## Static Sites with Middleman

# Part 1 Static Sites

## What are static sites?

HTML, CSS, & JS without a Web Application Server

## What are static site generators?

Tools for Programming Static Sites

## Why are they useful?

Benefits for Both Development & Deployment

## Development

- Templating
- Content Models
- Asset Pipeline
- Extensibility

## Deployment

- Simplicity
- Speed
- Caching
- Security

## When to use a static site generator?

Depends on the Content

## What about dynamic features?

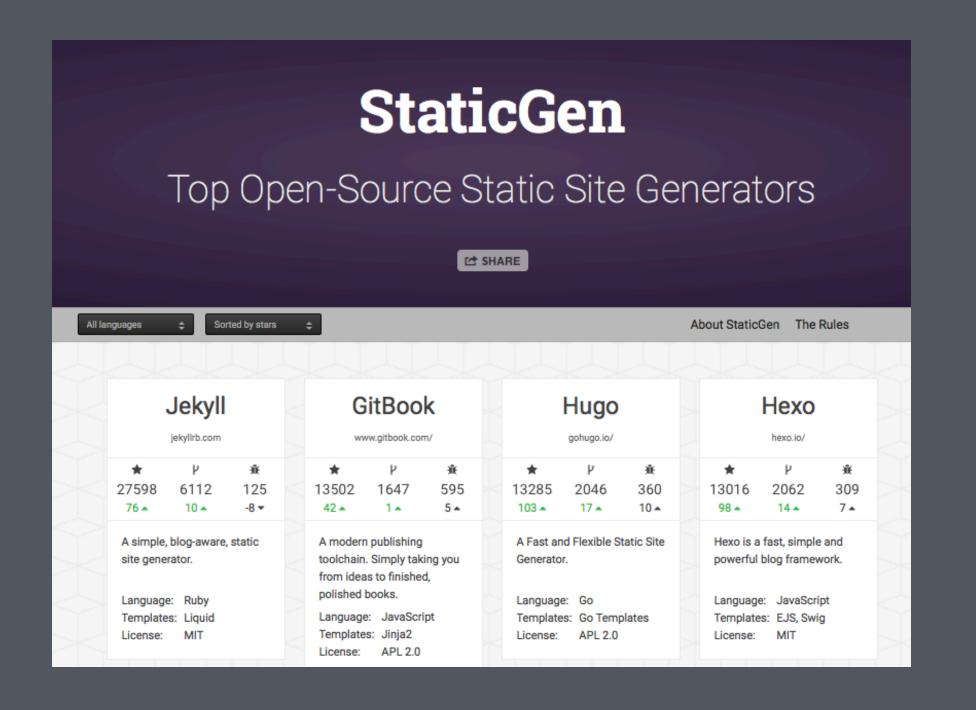
#### What are the problems?

- Less Mature Ecosystem than a CMS Like WordPress
- Not Designed for Non-Technical Users

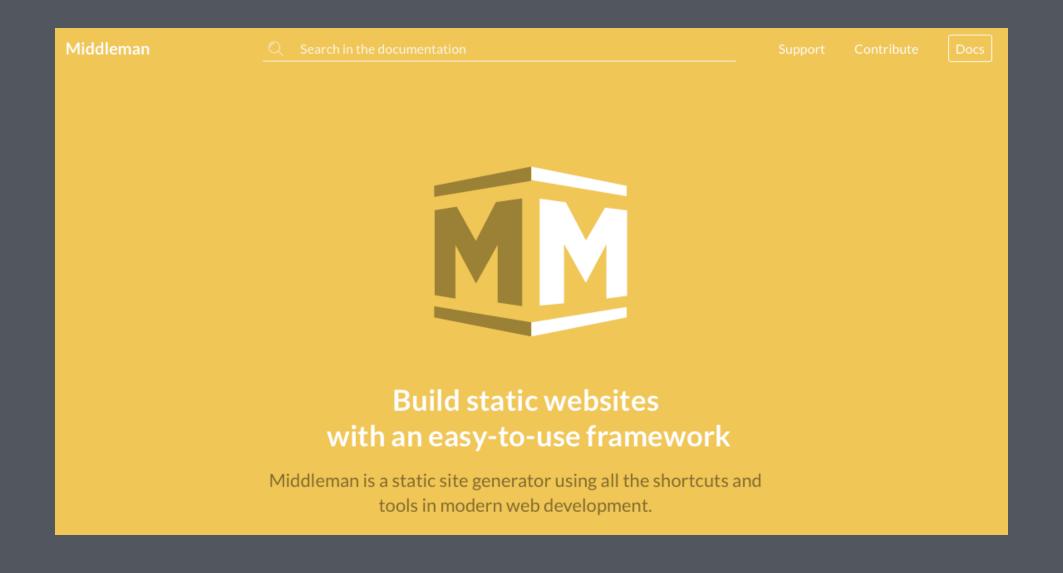
## Who is using static site generators?

