

Advanced Front-end Coding

Week 1 - An experiment with 11ty

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Up-front

Up-front

- Advanced Front-end Coding (AFEC) is an open space for experimentation
- Don't worry about the exam: there is none ;-)
- I will evaluate both your process and your work
- Even if the work has not been a 100% success, the process might have been interesting
- Make sure you've had an interesting process, and perhaps also a few interesting little experiments...
- ... and we are cool ;-)
- Please don't give up!

"Required" knowledge

- HTML, CSS
- Basics of JavaScript
- Basics of Node (<https://nodejs.org>)
- Basics of GitHub (<https://github.com>)
- Basics of working with the terminal
- Basics to writing Markdown (<https://www.markdownguide.org/>)

(Again, don't worry. No matter what your level of expertise, we'll find something for you to do)

Perseverance

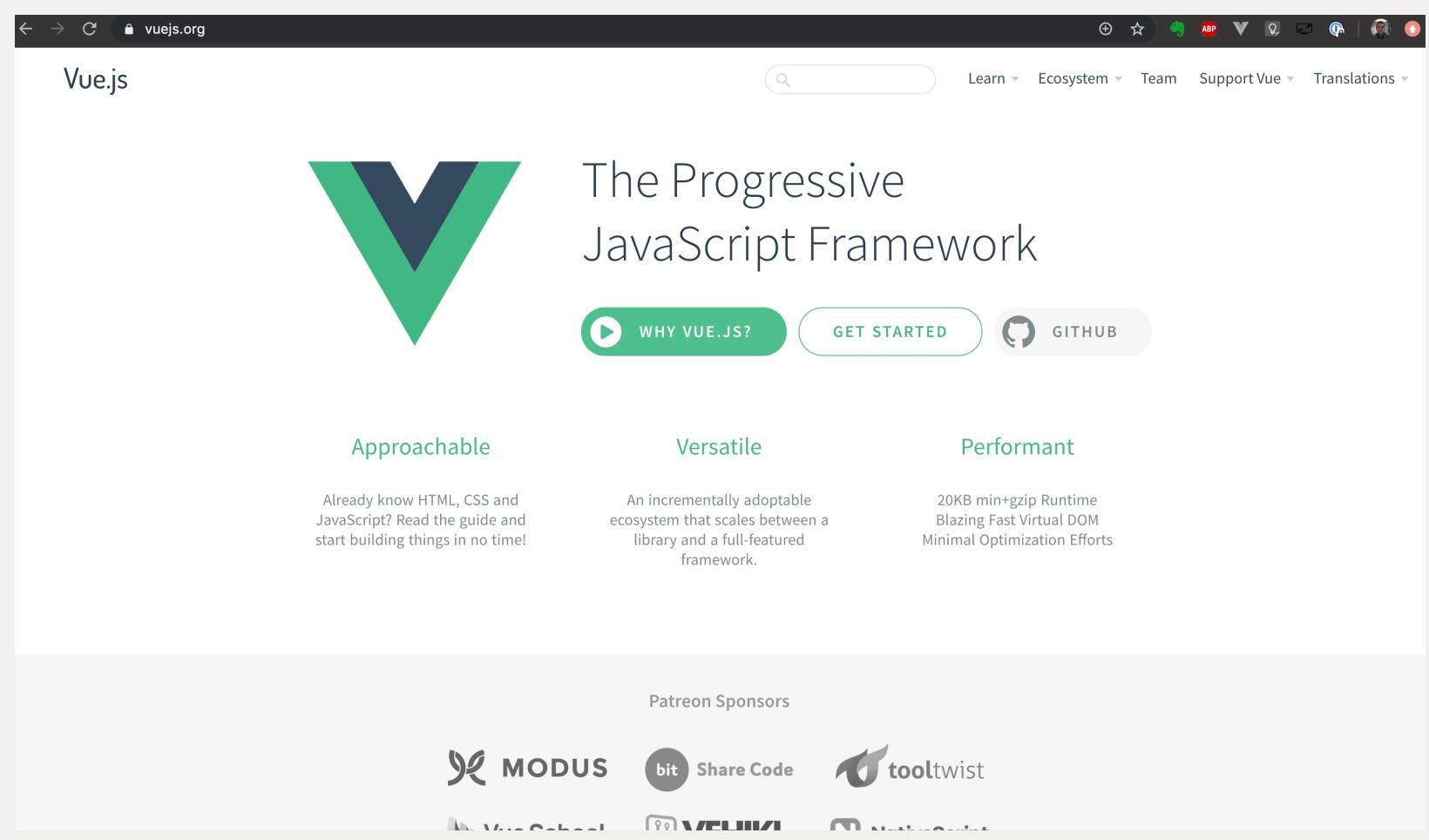


Topics we'll dive into

Topics this year

- Static Site Generators (between plain HTML and WordPress ;-))
- Front-end Frameworks: Vue.js
- Frameworkless development
- Freedom to explore everything front-end

