# Setting up a Website/Blog using Static site generators

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## 1 Static website generators

Recently I have begun to look again at static website generators for creating websites and blogs. Static Website Generation is not a new concept, I have used a number of Perl based ones in the past, but more recently they have seemed to get some energy as alternatives to a CSS and particularly as they suit documentation and publishing to some cloud services such as *github pages*. There is a number of them about and I am going to outline my thoughts and how to use them.

- Jeykll
- Hyde
- Pelican
- Nikola

# 2 Jeykll

Is a Ruby Static website generator, it seems quite favoured with github pages

# 3 Hyde

Is a Static website generator which uses python, similar to its alter ego Jeykll.

## 3.1 Install

The easiest way to install Hyde was to use easy\_install.

sudo easy\_install hyde

## 3.2 Create Hyde Project

mkdir hydesite
cd hydesite
hyde -s create

## 3.3 Generate Site and Run on Local Server

You then generate the static html, and you can view it by running the hyde server.

hyde gen hyde serve

## 4 Pelican

Is a Static website generator which uses python

#### 4.1 Installation

pip install pelican
pip install Markdown
mkdir mysite
cd mysite
pelican-quickstart

This uses pip to install pelican and markdown, pelican-quickstart sets up the plumbing of your pelican website.

The site is configured using settings.py (or pelicanconf.py). The layout is setout in the theme which is used, at the moment we will use one of the simple themes notforme. You can change a theme or modify it or compose your own by editing the css and templates for the theme.

#### 4.2 Adding Content

Here we will have two types of content on the website standard pages, and blog posts.

#### 4.2.1 Pages

Pages are stored in the pages directory in the content directory e.g. about.md, contact.md etc. they are traditional webpages and are not listed or timestamped with author or category information as Blog post or news item is.

Title: About

```
##This is About page
This is a blog generated by Pelican using Python...
```

(if you were just using it to generate a static website without any news items or blog you would just have the pages of the site here.

#### 4.2.2 Blogs

Any markdown page in the content directory which is in a directory other than pages is treated as a blog.

Date: 2015-1-9

Title: My First Blog Post

##this is my first blog post in pelican##
Here is the main text of my first blog post

The Date is the time the post will timestamped at, and you can have minutes as well, the Title is the title you will see and the

## 4.3 Generating the Website

pelican content/ -s settings.py

The site is then generated in the *output* directory.

# 5 Deploying/Publishing

## 5.1 Github Pages

Most of the newer static website generators are convienently setup for publishing ong github pages (username.github.io).

## 5.2 DropBox

You can also deploy to your Dropbox account.

## 5.3 FTP to a Host

You can just FTP the contents of the output directory to you host, the website should be generated to the domain and page of your host.

```
git add .
git commit -m "updates"
git push origin master
```

# 6 Nikola

Another static website generator.

## 7 Markdown

Since i have used Markdown for the above here is a few items from it

#### 7.1 Bold, Italics or Strikethrough

For empasis Bold or Italics are often used, and sometime text needs to have a line through it.

```
Italics uses *asterisks* or _underscores_ resulting in italicised

Bold uses **two asterisks** or _two underscores_ resulting in bolded

Strikerhough is achived by using two tildes(
) e.g.
```

2tildes

results a line through the text.

#### 7.2 Links

A link can be as simple, where just the URL is written

```
<http://www.gnu.org>
```

A piece of text can be set as a link to a URL

```
[Pelican] (http://blog.getpelican.com/)
```

You can add ALT text to it, in the case below Get Pelican would display when your mouse hovers over the link Pelican.

```
[Pelican](http://blog.getpelican.com/ "Get Pelican")
```

#### 7.3 Lists

#### 7.3.1 Unordered Lists

- + First Item
- + Second Item
- + Third Item

You can use + or \* to list

- \* First Item
- \* Second Item
- \* Third Item

#### 7.3.2 Ordered Lists

- 1 First Item
- 2 Second Item
- 3 Third Item

#### 7.4 tables

Α	В	Result	
		::	:
True	True	True	
True	False	False	
False	True	False	
False	False	False	

## 7.5 Inserting an Image

Inserting an image with markdown.

```
![Pelican](../../images/pelican.jpg)
```

In this case i have an image in a directory in the main file so to be accessed from a markdown file in the /content/pages/ directory you have to specify the page

## 8 Conclusion

To me the benefits of using a static website generator, are speed of a static website, no time delay due to interaction with a database or dynamic page generation, great power to customise the site with editing the themes and editing the css. It does take the compostion of content away from concerns of how it is displayed on the page. Also it does provide something different from the ubiqutious wordpress CMS websites which seem about. The negatives are that it does require some technical nous to set up, its graphical side may be limited to what is available and your own graphic knowhow, it doenst have the dynamic functionality which plugins provide for many CMS systems. Overall I like SSG and I think they are a powerful tool to generate a website.

# References

[1] A. Weckler, *Social Networking Tools*, Computers in Business: Sunday Business Post (September 2007), 8-11 available at http://www.thepost.ie.

# A Appendix 1

# A.1 sitemap.xml

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