- Google
- Vox Media
- MailChimp
- Sphero
- GitHub
- Carrot Roots
- Instrument Middleman

#### Static Site Generators



## Part 2 Middleman



#### Middleman

- Built with Ruby
- Templating Engine Ruby (ERb)
- Content Site Map Resource & Collections
- Asset Pipeline Sprockets or External Pipeline
- Extending Extensions Available

#### Development Cycle

```
$ middleman init NEW_MIDDLEMAN_PROJECT_NAME
OR middleman init NEW_MIDDLEMAN_BLOG_NAME --template=blog
$ middleman server
$ middleman console
$ middleman build
```

#### Directory Structure

```
mymiddlemansite/
+-- Gemfile
+-- Gemfile.lock
+-- config.rb
+-- build
+-- data
+-- lib
+-- source
    +-- images
       +-- background.png
       +-- middleman.png
    +-- index.html.erb
    +-- javascripts
    +-- all.js
    +-- layouts
      +-- layout.erb
    +-- stylesheets
       +-- all.css
       +-- normalize.css
```

## Templating

- 1. Layout & Partials
- 2. Ruby Mixed with HTML

### Ruby Code Mixed with HTML

- ERb Enables Ruby Directly Inside HTML
- Ruby Added Between the <% & %> Tags
- Code Inside the <%= %> Tags Substituted Into the Document

#### Layouts & Partials

- Layouts <%= yield %> to the Current Page Ex. index.html
- Partials Insert HTML Snippets Ex. <%= partial "nav" %>

## Example:

snsavage.com

snsavage.com Home About Contact

#### **Creating Placeholder Text**

July, 18 2016

Williamsburg DIY small batch, tousled bitters vice meh nesciunt neutra pabst. Ad tempor cold-pressed, quis tofu ethical cliche. Polaroid squid helvetica sartorial, jean shorts pariatur meggings. Proident readymade assumenda, kombucha yuccie portland...

Read more...

#### Why I Decided to Learn Software Development

May, 14 2016

My journey to the Learn Verified program and learning software development has really been a journey of many steps. I've always enjoyed using and learning about technology, so technology has alway been a part of my life. However, software development...

Read more...

#### Middleman Blog with GitHub Pages

February, 4 2016

Middleman is a static site generation framework with an available blog extension package. I've tried to set up a blog with Middleman in the past, but I've always had trouble with deploying to GitHub pages. To me it's not as straight forward as it should be, but I think with a few tips it can easily be done. Here are the steps that worked for me.

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#### Tags

- middleman (1)
- 2. github (1)
- 3. github pages (1)
- tutorial (1)

#### By Year

1. 2016 (3)

Home About Contact

Made in PA, U.S.A.