For a sneak peak into vue.js



The screenshot shows the official Vue.js website at vuejs.org. The page features the large green and dark blue 'V' logo on the left. To the right of the logo, the text 'The Progressive JavaScript Framework' is displayed. Below the logo are three buttons: 'WHY VUE.JS?' (green), 'GET STARTED' (white), and 'GITHUB' (grey). The page is divided into three main sections: 'Approachable', 'Versatile', and 'Performant', each with a brief description. At the bottom, there is a 'Patreon Sponsors' section with logos for Modus, Share Code, and tooltwist, along with other smaller logos for Vue School, VUE.JS, and Vue.js Weekly.

Vue.js

Learn Ecosystem Team Support Vue Translations

The Progressive JavaScript Framework

WHY VUE.JS? GET STARTED GITHUB

Approachable

Already know HTML, CSS and JavaScript? Read the guide and start building things in no time!

Versatile

An incrementally adoptable ecosystem that scales between a library and a full-featured framework.

Performant

20KB min+gzip Runtime
Blazing Fast Virtual DOM
Minimal Optimization Efforts

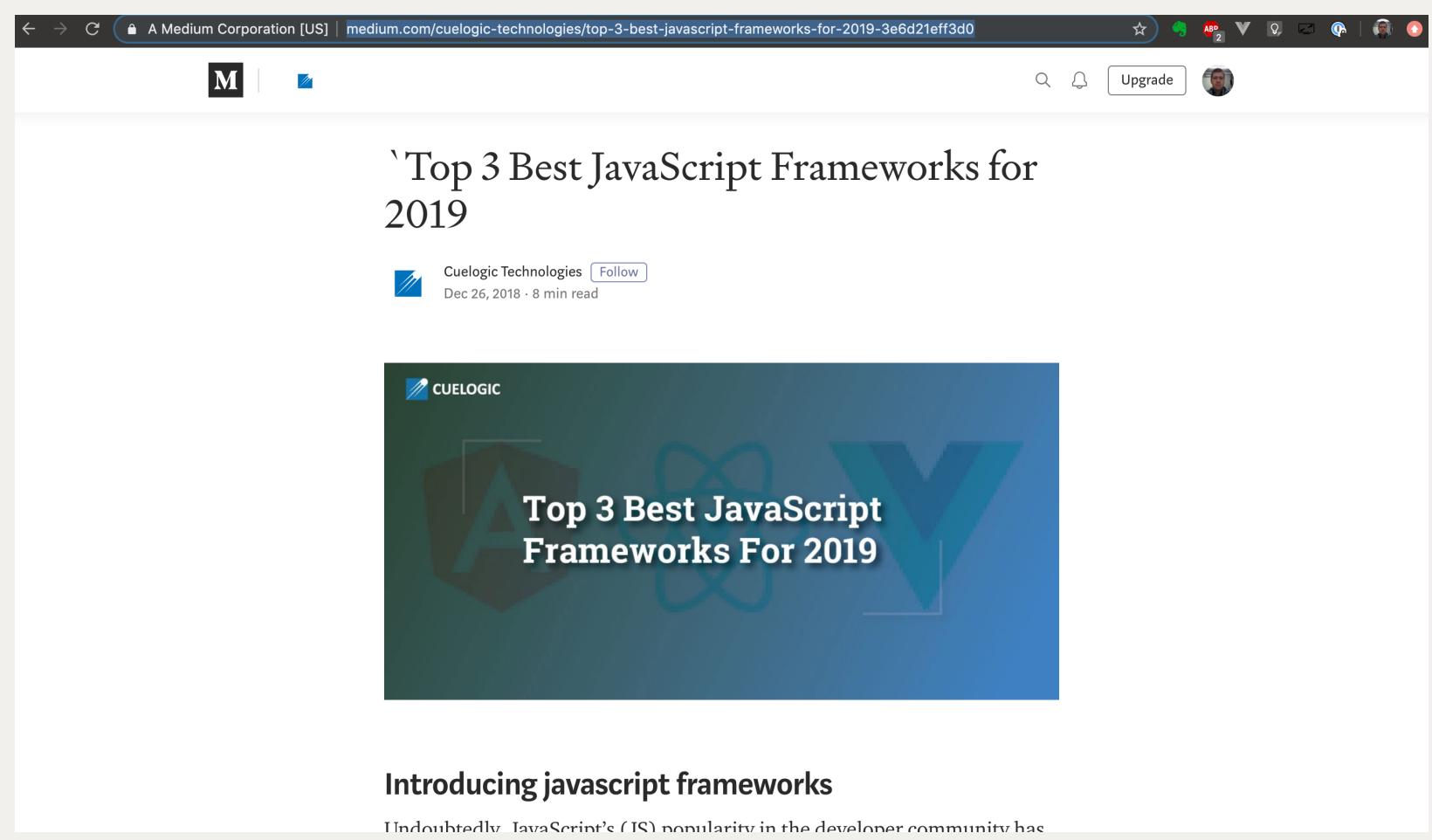
Patreon Sponsors

MODUS Share Code tooltwist

Vue School VUE.JS Vue.js Weekly

<https://vuejs.org>

JavaScript Frameworks



A screenshot of a Medium article page. The URL in the address bar is medium.com/cuelogic-technologies/top-3-best-javascript-frameworks-for-2019-3e6d21eff3d0. The page title is 'Top 3 Best JavaScript Frameworks for 2019'. The author is 'Cuelogic Technologies' (represented by a blue square icon) and the date is 'Dec 26, 2018 · 8 min read'. The main image is a dark blue gradient graphic with the text 'Top 3 Best JavaScript Frameworks For 2019' in white, with stylized letters A, R, and V representing Angular, React, and Vue respectively. Below the image, the first section is titled 'Introducing javascript frameworks'.

Top 3 Best JavaScript Frameworks for 2019

Cuelogic Technologies · Follow

Dec 26, 2018 · 8 min read

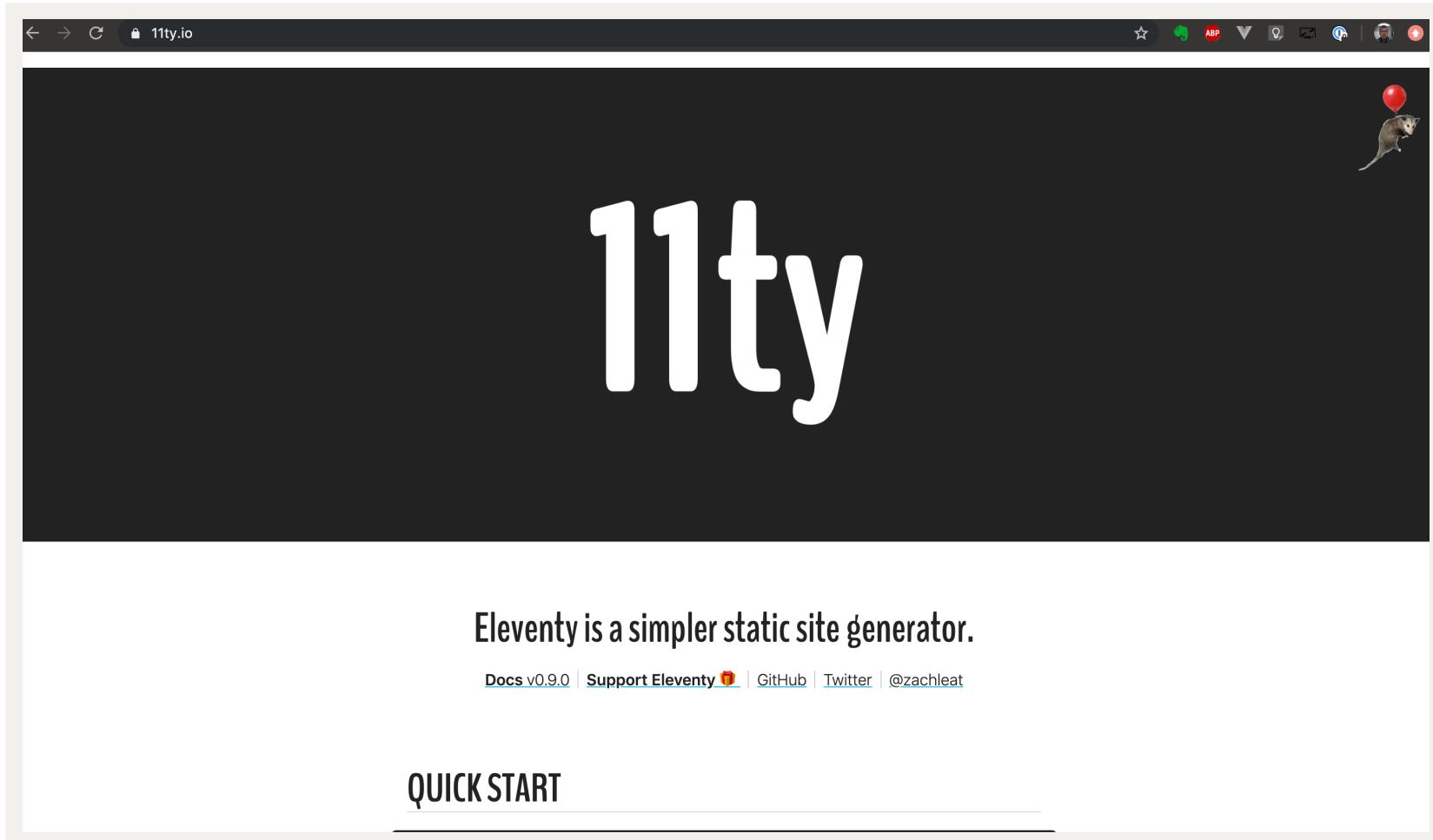
Top 3 Best JavaScript Frameworks For 2019

