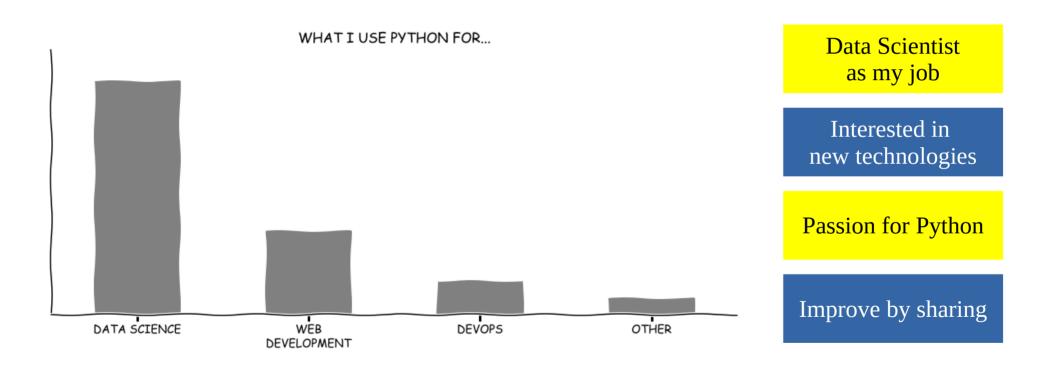
Build your static site with Python



Build your static site with Python PyCon Spain – Oct 6, 2018 Fernando Rabanal October 6, 2018

Who am I?



Why?

Why build a static site?









Maintenance

- Based in Python and Markdown
- Incremental builds
- CI/CD integration

Security

- Just plain HTML
- External dependencies for dynamic content

Obsolescence

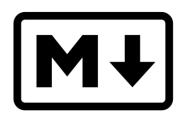
- Avoid urgent platform updates
- Technology changes are much smoother

Control

- Avoid lock-in
- Control your costs and performance
- Focus on the content







We love the language

Easy to use and maintain

Create tailored extensions

Pythonic philosophy

Easy

Portable

Fast

Flexible

Clean

Fits any workflow

Why Markdown? A two minute explanation

How?

Python-based common libraries

MkDocs



MkDocs

Pelican

https://www.mkdocs.org/

https://getnikola.com/

Nikola

https://blog.getpelican.com/

MkDocs

MkDocs is a fast, simple and downright gorgeous static site generator that's geared towards building project documentation.

Documentation source files are written in Markdown, and configured with a single YAML configuration file.

https://www.mkdocs.org/

- Made to aid project documentation.
- Easy to use, easy to deploy.

- Customize the appearance.
- Live previews of your work

MkDocs: create your site

1 Initialize the project

> mkdocs new pycon_mkdocs

```
INFO - Creating project directory: pycon_mkdocs
INFO - Writing config file: pycon_mkdocs/mkdocs.yml
INFO - Writing initial docs: pycon_mkdocs/docs/index.md
```

- Place .md files in docs folder
- Create HTML output

> mkdocs serve

MkDocs: site preview



Documentation built with MkDocs.

Nikola

Nikola is a static website and blog generator. The very short explanation is that it takes some texts you wrote, and uses them to create a folder full of HTML files.

If you upload that folder to a server, you will have a rather full-featured website, done with little effort.

https://getnikola.com/

- Support for automation.
- Themes and extensions available.

- Internacionalization support
- Support for blogs, static pages... a replacement for CMS

Nikola: create your site (I)

```
Creating Nikola Site
                                                                                                        > nikola init --demo pycon nikola
_____
This is Nikola v7.8.15. We will now ask you a few easy questions about your new site.
If you do not want to answer and want to go with the defaults instead, simply restart with the `-g` parameter.
--- Questions about the site ---
[Site title [My Nikola Site]: Python Hints
[Site author [Nikola Tesla]: pyconist
[Site author's e-mail [n.tesla@example.com]: me@example.com
Site description [This is a demo site for Nikola.]: This is a brand new place for your Python tricks.
[Site URL [https://example.com/]: https://
[Enable pretty URLs (/page/ instead of /page.html) that don't need web server configuration? [Y/n] Y
--- Questions about languages and locales ---
We will now ask you to provide the list of languages you want to use.
Please list all the desired languages, comma-separated, using ISO 639-1 codes. The first language will be used as the default.
Type '?' (a question mark, sans quotes) to list available languages.
[Language(s) to use [en]:
Please choose the correct time zone for your blog. Nikola uses the tz database.
You can find your time zone here:
https://en.wikipedia.org/wiki/List of tz database time zones
[Time zone [Europe/Madrid]:
    Current time in Europe/Madrid: 18:07:01
[Use this time zone? [Y/n]
--- Questions about comments ---
You can configure comments now. Type '?' (a question mark, sans quotes) to list available comment systems. If you do not want any comments, just leave the field blank.
[Comment system: ?
# Available comment systems:
# disqus, facebook, googleplus, intensedebate, isso, livefyre, muut
[Comment system:
That's it, Nikola is now configured. Make sure to edit conf.py to your liking.
If you are looking for themes and addons, check out https://themes.getnikola.com/ and https://plugins.getnikola.com/.
```

[2018-09-08T16:07:22Z] INFO: init: A new site with example data has been created at pycon nikola.

