Simplifying Content Management Demo

☑ -1. Setup (for me only)

- Open slides in code
- Open demo in code
- Open terminal
- Check size of VS Code
- Open browser
  - http://localhost:3008
  - http://11ty.io
  - http://netlify.com
  - https://www.netlifycms.org/
  - https://github.com/pepopowitz/eleventy-netlify-cms/tree/fresh-start
- Left side: code; right side: browser
- Clicker

0. Initialization

☑ Already Done:

1. `npm init`
2. `git init`
3. .gitignore - `node_modules/` & `_site/`
4. Repo @ github set up
5. git remote added

Demo:

☑ **Create a new branch**

```
git checkout -b mkejs
```

☑ **Install 11ty as a dev dependency**

```
npm install --save-dev @11ty/eleventy
```

☑ **Add local development script**

./package.json (snippet: cms-0-0)

```
"scripts": {
  "start": "eleventy --serve"
}
```

☑ **Add index page**

./index.md (new) (snippet: cms-0-1)

```
# Spooooooooky Kitties
## They will melt your heart and eat your brains

Other things they will eat:

* Candy Corn
```

```
  * Dead Mice
  * Hot Pockets
```

✅ **Start local server**

```
npm start
```

✅ **Explain what 11ty is doing**

✅ Commit Work:

```
git add .
git commit —m "setup"
git push origin
```

---

1. Images

We need images!

Demo:

✅ **Add image to index**

./index.md (snippet: cms-1-0)

```
![Spoooky Kitty](/images/kitty—1.jpg)
```

✅ **View site in browser: no image is showing!**

✅ **View `/images/kitty—1.jpg` in browser: not found!**

✅ **View `/_site` in code: no images folder!**

✅ **Explain why image isn't showing up**

✅ **Add config to copy images through**

./.eleventy.js (new) (snippet: cms-1-1)

```
module.exports = function(eleventyConfig) {
  eleventyConfig.addPassthroughCopy("images");

  return {
    passthroughFileCopy: true
  };
};
```

✅ **View site - image!**

✅ Commit Work:

```
git add .
git commit —m "images"
git push origin
```

2. More Content

Let's add some more content!

Demo:

✅ **Add "about" page**

./about.md (snippet: cms-2-0)

```
# Abooooky Kitties

* They are spooky!
* They want to eat your brains!
* They also want to cudddle!
```

✅ **Add "blog index" page**

./blog/index.md (snippet: cms-2-1)

```
# Spooooooky Bloggy Kitties

They like to blog, and we'll put their posts here in the future.
```

✅ **Add "404" page**

./404.md (snippet: cms-2-2)

```
# Spoooooky Kitties
## Can't fiiiiind what you're looking foooooor

🐱 👺♀
🐱 👺♀
🐱 👺♀
```

✅ Commit Work:

```
git add .
git commit -m "more content"
git push origin
```

3. Netlify

Let's push this sucker live!

Demo:

✅ **Add build script**

./package.json (snippet: cms-3-0)

```
"scripts": {
  ...,
  "build": "eleventy"
}
```

✅ **push** it real good!

```
git add .
git commit -m "Netlify"
git push origin
```

✅ **Configure Netlify**

- Sign in
- Connect to Github
- Connect to repo
- Change name
- Check out build log

✅ **Check out live site!**

Note: 404 page doesn't "work"

✅ **Configure 404 page**

./404.md (snippet: cms-3-1)

```
---
permalink: 404.html
---
```

✅ **Confirm 404 shows for unknown url's**

Netlify serves 404.html for unknown url's by convention.

✅ Commit Work:

```
git add .
git commit -m "404s"
git push origin
```

---

4. Layouts

We need to output **meta** and a **common header**

We don't want to copy & paste

Demo:

✅ **Add a base layout**

./_includes/base.njk (snippet: cms-4-0)

```html
<!doctype html>
<html lang="en">
  <head>
    <title>Spooooky Kitties!</title>
  </head>
  <body style="text-align: center">
    {{ content }}
  </body>
</html>
```

✅ **Consume base layout**

./index.md

```
---
layout: base.njk
---
```

✅ **View site: Yuck!**

The HTML is encoded, so we actually see the source!

✅ **Add "safe" filter to base layout**

./_includes/base.njk

```
{{ content | safe }}
```

We told the base layout that it was safe to render the content as HTML.