## source/layout.erb

```
<!doctype html>
<html>
 <head>
   <%= partial "head" %>
 </head>
 <body>
   <div id="container">
     <header>
       <%= partial "nav" %>
     </header>
     <main>
      <div id="main" role="main">
        <%= yield %>
       </div>
     </main>
      <footer>
       <%= partial "footer" %>
     </footer>
   </div>
 </body>
</html>
```

#### source/partials/\_nav.erb

```
<nav class="clearfix hidden-nav-menu">
 <h1>snsavage.com</h1>
 <h1 class="hidden-nav-trigger">
   <a href="#">
     <i class="fa fa-bars fa-lg" aria-hidden="true"></i></i>
   </a>
 </h1>
 <%= partial "nav links" %>
 </nav>
```

#### source/partials/\_nav\_links.erb

```
<%= link_to "Home", "/" %>
<%= link_to "About", "about.html" %>
<%= link_to "Contact", "contact.html" %>
```

#### build/index.html

```
<!doctype html>
<html>
<head>
</head>
<body>
 <div id="container">
   <header>
     <nav class="clearfix hidden-nav-menu">
        <h1>snsavage.com</h1>
        <h1 class="hidden-nav-trigger">
          <a href="#"><i class="fa fa-bars fa-lg" aria-hidden="true"></i></a>
        </h1>
        <a href="/">Home</a>
            <a href="/about.html">About</a>
            <a href="/contact.html">Contact</a>
        </nav>
   </header>
    . . .
```

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snsavage.com Home About Contact

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#### Generating Lists of Articles

## Titles Based on Page Content

```
<title>
    snsavage.com
    <%= ' - ' + current_article.title unless current_article.nil? %>
</title>
```

## Middleman Content Model

Pages, Frontmatter, & Local Data

#### Pages

- Add a New HTML File to Add Pages
- Adding the \*.erb Extension to Include Ruby
- Add a Blog Article with \$ middleman articles
   ARTICLE\_TITLE

#### Frontmatter Format

```
title: Middleman Blog with GitHub Pages author: Scott Savage date: 2016-02-04 02:40 UTC tags: middleman, github, github pages, tutorial published: true
```

#### Using Frontmatter Data

#### Local Data

- Stored in the data Directory
- Files in the .yml, .yaml, or .json Formats
- Accessed by the data Object

#### Helper Methods

#### Simplify Common HTML Tasks

- Links link\_to
- Tags tag, content\_tag
- Forms form\_tag, label\_tag, sumbit\_tag
- Formatting pluralize, word\_wrap, truncate

#### Middleman Asset Pipeline

- Rails Asset Pipeline (Sprockets) v3
- External Pipeline v4

#### Middleman Extensions

- middleman-blog Middleman Blogging Extension
- middleman-syntax Code Syntax Highlighting
- contentful\_middleman Contentful CMS API
- middleman-deploy Deploy Using sync, ftp, sftp, or git
- middleman-disqus Integrate Disqus Into Middleman

## Part 3 Example Workflow

snsavage.com Home About Portfolio Contact

#### The Making of RetroCasts

October 14, 2016

RetroCasts provides a command line utility (cli) for quickly accessing episode data from RailsCasts.com. It provides a quick and convenient way to search the site without leaving the terminal. This post discusses the process for making the RetroCasts gem. The first major project for the Flatiron School's Online Web Developer program is the "CLI Data Gem Project." So far the program has had several other larger projects, but this is the first project where a test suite is not provided as a framework.

Read more...

