

Take Full Control of Your Static Site Generation with Python

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GitHub URL:
<https://github.com/sunainapai/makesite>

Short URL:
<https://git.io/makesite>



makesite.py

Simple, lightweight, and magic-free static site/blog generator for Python developers.

Introduction

Take full control of your static website/blog generation by writing your own simple, lightweight, and magic-free static site generator in Python.

But Why?

For fun and profit! Okay, maybe not for profit, but hopefully for fun.

Have you used a popular static site generator like Jekyll to generate your blog? I have too. It is simple and great. But then did you yearn to use something even simpler to generate your blog? Perhaps the thought of writing your own static site generator crossed your mind but you thought it would be too much work? If you answered “yes” to these questions, then this project is for you.

With makesite.py, you are in full control. There is no hidden magic! There is no need to read any documentation to understand how it works. There is no need to learn how to write configuration files to produce some desired effect.

With makesite.py:

- The code is the documentation.
- The code is the configuration.

Everything is laid out as plain and simple Python code for you to read and enhance. It is less than 130 lines of code (excluding comments, docstrings, and blank lines). It gets you off the ground pretty quickly. You only need to execute `makesite.py`.

You can develop a decent website/blog within a few minutes. You can then tinker with the source code, the layout, and the stylesheet to customize the look and feel of your website to your satisfaction.

Features

- No magic!
- This is a starter kit, not a library or API.
- Easy to fork, modify, and make it your own.
- Supports multiple blogs.
- Generates RSS feeds.
- Supports Markdown (CommonMark) and HTML.
- Rudimentary placeholder-based templates.

Directory Structure

```
.
|-- makesite.py
|-- content
|   |-- _index.html
|   |-- about.html
|   |-- contact.html
|   |-- blog
|   |   |-- 2018-01-01-proin-quam.md
|   |   `-- 2018-01-03-sed-finibus.md
|   `-- news
|       |-- 2018-01-02-vivamus-purus.html
|       `-- 2018-01-04-mauris-tempor.html
|-- layout
|   |-- feed.xml
|   |-- item.html
|   |-- item.xml
|   |-- list.html
|   |-- page.html
|   `-- post.html
|-- static
|   `-- css
|       `-- style.css
`-- _site
```

The output (static website/blogs) is generated and written to the `_site` directory.

This above directory layout is only a default layout. You can support any directory layout you wish by modifying the paths in `makesite.py`.

Layout Template Example

```
<!DOCTYPE html>
<html>
  <head>
    <title>{{ title }}</title>
    <meta charset="UTF-8">
    <link rel="stylesheet"
          href="/css/style.css">
  </head>
  <body>
    <main>
      {{ content }}
    </main>
    <footer>
      <div>
        &copy; {{ current_year }}
        Lorem Ipsum
      </div>
    </footer>
  </body>
</html>
```

The project comes with a very simple placeholder-based template rendering system. The placeholders have the following syntax: `{{ KEY }}`.

Template placeholders are replaced with their values obtained from content file headers or keyword arguments to `make_pages()` or `make_list()` calls.

Content Example

```
<!-- title: Proin Quam -->
<!-- author: Alice -->
Proin quam urna, pulvinar id ipsum ac,
mattis consectetur ante. Praesent non
justo lectus. Duis egestas arcu libero,
quis laoreet dolor volutpat ut. Donec
facilisis orci sit amet sem blandit
elementum.
```

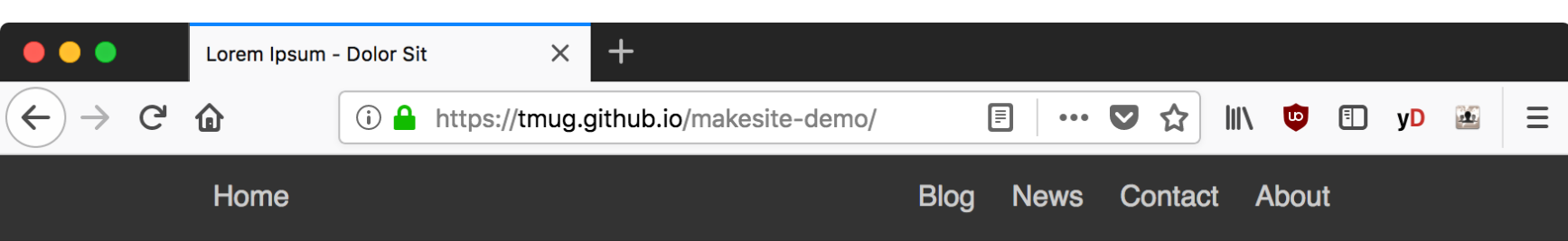
The HTML comments with key-value pairs at the top define values that populate placeholders with matching key names in templates.

Source Code Snippet

```
make_pages(
    'content/blog/*.md',
    '_site/blog/{{ slug }}/index.html',
    post_layout, blog='blog', **params)
```

The keyword arguments define key-value pairs that populate placeholders in templates.