✅ **Add title to layout**

./_includes/base.njk

```html
<title>...{{ title }}</title>
```

✅ **Add title to content pages**

./index.md, ./about.md, ./404.md, ./blog/index.md

```
---
title: XXXX
---
```

✅ **Add header**

./_includes/base.njk (snippet: cms-4-1)

```html
<header>
  <nav>
    <a href="/">Home</a>
    <a href="/about">About</a>
```

```html
    <a href="/blog">Blog</a>
  </nav>
</header>
```

✅ Commit Work:

```
git add .
git commit -m "layouts"
git push origin
```

We're going to publish blog posts

We want them to use a "blog" layout

which we want to inherit from our base layout

5. Nested Layouts

Demo:

✅ **Create blog posts**

./blog/post-X.md (snippet: cms-5-post-X)

```markdown
## Kittens are the best!

Especially when they are spoooooky.

![spooky kitty](/images/kitty-2.jpg)
```

...repeat 4x...

✅ **Add blog layout**

./_includes/blog.njk (snippet: cms-5-1)

```html
<h1>Blog!!!</h1>

{{ content | safe }}
```

✅ **Inherit from base**

./_includes/blog.njk

```
---
layout: base.njk
---
```

✅ Commit Work:

```
git add .
git commit -m "nested layouts"
git push origin
```

This site looks awful!

6. CSS

Demo:

✅ **Add CSS file**

./css/site.css (snippet: cms-6-0)

```css
body {
  background-color: black;
  color: orange;
}

a, a:visited, a:active {
  color: white;
}

img {
  width: 500px;
}

ul {
  display: inline-block;
}
```

✅ **Include css in layout**

./_includes/base.njk (snippet: cms-6-1)

```html
<html>
  <head>
    <!-- ... -->
    <link rel="stylesheet" type="text/css" href="/css/site.css" />
  </head>
  <body>
    <!-- ... -->
  </body>
</html>
```

✅ **View site: no styles!**

Why? What did we have to do with static images?

✅ **Pass CSS through**

./.eleventy.js

```js
module.exports = function(eleventyConfig) {
  // ...
  eleventyConfig.addPassthroughCopy("css");

  return { ... };
};
```

☑ Commit Work:

```
git add .
git commit -m "css"
git push origin
```

---

7. Collections

Our blog index should show all the blog posts.

How do we show a subset of content in another page?

Demo:

☑ **Add tags to posts**

./blog/post-X.md

```
---
tags: post
---
```

☑ **Convert blog/index.md to blog/index.njk**

So we can use nunjuck templating features to iterate the collection

./blog/index.njk (snippet: cms-7-0)

```
<h1>Spooooooky Bloggy Kitties</h1>

<div>
  <ul>
    {%- for post in collections.post -%}
      <li>
        <a href="{{post.url}}">{{post.data.title}}</a>
      </li>
    {%- endfor -%}
  </ul>
</div>
```

☑ **Specify order of posts**

Currently, they're ordered in order of file create/update

We should be more explicit.

./blog/post-X.md (snippet: cms-7-1)

```
---
date: 2018-01-01T00:00:00.000Z
---
```

☑ **Reverse order of posts**

We want them ordered REVERSE chronologically

./.eleventy.js (snippet: cms-7-2)

```javascript
module.exports = function(eleventyConfig) {
  // ...

  eleventyConfig.addCollection("postsReversed", collection => {
    return collection.getFilteredByTag("post").reverse();
  });

  return { ... };
};
```

✅ **Iterate custom collection**

./blog/index.njk

```
<div>
  <ul>
    {%- for post in collections.postsReversed -%}
    ...
    {%- endfor -%}
  </ul>
</div>
```

✅ Commit Work:

```
git add .
git commit -m "collections"
git push origin
```

---

8. Netlify Admin

This site is awesome for devs & people visiting the site!

It is not so awesome for non-technical content authors.

Let's add a "headless CMS" for them!

