

TEMPLATING

Eleventy's Superpower



Mike Aparicio
@peruvianidol



Google



Clear

Google Search

I'm Feeling Lucky

```
<html>
  <head>
    <title>Mike Aparicio</title>
  </head>
  <body>

    <div class="header">
      <h1><a href="/">Mike Aparicio</a></h1>

      <ul>
        <li><b><a href="/">Home</a></b></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </div>

    <div class="main">
      ...
    </div>

    <div class="footer">
      <p>&copy; 1999 All your rights are belong to us</p>
    </div>

  </body>
</html>
```



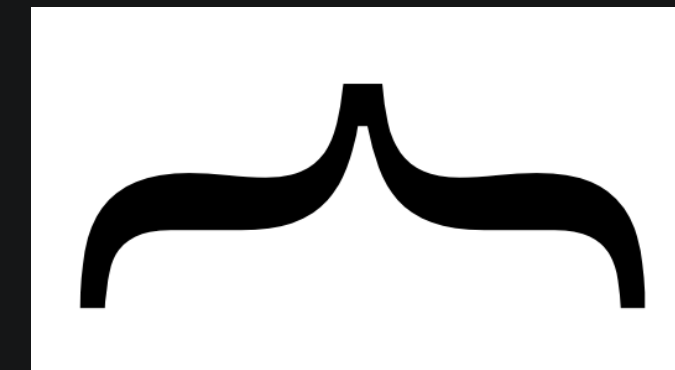

Markdown (2004)



Liquid (2006)



HAML (2006)



Mustache (2009)



Pug (2010)



EJS (2010)



Handlebars (2011)



Nunjucks (2012)

Objects/Variables

Data storage

```
{{ page.title }}
```

Tags

Iterate over/conditionally display data

```
{% if page.title %}
```

```
...
```

```
{% endif %}
```

```
{% for pages as page %}
```

```
...
```

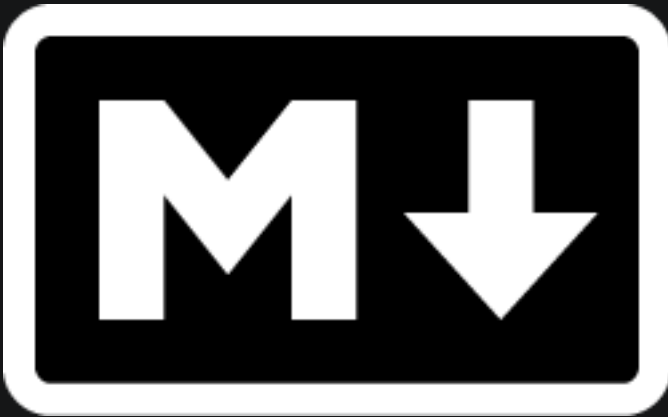
```
{% endfor %}
```

Filters

Apply functions to/manipulate data

```
{{ page.title | capitalize }}
```

Eleventy Template Languages



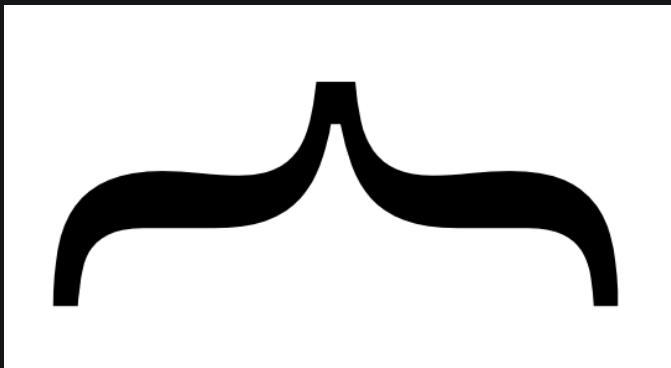
Markdown



Liquid



HAML



Mustache



JavaScript
(as `11ty.js`)



Pug



EJS



Handlebars



Nunjucks



HTML
(as anything!)

```
<html>
  <head>
    <title>Mike Aparicio</title>
    <meta name="description" content="An Eleventy demo site.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      ...
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```


- 📁 _site
- 📁 _src
 - 📁 _data
 - 📁 _includes
 - base.njk
 - 📁 assets
 - 📁 pages
- .eleventy.js
- .gitignore
- package.json
- README.md