Introducing javascript frameworks

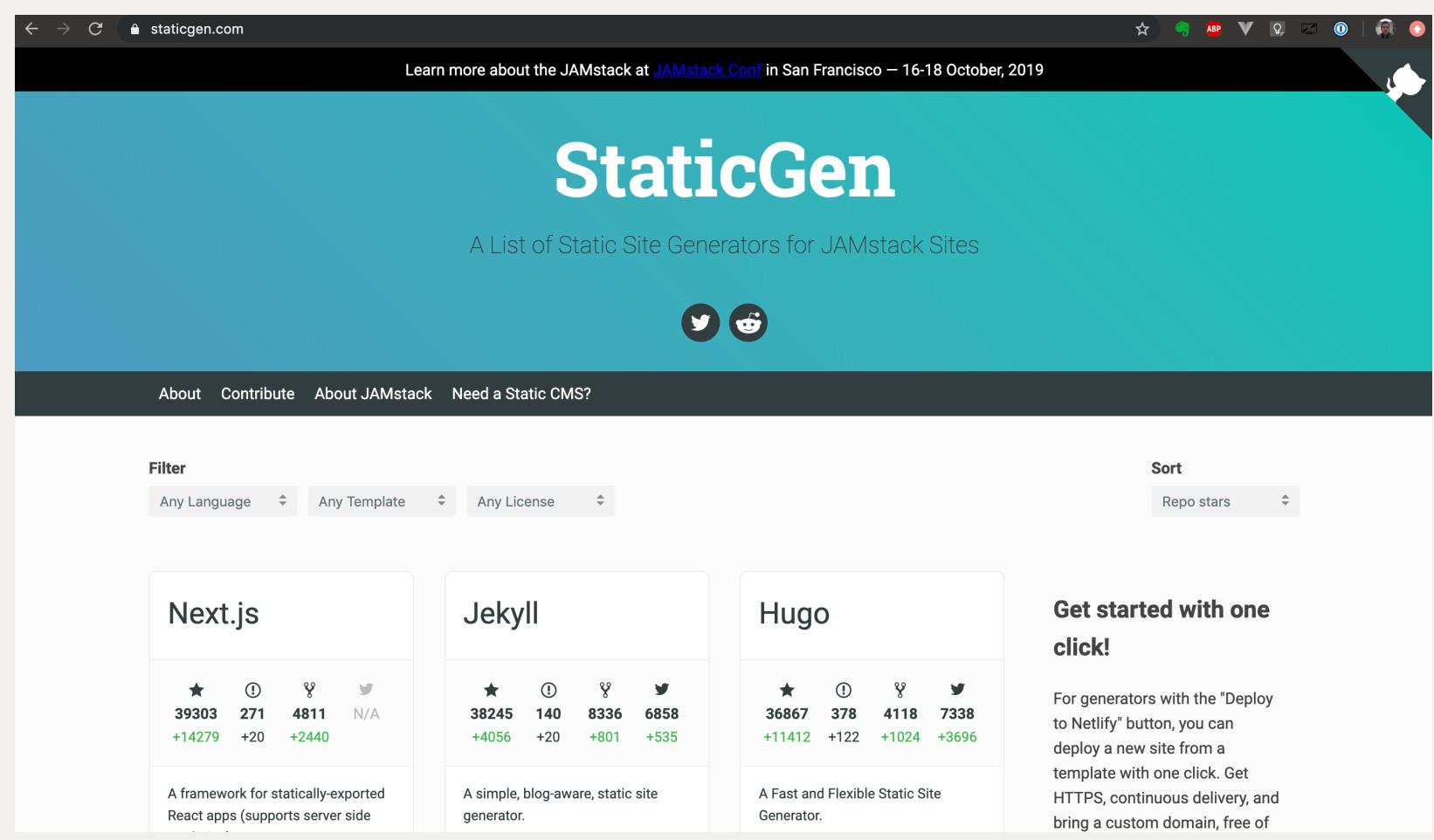
Undoubtedly, JavaScript's (JS) popularity in the developer community has

11ty

"Eleventy is a simpler static site generator"



Static Site Generators ?