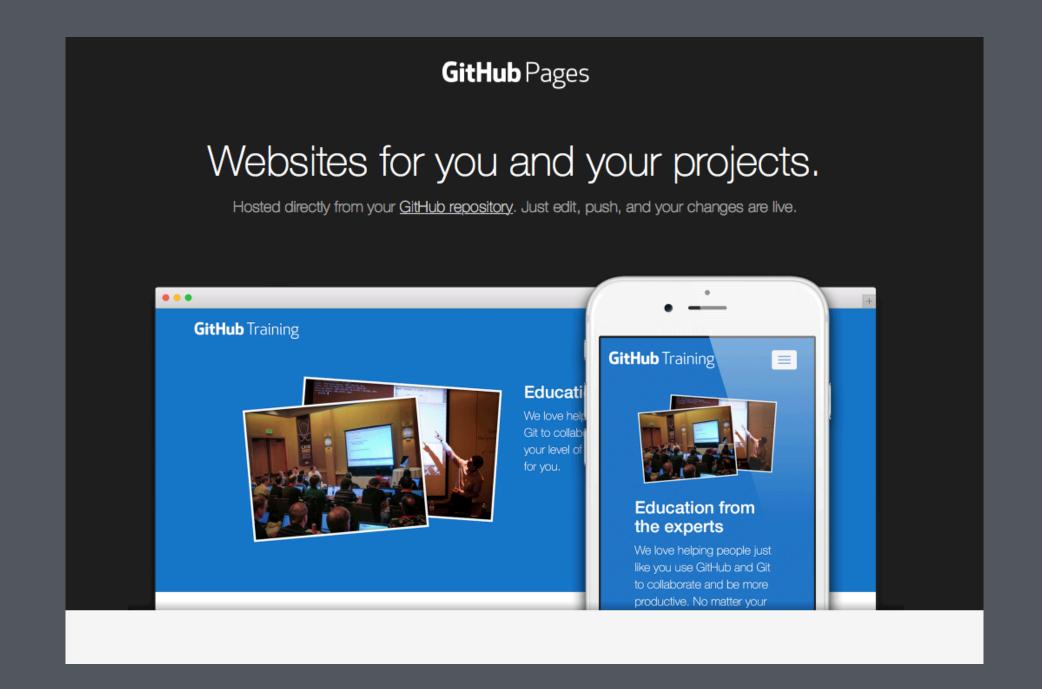
#### Static Sites with Middleman

August 26, 2016

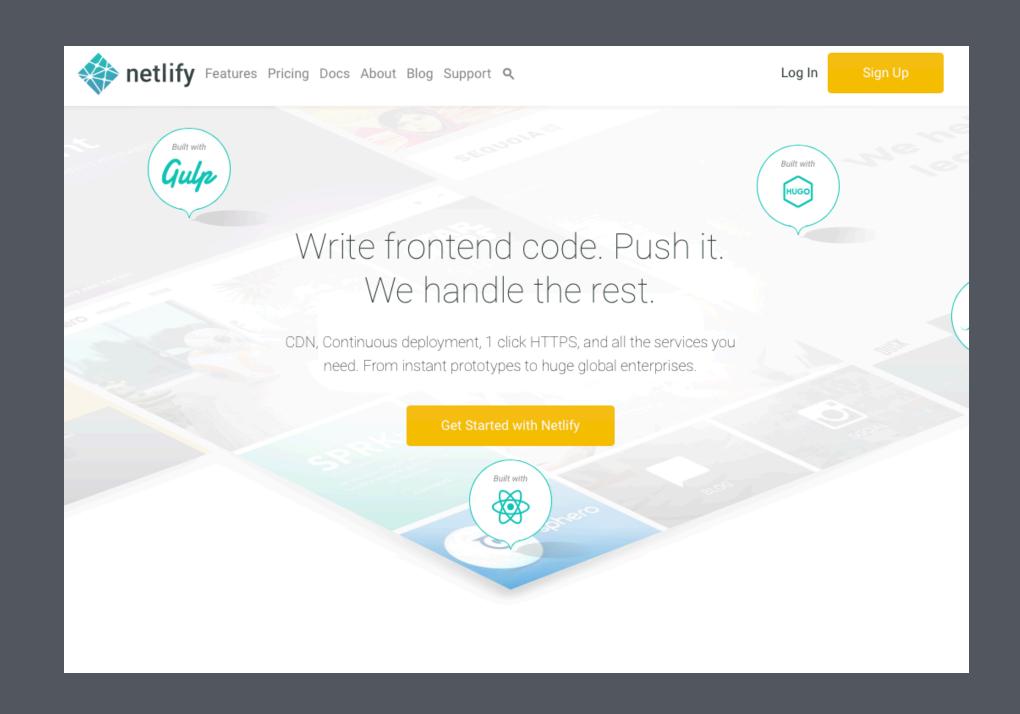
In August 2016 I gave a talk at the Lancaster Front-End Meetup about static web sites and the static site generator Middleman.

Read more...