```
<html>
  <head>
    <title>Mike Aparicio</title>
    <meta name="description" content="An Eleventy demo site.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      → {{ content | safe }}
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```

Front Matter

```
├── _site
├── _src
│   ├── _data
│   ├── _includes
│   │   ├── base.njk
│   │   ├── assets
│   │   └── pages
│   │       └── home.html
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md
```

layout: base

<p>Here's the content of our homepage.</p>

```
└─ _site
  └─ pages
    └─ home
      └─ index.html
  └─ _src
    └─ _data
    └─ _includes
    └─ base.njk
    └─ assets
    └─ pages
      └─ home.html
  .eleventy.js
  .gitignore
  package.json
  README.md
```

```
<html>
  <head>
    <title>Mike Aparicio</title>
    <meta name="description" content="An Eleventy demo site.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      <p>Here's the content of our homepage.</p>
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```

└─ _site
└─ _src
 └─ _data
 └─ _includes
 base.njk
 └─ assets
 └─ pages
 home.html
 .eleventy.js
 .gitignore
 package.json
 README.md



```
---  
layout: base  
permalink: /  
---  
  
<p>Here's the content of our homepage.</p>
```

Permalink

📁 _site
 index.html
 📁 _src
 📁 _data
 📁 _includes
 base.njk
 📁 assets
 📁 pages
 home.html
 .eleventy.js
 .gitignore
 package.json
 README.md

```
<html>
  <head>
    <title>Mike Aparicio</title>
    <meta name="description" content="An Eleventy demo site.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      <p>Here's the content of our homepage.</p>
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```

```
├── _site
├── _src
│   ├── _data
│   ├── _includes
│   ├── base.njk
│   ├── assets
│   └── pages
│       ├── about.html
│       └── home.html
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md
```

```
---
layout: base
permalink: /about/
title: "About"
---

<p>Here's the content of our About page.</p>
```

Directory Data

```
├── _site {
├── _src  "layout": "base",
│   ├── _data }
│   ├── _includes
│   ├── base.njk
│   ├── assets
│   └── pages
│       ├── about.html
│       ├── home.html
│       └── pages.json
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md
```

```
├── _site
├── _src
│   ├── _data
│   ├── _includes
│   │   ├── base.njk
│   │   ├── assets
│   │   └── pages
│   │       ├── about.html
│   │       ├── home.html
│   │       └── pages.json
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md
```

```
---
title: "About"
---

<p>Here's the content of our About page.</p>
```



```
└─ _site
  └─ about
    └─ index.html
  └─ _src
    └─ _data
    └─ _includes
    └─ base.njk
    └─ assets
    └─ pages
      └─ about.html
      └─ home.html
      └─ pages.json
  └─ .eleventy.js
  └─ .gitignore
  └─ package.json
  └─ README.md
```

```
<html>
  <head>
    <title>Mike Aparicio</title>
    <meta name="description" content="An Eleventy demo site.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      <p>Here's the content of our About page.</p>
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```

Global Data

```
├── _site      {
├── _src      "name": "Mike Aparicio",
│   └── _data "description": "An Eleventy demo site."
│       └── site.json
│   ├── _includes
│   ├── base.njk
│   ├── assets
│   └── pages
│       ├── about.html
│       ├── home.html
│       └── pages.json
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md
```

```

  <html>
    <head>
      <title>
        {{ site.name }}{% if title %} - {{ title }}{% endif %}
      </title>
      <meta name="description" content="
        {% if description %}
          {{ description }}
        {% else %}
          {{ site.description }}
        {% endif %}">
    </head>
    <body>
      ...
    </body>
  </html>

```

_site
_src
 _data
 site.json
 _includes
 base.njk
 assets
 pages
 about.html
 home.html
 pages.json
.eleventy.js
.gitignore
package.json
README.md

```

├── _site
├── _src
│   └── _data
│       ├── site.json
│       └── _includes
│           ├── base.njk
│           ├── assets
│           └── pages
│               ├── about.html
│               ├── home.html
│               └── pages.json
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md

```

title: "About"

description: "The About page."

<p>Here's the content of our About page.</p>

_site
 about
 index.html
_src
 _data
 site.json
 _includes
 base.njk
 assets
 pages
 about.html
 home.html
 pages.json
.eleventy.js
.gitignore
package.json
README.md