Learn more about the JAMstack at [JAMstack Conf](#) in San Francisco – 16-18 October, 2019

StaticGen

A List of Static Site Generators for JAMstack Sites

[Twitter](#) [GitHub](#)

About Contribute About JAMstack Need a Static CMS?

Filter

Any Language Any Template Any License

Sort

Repo stars

Next.js	Jekyll	Hugo
<p>★ 39303 +14279 ① 271 +20 4811 +2440 N/A</p> <p>A framework for statically-exported React apps (supports server side)</p>	<p>★ 38245 +4056 ① 140 +20 8336 +801 4811 +2440 N/A</p> <p>A simple, blog-aware, static site generator.</p>	<p>★ 36867 +11412 ① 378 +122 4118 +1024 7338 +3696 N/A</p> <p>A Fast and Flexible Static Site Generator.</p>

Get started with one click!

For generators with the "Deploy to Netlify" button, you can deploy a new site from a template with one click. Get HTTPS, continuous delivery, and bring a custom domain, free of

<https://staticgen.com>

Static Site Generators ?

"The typical CMS driven website works by building each page on-demand, fetching content from a database and running it through a template engine. This means each page is assembled from templates and content on each request to the server."

"For most sites this is completely unnecessary overhead and only adds complexity, performance problems and security issues. After all, by far the most websites only change when the content authors or their design team makes changes."

"A Static Site Generator takes a different approach and generates all the pages of the website once when there's actually changes to the site. This means there's no moving parts in the deployed website. Caching gets much easier, performance goes up and static sites are far more secure."

What is 11ty

- Written in JavaScript
- Allows you to build websites
- With pages, posts and navigation
- Total design freedom
- Easy to maintain

Sites made using 11ty

- <https://www.webstoemp.com>
- <https://markboulton.co.uk/>
- <https://okitavera.me/>
- <https://every-layout.dev/>
- <https://paulrobertlloyd.com/>
- <https://hire.wil.to/>
- <https://www.fantomas-ls.com/>

(More here: <https://www.11ty.io/docs/sites/>)

Competitors

- Jekyll (Ruby)
- Hugo (Go)
- Hexo (JavaScript)
- Gatsby (JavaScript using React)
- Nuxt (JavaScript using Vue)

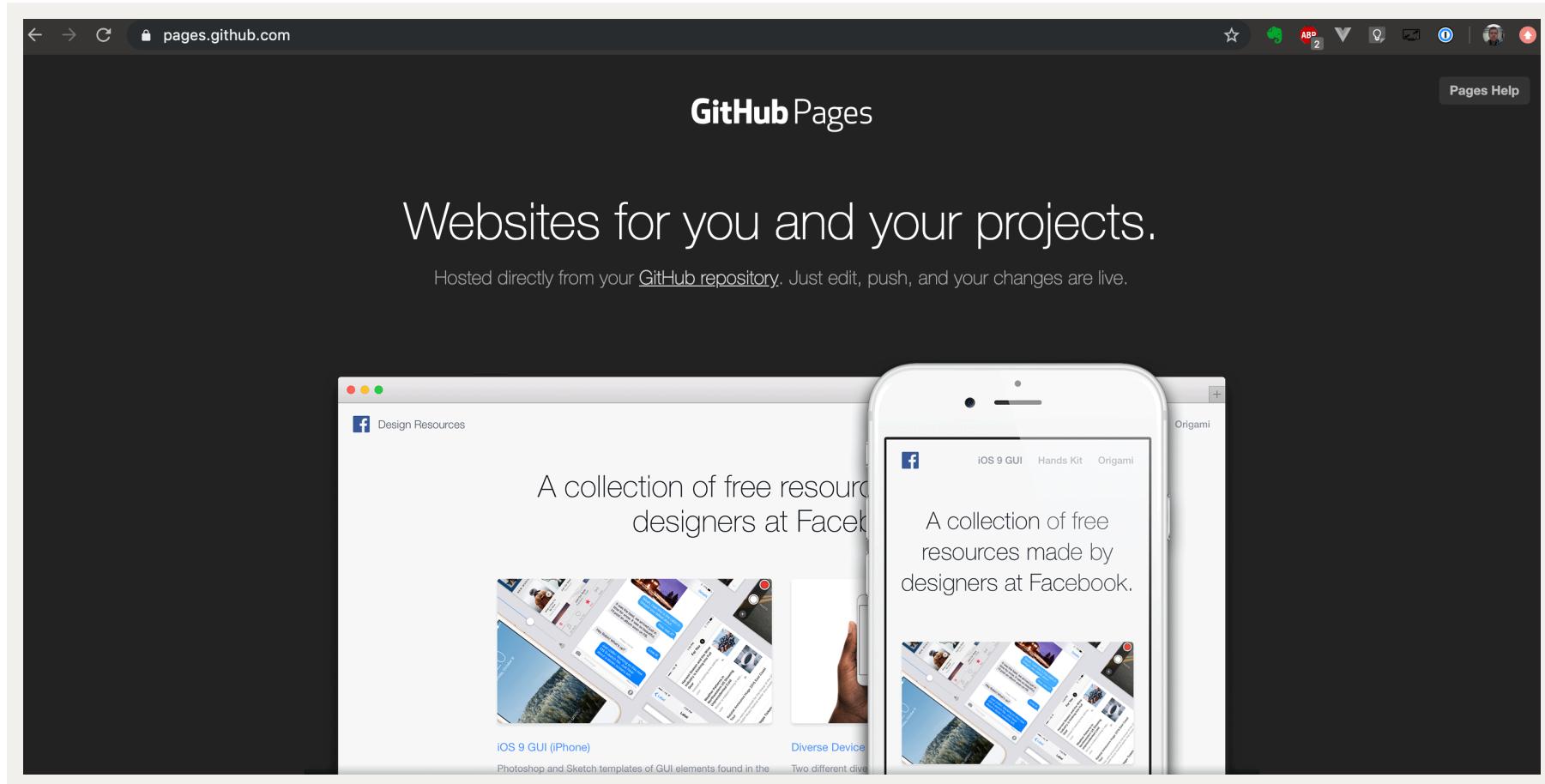
(if you wanna try one of those, be my guest!)