Demo:

✅ **View Netlify CMS website**

https://netlifycms.org

✅ **Add admin page**

./admin/index.html (snippet: cms-8-0)

```html
<!doctype html>
<html>
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Content Manager</title>
</head>
<body>
```

```html
    <!-- Include the script that builds the page and powers Netlify CMS -->
    <script src="https://unpkg.com/netlify-cms@^2.0.0/dist/netlify-cms.js"></script>
  </body>
</html>
```

☑ **Configure Netlify CMS**

./admin/config.yml (snippet: cms-8-1)

```yaml
backend:
  name: git-gateway
  branch: mkejs
media_folder: "images/uploads"
collections:
  - name: "blog" # Used in routes, e.g., /admin/collections/blog
    label: "Blog" # Used in the UI
    folder: "blog" # The path to the folder where the documents are stored
    create: true # Allow users to create new documents in this collection
    slug: "{{year}}-{{month}}-{{day}}-{{slug}}" # Filename template, e.g., YYYY-MM-DD-title.md
    fields: # The fields for each document, usually in front matter
      - {label: "Layout", name: "layout", widget: "hidden", default: "blog"}
      - {label: "tags", name: "tags", widget: "hidden", default: "post"}
      - {label: "Title", name: "title", widget: "string"}
      - {label: "Publish Date", name: "date", widget: "datetime"}
      - {label: "Body", name: "body", widget: "markdown"}
```

☑ **Pass `admin` folder through**

./.eleventy.js

```javascript
module.exports = function(eleventyConfig) {
  // ...
  addPassthroughCopy('admin');
  // ...

  return { ... };
};
```

☑ **Add Netlify identity widget**

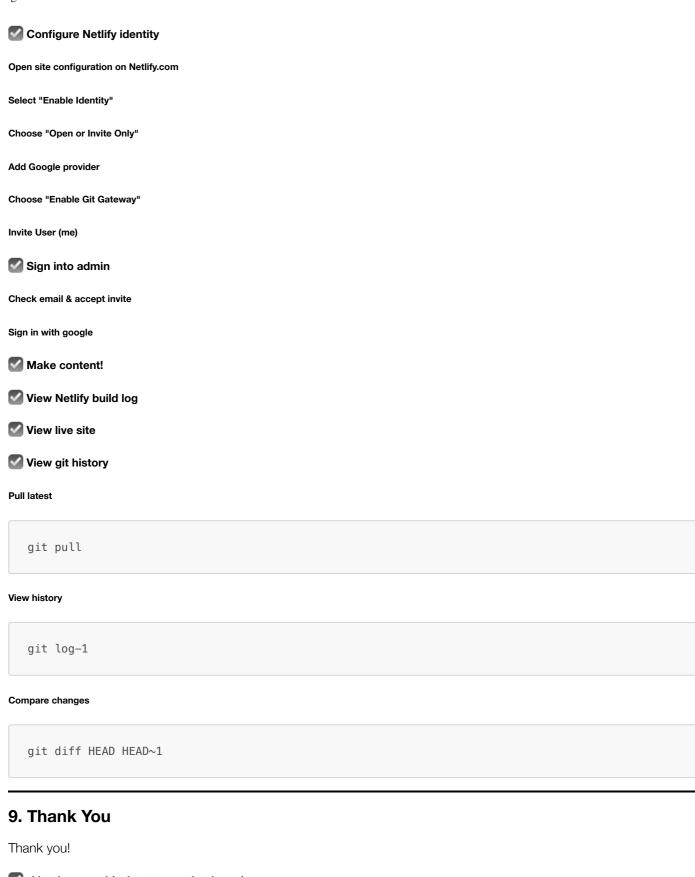**./admin/index.html (snippet: cms-8-2)**

./_includes/base.njk (snippet: cms-8-2)

```html
<head>
<script src="https://identity.netlify.com/v1/netlify-identity-widget.js"></script>
</head>
```

☑ **Commit Work:**

```
git add .
git commit -m "netlify cms"
git push origin
```

☑ **Configure Netlify identity**

Open site configuration on Netlify.com

Select "Enable Identity"

Choose "Open or Invite Only"

Add Google provider

Choose "Enable Git Gateway"

Invite User (me)

☑ **Sign into admin**

Check email & accept invite

Sign in with google

☑ **Make content!**

☑ **View Netlify build log**

☑ **View live site**

☑ **View git history**

Pull latest

```
git pull
```

View history

```
git log-1
```

Compare changes

```
git diff HEAD HEAD~1
```

---

9. Thank You

Thank you!

☑ **./thank-you.md (snippet: cms-thank-you)**

```
# THANK YOU!
## @pepopowitz
## steven.j.hicks@gmail.com
## stevenhicks.me/simplifying-content-management
```

☑ **Open preview**