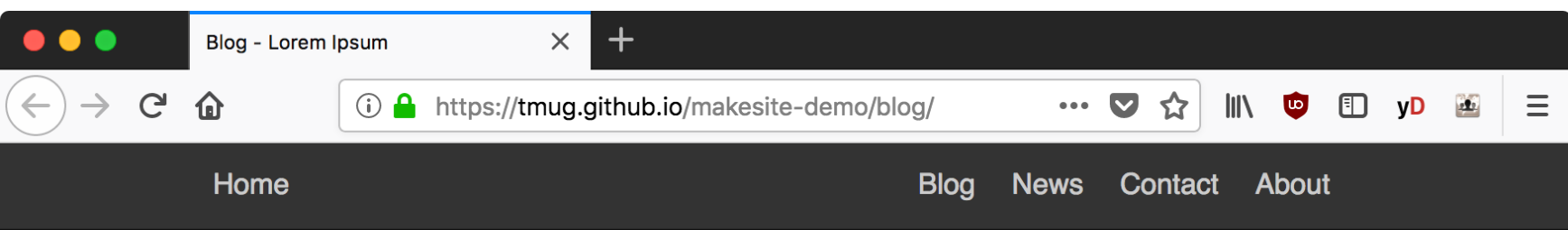
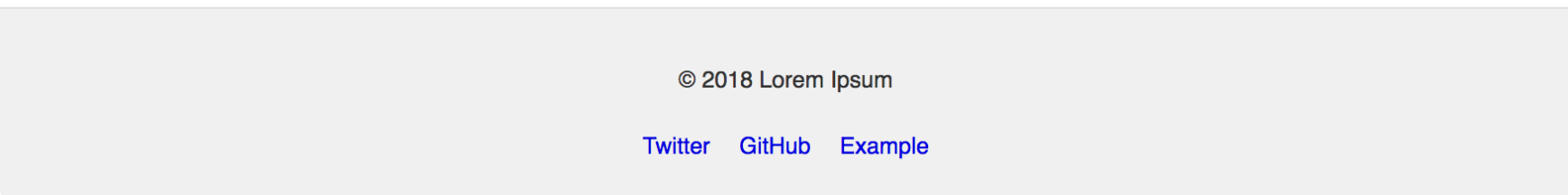
Demo Website and Blog



Lorem Ipsum

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Suspendisse vestibulum sed massa eu tincidunt. Pellentesque cursus, nisl at gravida suscipit, odio quam placerat mi, in iaculis nunc risus eu sapien. Suspendisse potenti. Nullam fermentum, tellus vel faucibus dictum, arcu ante rutrum nisl, ut iaculis eros felis a lectus. Etiam vel maximus nulla, sed mattis lectus. Aliquam commodo est massa, at vestibulum diam commodo vehicula. Nullam et tristique tortor. Praesent luctus, leo id mattis mattis, ex dui dapibus dolor, nec ultrices turpis nibh in sem. In efficitur, velit ut bibendum interdum, libero turpis mattis odio, non pharetra metus leo nec arcu.



Blog

Sed Finibus

Published on 2018-01-03 by Admin

Sed finibus fermentum convallis. Sed consequat, lacus a pellentesque suscipit, lorem libero egestas dui, sit amet volutpat mi dolor sit amet nisl. Maecenas faucibus iaculis ...

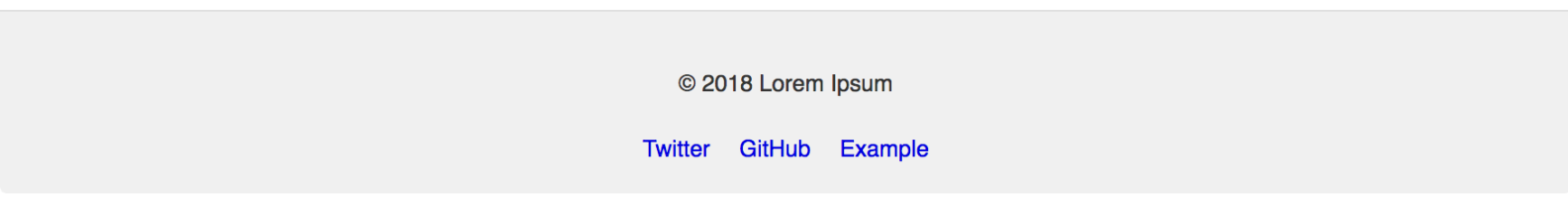
[Read More](#)

Proin Quam

Published on 2018-01-01 by Admin

Proin quam urna, pulvinar id ipsum ac, mattis consectetur ante. Praesent non justo lectus. Duis egestas arcu libero, quis laoreet dolor volutpat ut. Donec facilisis ...

[Read More](#)



Demo Short URL: <https://git.io/makesite-demo>

License

Licensed under the MIT License.

Go ahead and fork `makesite.py`, replace its content with yours, and generate your static website/blog.