The challenge

The challenge

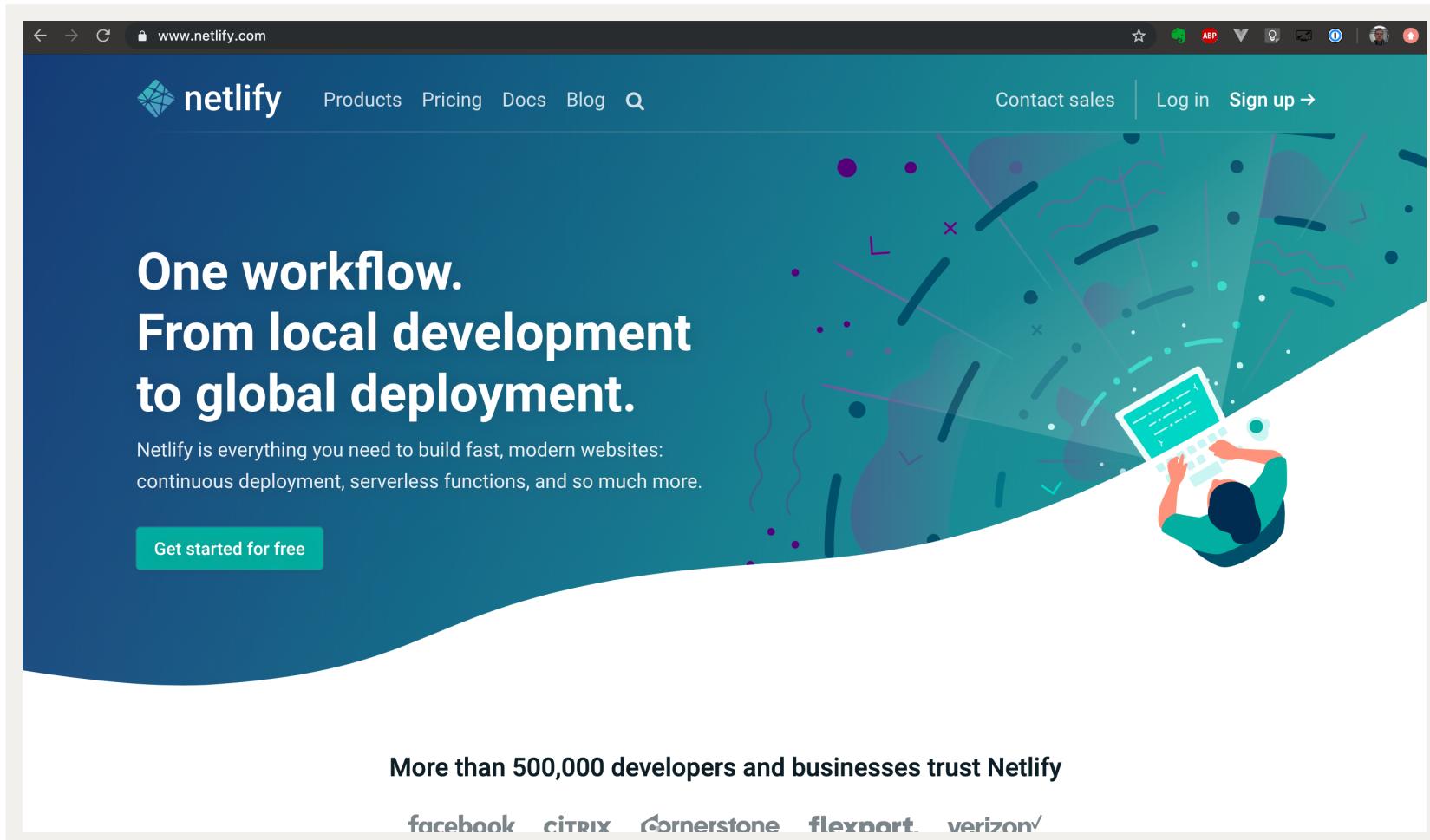
- Build a better designed personal site than I will using 11ty :-)
- Try to get as far as you can by next tuesday
- Next tuesday we'll review all of our sites and talk about them
- I will document my process and talk about it
- I will create a site, share source code and discuss it with you
- I will create an easy-to-use workflow to maintain my site and will talk about it
- You will then have extra time to finish your site

