
Genja

Release 24.3

Gavin Wiggins

Mar 12, 2024

CONTENTS:

1	Getting started	3
1.1	Installation	3
1.2	Usage	3
2	Example	5
3	Indices and tables	7

Genja is a simple static site generator for GitHub Pages. It is a command line tool built in Python that generates HTML files and a JSON feed from Markdown content.

GETTING STARTED

Genja is distributed on [PyPI](#). Instructions for installing and using Genja are given below.

1.1 Installation

Download and install Python from <https://www.python.org> or from Anaconda at <https://www.anaconda.com>. After installing Python, create and activate a virtual environment as shown below:

```
python -m venv .venv
source .venv/bin/activate
```

Install the Genja package in your Python environment using pip:

```
pip install genja
```

Check the installed version from the command line:

```
genja --version
```

1.2 Usage

Before running genja, create a project structure as shown below. The **content** directory contains Markdown files that are used to generate HTML files. The **templates** directory contains [Jinja](#) templates that are used to render the HTML pages. The **docs** directory contains the built website which can be hosted with GitHub Pages. Lastly, the **config.json** defines the URLs and directories for the project.

```
myproject/
├── content/
├── templates/
├── docs/
└── config.json
```

The items in the **config.json** are shown below. The `base_url` is the URL for the homepage of the website. Markdown files that are parsed by Genja are located in the `input_dir` directory. The HTML files generated from Genja are located in the `output_dir` directory. Static content such as images and CSS files should go in the output directory.

```
{
  "base_url": "https://example.com/mywebsite",
```

(continues on next page)

(continued from previous page)

```
"input_dir": "content",  
"output_dir": "docs"  
}
```

Use the `serve` command to build the website and start a local server. This will automatically open the default web browser to view the website. The website will automatically reload when changes are saved to the Markdown files.

```
genja serve
```

Use the `build` command to build the website without running a local server.

```
genja build
```


EXAMPLE

A full example is available on [GitHub](#) in the Genja repository.

To run the example, go to the **example** directory in the repository. The **mdcontent** folder is the input directory containing the Markdown files. The **website** folder is the output directory containing the built HTML files. Use the commands shown below to build the website and run a local server to view the website in the default web browser. The website will automatically reload in the web browser when changes are saved to the Markdown files.

```
cd example
genja serve
```

Use the commands shown below to build the example website without starting a local server.

```
cd example
genja build
```


INDICES AND TABLES

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