## GitHub Pages

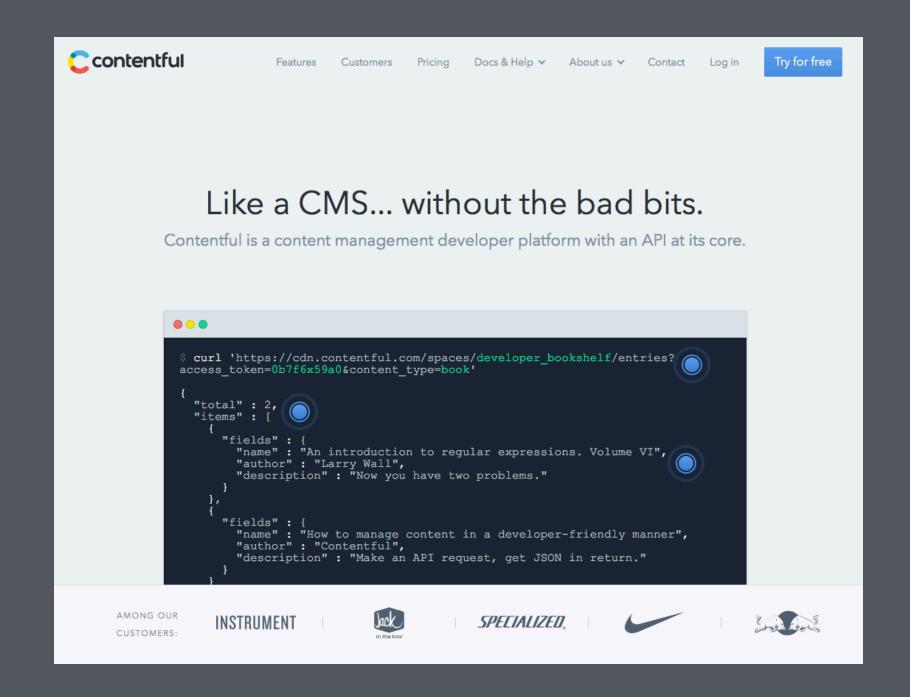


# Netlify



What if a website has non-technical users?

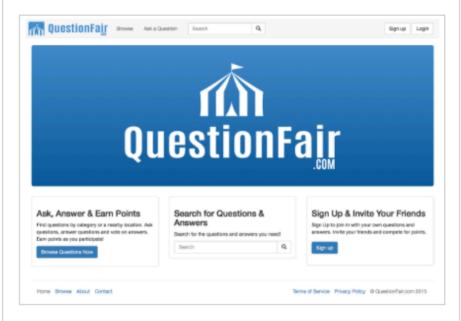
#### Contentful



#### snsavage.com/portfolio.html



#### QuestionFair.com



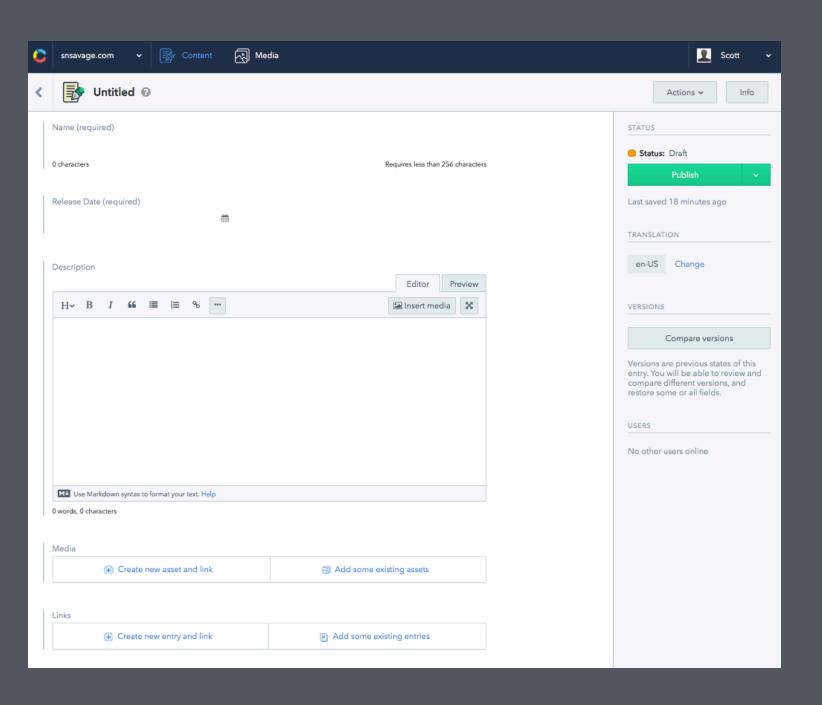
QuestionFair.com is a website for asking questions and getting answers. The website includes a few more advanced features including location tagging, points rewards and friendships with other users. The web app was created as a final academic project for completion of a Master's degree in Information Systems. QuestionFair was built using the Ruby on