Try: deploy your experiment to GitHub



<https://github.com>

Bonus try: deploy your experiment to Netlify



<https://netlify.com>

Bonus try: deploy your experiment to Netlify

Deploy your site in seconds*

1 Connect your repository

GitHub
GitLab
Bitbucket

2 Add your build settings

Branch: **master** ✓
Command: **yarn build** ✓
Directory: **public** ✓

3 Deploy your website

2:30:40 PM git clone git@github.com:
2:30:40 PM Preparing Git Repo
2:30:40 PM Starting to deploy
2:30:40 PM Starting post processing
2:30:41 PM Post processing
2:30:41 PM Site is live

*Nope, no gotcha here.
It just takes a few clicks.

[Get started for free](#)

<https://netlify.com>

Getting you started

You'll try to climb this mountain first yourself

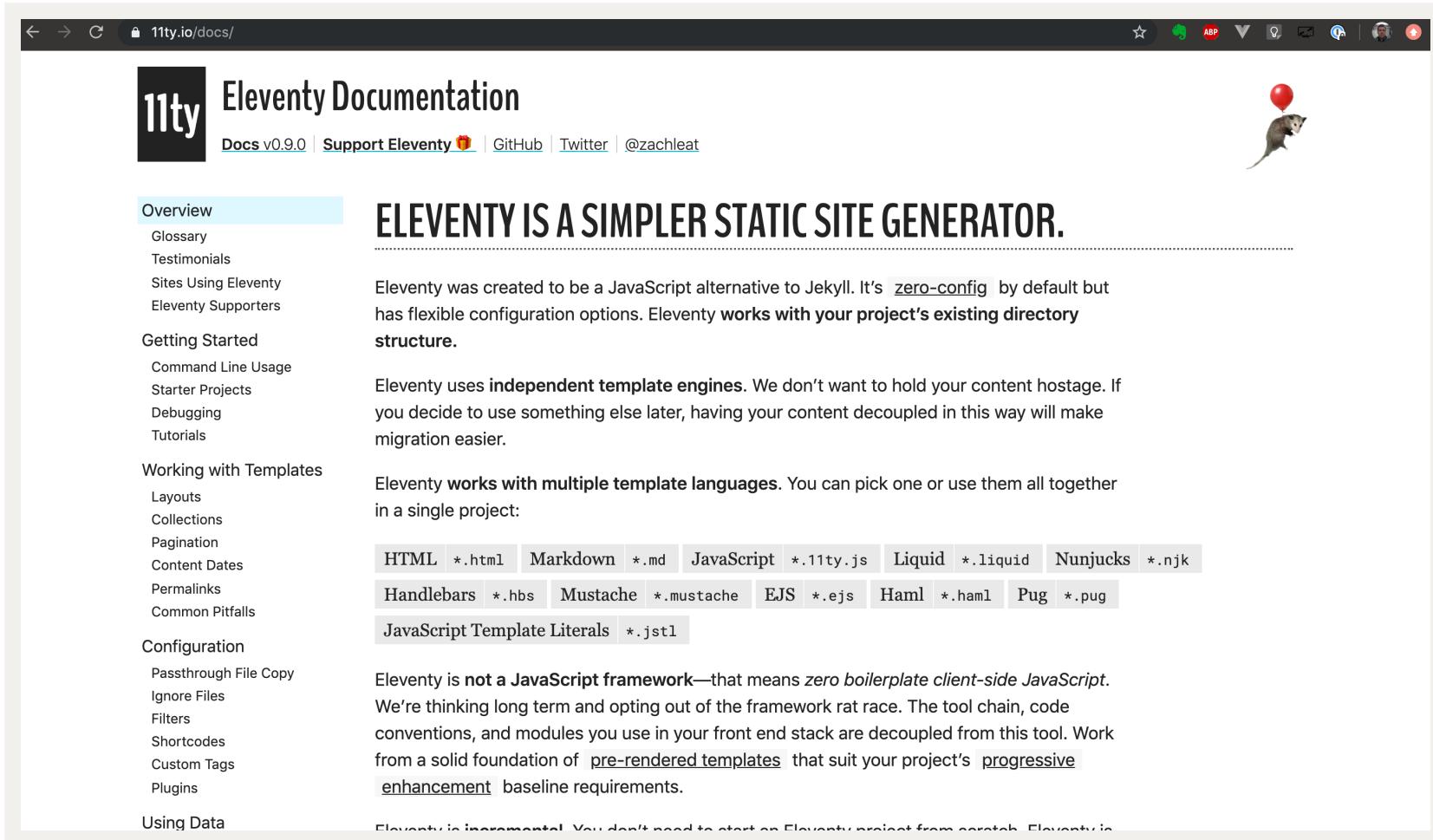


Hang in there!

Resources

- <https://www.11ty.io>
- <https://www.11ty.io/docs/>
- <https://www.youtube.com/watch?v=p7TkCS01II8&t=91s>
- <https://www.youtube.com/watch?v=JpK0G4vQjZI>
- https://www.youtube.com/watch?v=dS4lWTITNQM&list=PLOSLUtJ_J3roi5Eb3v-SkUV3nfGlyc_LF&index=3
- https://www.youtube.com/playlist?list=PLOSLUtJ_J3rrJ1R1qEf8CCEpV3GgbJGNr
- <https://hylia.website/>

Start here



The screenshot shows a web browser displaying the Eleventy Documentation homepage. The URL in the address bar is <https://11ty.io/docs/>. The page features a dark header with the 11ty logo and the text "Eleventy Documentation". Below the header, there are links for "Docs v0.9.0", "Support Eleventy", "GitHub", "Twitter", and "@zachleat". To the right of the header is a small illustration of a possum holding a red balloon. The main content area has a light background. On the left, a sidebar contains a navigation menu with sections: "Overview" (which is highlighted in light blue), "Glossary", "Testimonials", "Sites Using Eleventy", "Eleventy Supporters", "Getting Started" (which is expanded to show "Command Line Usage", "Starter Projects", "Debugging", and "Tutorials"), "Working with Templates" (which is expanded to show "Layouts", "Collections", "Pagination", "Content Dates", "Permalinks", and "Common Pitfalls"), "Configuration" (which is expanded to show "Passthrough File Copy", "Ignore Files", "Filters", "Shortcodes", "Custom