Have fun!

Nikola: create your site (II)

Place your files

Posts in **posts** folder

Static pages in pages folder

3 Create HTML output

> nikola build

4 Visualize in **127.0.0.1:8000**

> nikola serve

Nikola: site preview

Python Hints

Archive

RSS feed

This is my first page

pyconist - 2018-09-08 19:11

Enjoy it!

Contents © 2018 pyconist - Powered by Nikola

Pelican

I was previously using WordPress, a solution you can host on a web server to manage your blog. Most of the time, I prefer using markup languages such as Markdown or reStructuredText to type my articles.

Some history about Pelican

- Customizable, extensible.
- Many themes available in GitHub.
- Internacionalization support.

• Focus in blogs, with support for integration with other tools: WordPress, social networks...

This script will help you create a new Pelican-based website.

Please answer the following questions so this script can generate the files needed by Pelican.

```
> Where do you want to create your new web site? [.] ./pycon_pelican
> What will be the title of this web site? Python Hints
> Who will be the author of this web site? pvconist
> What will be the default language of this web site? [es] en
> Do you want to specify a URL prefix? e.g., http://example.com
                                                                 (Y/n) Y
> What is your URL prefix? (see above example; no trailing slash) https://
> Do you want to enable article pagination? (Y/n) Y
> How many articles per page do you want? [10]
> What is your time zone? [Europe/Paris]
> Do you want to generate a Fabfile/Makefile to automate generation and publishing? (Y/n) Y
> Do you want an auto-reload & simpleHTTP script to assist with theme and site development? (Y/n) Y
> Do you want to upload your website using FTP? (y/N) N
> Do you want to upload your website using SSH? (y/N) N
> Do you want to upload your website using Dropbox? (y/N) N
> Do you want to upload your website using S3? (y/N) N
> Do you want to upload your website using Rackspace Cloud Files? (y/N) N
> Do you want to upload your website using GitHub Pages? (y/N) N
Done. Your new project is available at /Users/macbook/Documents/pycon2018/pycon_pelican
```

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Pelican: create your site (II)

Place your files

Posts in content folder

Static pages in content/pages folder

3 Create HTML output

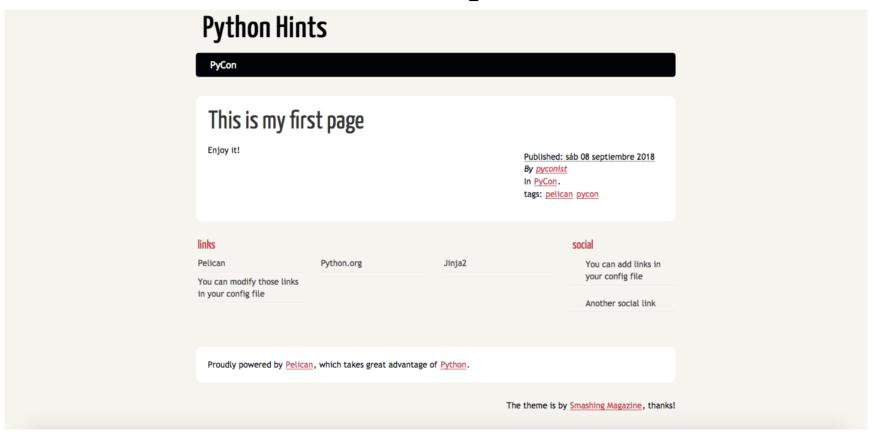
> pelican content

4 Visualize in **127.0.0.1:8000**

> cd output

> python -m pelican.server

Pelican: site preview



How can I deploy my site?

MkDocs

 Host your HTML files anywhere: your server, GitHub pages, Amazon S3...

Nikola

- Support for:
 - Automated deployment
 - GitHub
 - Integration with Travis CI

Pelican

- Support for:
 - FTP transfer
 - SSH transfer
 - Dropbox
 - S3
 - Rackspace Cloud Files
 - GitHub

What?

Shout out your story



Customize your experience

MkDocs

- Plain and simple.
- Forget about any complexity.
- Create, visualize, deploy.

Nikola

- Additional themes available.
- Not tailored only for blogs.
- Extend your web as you desire.
- Incremental builds.
- CI/CD integration

Pelican

- Themes and extensions available.
- Deploy almost everywhere automatically.
- Great option for blogs, many options available.
- Incremental builds.
- CI/CD integration.

Do not stop at static only!

MkDocs

- Embed code from external sources.
 - HTML blocks.

Nikola

- Integrated support:
 - Media
 - Youtube
 - Vimeo
 - Soundcloud
 - Code blocks
 - Gist
 - Thumbnail
 - Charts...

Pelican

- Integrated support:
 - Disqus
 - Twitter
 - Google Analytics...

... and many other via plugins!

Thank you for your attention!

https://github.com/frabanalpresa/pycon_es18



Build your static site with Python PyCon Spain – Oct 6, 2018 **Any questions?**

Acknowledgements and links



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https://blog.getpelican.com/



https://daringfireball.net/projects/markdown/