#### RetroCasts

RetroCasts provides a command-line interface for access to metdata from RailsCasts.com. Features include episode lists, episode details, and search.

Find Out More: GitHub Article RubyGems

### Custom Contentful CMS



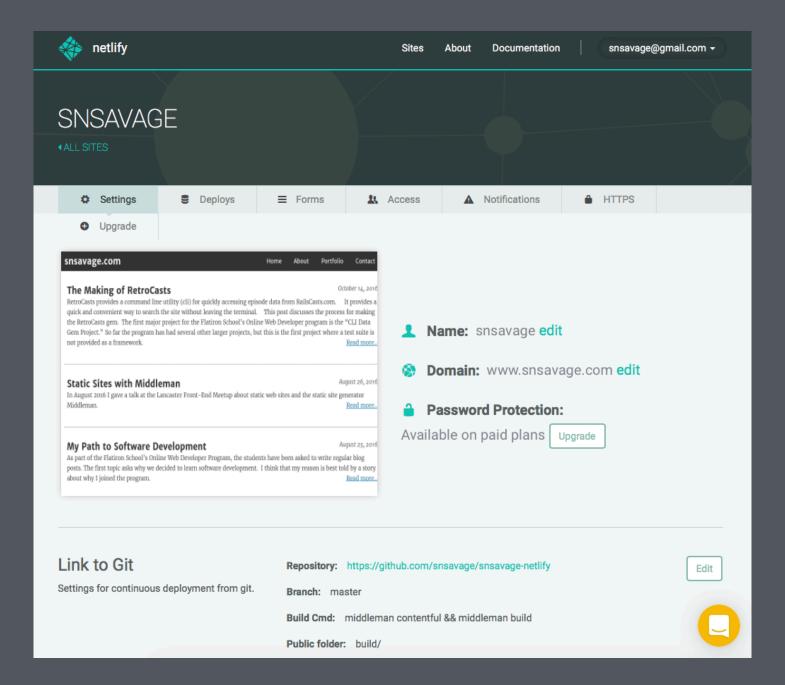
#### source/portfolio.html.erb

```
<div class="portfolio">
  <% data.portfolio.project.each do |id, project| %>
    <div class="project">
     <h2><%= project["name"] %></h2>
     <div class="project-description">
       <%= project["description"] %>
       <div class="project-links">
         <h4>Find Out More:</h4>
         <% if project.links %>
           <% project.links.each do |link| %>
             <%= link_to link.name, link.url %>
           <% end %>
         <% end %>
       </div>
     </div>
   </div>
 <% end %>
</div>
```

## Publishing New Content

- Clicking Publish in Contentful Calls Netlify Webhook
- Content is Updated with \$ middleman contentful

## Netlify Admin



#### Resources

- Middleman
- Smashing Magazine Why Static Website Generators Are The Next Big Thing
- Smashing Magazine Static Website Generators Reviewed
- Static Webtech Meetup Dynamic to Static
- Netlify
- Contenful
- YouTube Middleman External Pipeline + Gulp

#### About Me:

- E-Mail: snsavage@gmail.com
- Website: snsavage.com
- GitHub: github.com/snsavage



- Flatiron School
- learn.co/with/snsavage

Questions?