

Building static websites with *Jekyll*

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Who am I?

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Jekyll is a simple
blog-aware
static site generator
written in Ruby.

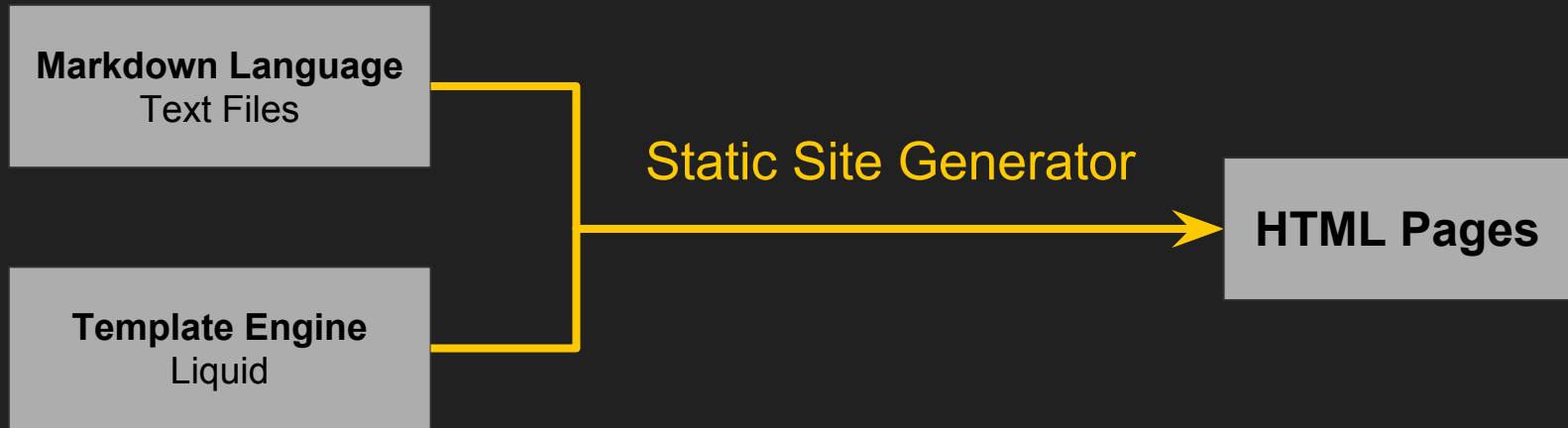
Why Jekyll?

- Simple:** No database, no updates
- Blog-aware:** Built in permalinks, categories, pages, posts & custom layouts
- Faster:** Pre-rendered pages
- Safer:** No database or server side exploitable code

When NOT to use Jekyll?

- **Database** is required
- **Complex back-end** tasks
- **No** intent on writing **markdown**

Static Site Generator



Installation

Needed Dependencies:

- Ruby with development headers
- Ruby gems

Run:

```
$ gem install jekyll
```

or

```
$ gem install github-pages
```

Themes

Grab a theme from:

- <http://jekyllthemes.io/>
- <http://jekyllthemes.org/>
- <http://themes.jekyllrc.org/>

Start from scratch using the command:

```
$ jekyll new project_name
```

I will use: Clean Blog

[\(http://blackrockdigital.github.io/startbootstrap-clean-blog-jekyll/\)](http://blackrockdigital.github.io/startbootstrap-clean-blog-jekyll/)

Let's look around Jekyll's **structure..**

Structure

<code>_site/:</code>	folder for your generated site -Generated on built
<code>_layouts/:</code>	folder containing your layouts
<code>_includes/:</code>	folder for partials -think HTML includes
<code>_post/:</code>	folder for your posts
<code>_config.yml:</code>	config file
<code>index.html:</code>	home page

Config.yml

Website's possible variables - Main configuration

- Title
- Url
- Baseurl
- Description
- Social media links
- Build options for Jekyll (e.x. port, ssl, exclude)

Posts

Post = Front matter + Markdown text

Front Matter

layout: post

title: 'My First Blog'

Optional info

- Permalink
- Published
- Category
- tags

Markdown

Lightweight Markup Language

&

Plain Text Formatting Syntax



designed to be converted to HTML (and other formats).

Markdown Example

Syntax		Preview
# Header	→	Header
An unordered list: - Item 1 - Item 2	→	An unordered list: • Item 1 • Item 2
bold	→	bold

Markdown Example

Syntax		Preview
<code>*italic*</code>		<i>italic</i>
<code>[A link to acm's website] (http://acm.web.auth.gr/)</code>		<u>A link to acm's website</u>
<code>```sh \$ gem install jekyll ```</code>		<code>\$ gem install jekyll</code>

Layouts

Liquid Templates  “Base” for each page

*Write pure HTML if there is
no need for the template
features

Liquid Basic

Tag	{% if user %}
Object	<p>Hello {{ user.name }} </p>
Tag	{% endif %}
Tag	{% include footer.html %}

Assets

- css/: folder for your **css** (SASS and LESS are also supported)
- js/: folder containing your **javascript** files
- assets/: folder for the **rest of the assets** (images, pdfs e.t.c.)

Running Locally

1. **Run** a jekyll server that tracks changes:

```
$ jekyll s -w
```

2. **Visit** <http://localhost:4000/>

Plugins

Run custom ruby code **without** having to modify **the Jekyll source** itself.

***Warning:**
Github allows **only specific plugins** for security reason.

If you must run a **custom plugin**
➔ build the site on computer, then upload.

Upload to Github

1. Create a **github repo**
2. **Upload** your Jekyll project
3. Navigate to **username.github.io/ProjectName**
(Don't forget to replace Username & ProjectName)

*More info about github-pages: <https://pages.github.com/>

Further reading

Liquid: <https://shopify.github.io/liquid/basics/introduction/>

Markdown: <https://guides.github.com/features/mastering-markdown/>

Config.yml options: <https://jekyllrb.com/docs/configuration/>

Github supported plugins: <https://pages.github.com/versions/>

Migrate from an existing cms: <http://import.jekyllrb.com/>

Sources

- <https://jekyllrb.com/>
- <https://wolfr.github.io/intro-to-jekyll>
- <http://jekyllbootstrap.com/api/jekyll-liquid-api.html>
- <http://code.tutsplus.com/articles/building-static-sites-with-jekyll--net-22211>
- <https://www.youtube.com/watch?v=iWowJBRMtpc>
- <https://en.wikipedia.org/wiki/Markdown>
- <http://whatismarkdown.com/>
- <https://www.sitepoint.com/wordpress-vs-jekyll-might-want-make-switch/>
- <http://cloudcannon.com/jekyll/2015/03/04/5-reasons-you-should-use-jekyll.html>

THANK YOU!

Slides: acm.web.auth.gr