```
<html>
  <head>
    <title>Mike Aparicio - About</title>
    <meta name="description" content="The About page.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      <p>Here's the content of our About page.</p>
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```

Navigation

```

  {
    "items": [
      {
        "url": "/",
        "name": "Home"
      },
      {
        "url": "/about/",
        "name": "About"
      },
      {
        "url": "/blog/",
        "name": "Blog"
      }
    ]
  }

```

_site
 _src
 _data
 nav.json
 site.json
 _includes
 base.njk
 assets
 pages
 about.html
 home.html
 pages.json
 .eleventy.js
 .gitignore
 package.json
 README.md

- folder _site
- folder _src
 - folder _data
 - nav.json
 - site.json
 - folder _includes
 - base.njk
 - folder assets
 - folder pages
 - about.html
 - home.html
 - pages.json
- .eleventy.js
- .gitignore
- package.json
- README.md

```
<html>
  <head>
    ...
  </head>
  <body>
    <header>
      <h1>{{ site.name }}</h1>
    </header>
    <nav>
      <ul>
        {% for item in nav.items %}
          <li><a href="{{ item.url }}"
            {% if item.url == page.url %}
              aria-current="page" data-state="active"
            {% endif %}
            >{{ item.name }}</a>
          </li>
        {% endfor %}
      </ul>
    </nav>
    ...
  </body>
</html>
```

_site
 about
 index.html
_src
 _data
 nav.json
 site.json
 _includes
 base.njk
 assets
 pages
 about.html
 home.html
 pages.json
.eleventy.js
.gitignore
package.json
README.md

```
<html>
  <head>
    <title>Mike Aparicio - About</title>
    <meta name="description" content="The About page.">
  </head>
  <body>
    <header>
      <h1><a href="/">Mike Aparicio</a></h1>
    </header>
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html" aria-current="page" data-state="active">About</a></li>
        <li><a href="/blog.html">Blog</a></li>
      </ul>
    </nav>

    <main>
      <p>Here's the content of our About page.</p>
    </main>

    <footer>
      <p>&copy; 2021 All your rights are belong to us</p>
    </footer>
  </body>
</html>
```




**Me still trying to
process 2020**

2022 in 5 months

Shortcodes

```
module.exports = function(eleventyConfig) {  
    eleventyConfig.addShortcode("year", () =>  
        `${new Date().getFullYear()}`  
    );  
};  
  
_site  
_src  
  _data  
  nav.json  
  site.json  
  _includes  
  base.njk  
  assets  
  pages  
  about.html  
  home.html  
  pages.json  
.eleventy.js  
.gitignore  
package.json  
README.md
```

_site
_src
_data
nav.json
site.json
_includes
base.njk
assets
pages
about.html
home.html
pages.json
.eleventy.js
.gitignore
package.json
README.md

```
<html>  
  <head>  
    ...  
  </head>  
  <body>  
    <header>  
      <h1><a href="/">{{ site.name }}</a></h1>  
    </header>  
    <nav>  
      <ul>  
        {% for item in nav.items %}  
          ...  
        {% endfor %}  
      </ul>  
    </nav>  
  
    <main>  
      {{ content | safe }}  
    </main>  
  
    <footer>  
      <p>&copy; {{ year }} All your rights are belong to us</p>  
    </footer>  
  
  </body>  
</html>
```

- 📁 _site
- 📁 _src
 - 📁 _data
 - 📁 _includes
 - 📁 assets
 - 📁 blog
 - first-entry.md
 - 📁 pages
- .eleventy.js
- .gitignore
- package.json
- README.md

```
---  
title: "Blog Entry #1"  
layout: base  
permalink: /blog/{{ title | slug }}/   
description: "This is my first blog post."  
---
```

```
## {{ title }}
```

Lorem ipsum dolor sit ****amet consectetur**** adipisicing elit. Voluptatibus facilis reiciendis dolores molestias, perferendis dolore odio, quia ratione aliquam vero quo praesentium! Ut quo, [fugiat maiores](https://11ty.dev) ipsum voluptate commodi neque!