Tags", and "Plugins"), and "Using Data". The main content on the right features a large heading "ELEVENTY IS A SIMPLER STATIC SITE GENERATOR." followed by a paragraph about Eleventy's philosophy of working with existing directory structures and independent template engines. Below this, another paragraph discusses multiple template languages, followed by a list of supported languages: HTML, Markdown, JavaScript, Liquid, Nunjucks, Handlebars, Mustache, EJS, Haml, Pug, and JavaScript Template Literals. A final paragraph explains Eleventy's focus on client-side JavaScript and its use of pre-rendered templates.

Eleventy Documentation

Docs v0.9.0 | Support Eleventy | GitHub | Twitter | @zachleat

ELEVENTY IS A SIMPLER STATIC SITE GENERATOR.

Eleventy was created to be a JavaScript alternative to Jekyll. It's [zero-config](#) by default but has flexible configuration options. Eleventy **works with your project's existing directory structure.**

Eleventy uses **independent template engines**. We don't want to hold your content hostage. If you decide to use something else later, having your content decoupled in this way will make migration easier.

Eleventy **works with multiple template languages**. You can pick one or use them all together in a single project:

HTML *.html Markdown *.md JavaScript *.11ty.js Liquid *.liquid Nunjucks *.njk Handlebars *.hbs Mustache *.mustache EJS *.ejs Haml *.haml Pug *.pug JavaScript Template Literals *.jstl

Eleventy is not a JavaScript framework—that means zero boilerplate client-side JavaScript. We're thinking long term and opting out of the framework rat race. The tool chain, code conventions, and modules you use in your front end stack are decoupled from this tool. Work from a solid foundation of [pre-rendered templates](#) that suit your project's [progressive enhancement](#) baseline requirements.

Eleventy is incremental. You don't need to start an Eleventy project from scratch. Eleventy is

Enjoy the ride!

- Imagine that this question came from a client, internship,... => for real, and you are on your own
- If it really doesn't work out for you, prepare a static personal site!

AFEC - 1 - An experiment with 11ty