes 1.0.3

Allow hashes ( # characters) in the content of headings.

#### [2018-03-29] foliantcontrib.epsconvert 1.0.3

- Take into account the content of image file when computing MD5 hash.

# [2018-03-29] foliantcontrib.epsconvert 1.0.2

- Add support of any local paths. Add image cache.
- Remove mogrify\_path and diagrams\_cache\_dir options, add convert\_path and cache\_dir instead.

# [2018-03-28] foliantcontrib.customids 1.0.2

- Process first heading and all other headings separately.

# [2018-03-27] foliantcontrib.customids 1.0.1

- Update README.md and docstrings.
- Update long description content type in setup.py

# [2018-03-27] foliantcontrib.bindsympli 1.0.2

Change the path for non-Python scripts once more.

#### [2018-03-27] foliantcontrib.bindsympli 1.0.1

Change the path for non-Python scripts.

# [2018-03-21] foliantcontrib.includes 1.0.2

Fix inappropriate translation of image URLs into local paths.

# [2018-03-21] foliantcontrib.mkdocs 1.0.2

- Add use\_headings and slug options for MkDocs backend.
- Fix inappropriate translation of image URLs into local paths in MkDocs preprocessor.

#### [2018-03-17] foliant 1.0.2

Use README.md as package description.

# [2018-03-13] foliantcontrib.epsconvert 1.0.1

- Add diagrams\_cache\_dir option support.

# [2018-02-28] foliantcontrib.pandoc 1.0.3

 Change Pandoc command line parameter --reference-docx to -reference-doc.

# [2018-02-25] foliant 1.0.1

Fix critical bug with CLI module caused by missing version definition in the root
 \_\_init\_\_.py file.

#### [2018-02-23] foliant 1.0.0

- Complete rewrite.

# [2018-02-16] foliantcontrib.blockdiag 1.0.1

Add pdf output format support.

#### [2018-02-07] foliantcontrib.init 1.0.3

- Upon creation, relative path to the created project directory is returned instead of an absolute one.
- Templates: basic: Foliant docs related content removed from README.md.
- Templates: basic: foliantcontrib.mkdocs added to requirements.txt.

# [2018-02-07] foliantcontrib.init 1.0.2

- Add slug placeholder.
- Process placeholders in .yml, .txt, and .md files, not just foliant.yml.
- Templates: basic: Add Dockerfile, docker-compose.yml, requirements.txt, and README.md.

#### [2018-02-07] foliantcontrib.init 1.0.1

- Fix issue with init command missing after installation.
- Fix issue with missing templates after installation.

# [2018-02-01] foliantcontrib.macros 1.0.3

– Add tag <m>...</m>.

#### [2018-01-17] foliantcontrib.macros 1.0.2

- Switch from unnamed to named parameters.
- Macro name is now defined in the tag body instead of "name" option.

#### [2018-01-15] foliantcontrib.macros 1.0.1

- Preserve param case.

#### [2018-01-06] foliantcontrib.flags 1.0.1

Add targets and backends options to <if> tag.

#### [2018-01-05] foliantcontrib.pandoc 1.0.2

Change default Markdown flavor from markdown\_strict to markdown.

#### [2017-12-17] foliantcontrib.pandoc 1.0.1

Add tex target.

### [2017-12-16] foliantcontrib.mkdocs 1.0.1

Add ghp target for GitHub Pages deploy with mkdocs gh-deploy.

# [2017-12-15] foliantcontrib.includes 1.0.1

Fix git repo name detection when the repo part contains full stops.