- Markdown
- Liquid
- HAML
- Mustache
- Pug
- EJS
- Handlebars
- Nunjucks

Lorem ipsum dolor sit amet consectetur adipisicing elit. Architecto ullam officiis sit quo reprehenderit expedita, inventore enim cum consectetur?

Collections

```

├── _site
├── _src
│   ├── _data
│   ├── _includes
│   ├── assets
│   └── blog
│       ├── blog.json
│       └── first-entry.md
├── pages
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md

```

```
{
  "layout": "blog",
  "permalink": "/blog/{{ title | slug }}/",
  "tags": "posts"
}
```

Layout Chaining

```

├── _site
├── _src
│   ├── _data
│   ├── _includes
│   │   ├── base.njk
│   │   └── blog.njk
│   ├── assets
│   ├── blog
│   │   ├── blog.json
│   │   └── first-entry.md
│   └── pages
├── .eleventy.js
├── .gitignore
├── package.json
└── README.md

---
layout: base
---
```

- 📁 _site
- 📁 _src
 - 📁 _data
 - 📁 _includes
 - base.njk
 - blog.njk
 - 📁 assets
 - 📁 blog
 - blog.json
 - first-entry.md
 - second-entry.md
 - third-entry.md
 - 📁 pages
- .eleventy.js
- .gitignore
- package.json
- README.md

```
---  
title: "Blog Entry #3"  
description: "This is my third blog post."  
---
```

```
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cumque animi delectus  
laboriosam, dicta exercitationem magni vel hic perferendis consequuntur nisi,  
quasi ut commodi corrupti praesentium ad consequatur at! Dignissimos, nam?
```

```

  _site
  _src
    _data
    _includes
    assets
    blog
    pages
      about.html
      blog.html
      home.html
      pages.json
  .eleventy.js
  .gitignore
  package.json
  README.md
  ---
  title: "Blog"
  description: "The Blog page."
  ---
  <ul>
  {% for post in collections.posts %}
    <li><a href="{{ post.url }}">{{ post.data.title }}</a></li>
  {% endfor %}
  </ul>
```


_site
 blog
 index.html
 _src
 _data
 _includes
 assets
 blog
 pages
 about.html
 blog.html
 home.html
 pages.json
 .eleventy.js
 .gitignore
 package.json
 README.md

```
<html>
  <head>
    <title>Mike Aparicio - Blog</title>
    <meta name="description" content="The Blog page.">
  </head>
  <body>
    ...
    <nav>
      <ul>
        <li><a href="/">Home</a></li>
        <li><a href="/about.html">About</a></li>
        <li><a href="/blog.html" aria-current="page" data-state="active">Blog</a></li>
      </ul>
    </nav>
    <main>
      <h2>Blog</h2>
      <ul>
        <li><a href="/blog/blog-entry-1">Blog Entry #1</a></li>
        <li><a href="/blog/blog-entry-2">Blog Entry #2</a></li>
        <li><a href="/blog/blog-entry-3">Blog Entry #3</a></li>
      </ul>
    </main>
    ...
  </body>
</html>
```

An Incomplete List of Headless CMSs

Agility CMS

Bloomreach

Bold (Quintype)

Butter CMS

Cockpit CMS

Contentful*

Contentstack

Core dna

CoreMedia Content Cloud

Cosmic JS

Craft CMS*

Crownpeak

Dato CMS

Directus

DNN Evoq Content

dotCMS

Episerver

eZ Platform

FirstSpirit (e-Spirit)

GraphCMS

Ingeniux CMS

Kontent.ai (Kentico)

Liferay

Magnolia CMS

Mura

Netlify CMS*

Prismic.io*

Sanity*

Scrivito

Sitecore

Sitefinity

Solodev

Strapi*

Zesty.io

* services Mike actually heard of before preparing this talk, fwiw

THANK YOU!

Eleventy Resources

[11ty.dev](#)

[11ty.recipes](#)

[11ty.rocks](#)

piccalil.li/course/learn-eleventy-from-scratch/

github.com/peruvianidol/11ty-starter

Slides

idol.pe/template-talk

Code

github.com/peruvianidol/template-talk



Mike Aparicio

[@peruvianidol](#)

mikeaparicio.com