



**Did we (b development)  
lose the right direction?**

@stefanjudis



**This is a talk about  
general "best practices"...**





**This is a rant about  
general "best practices"...**



# Heyo, I'm Stefan!



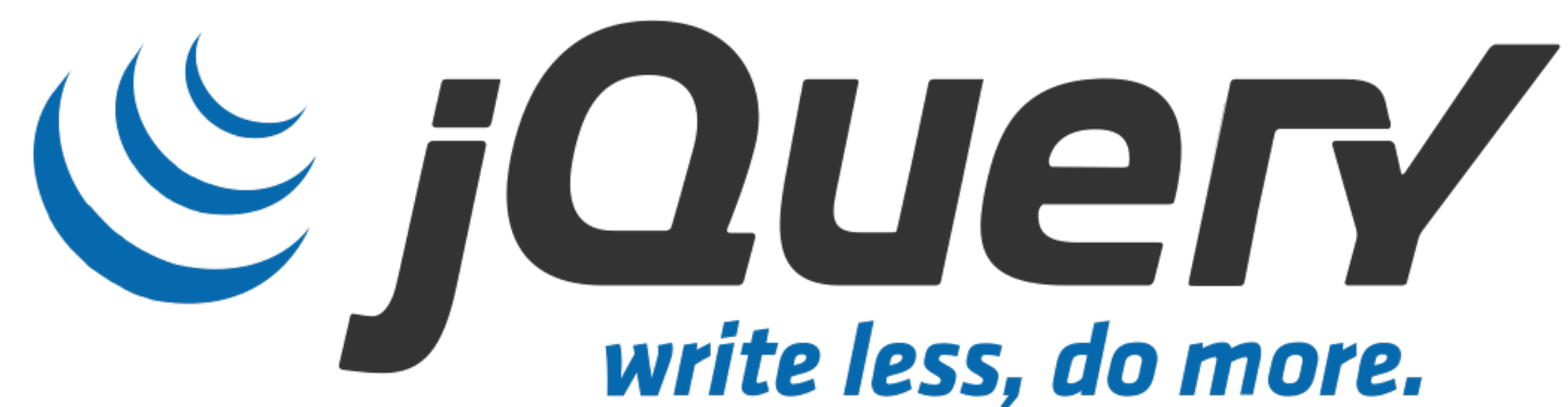
@stefanjudis  
[news.stefanjudis.com](https://news.stefanjudis.com)





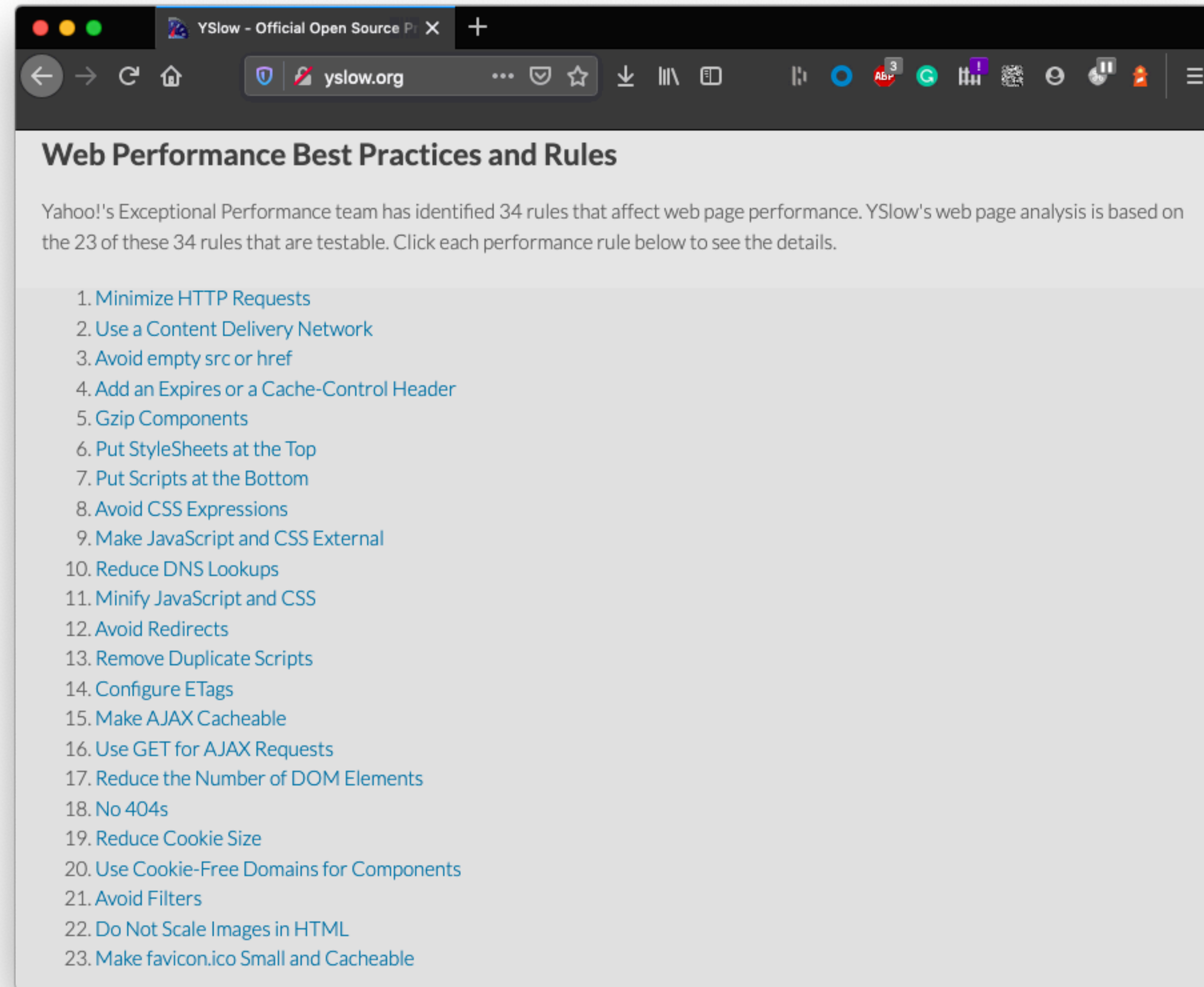
# **The state of web development ten years ago...**







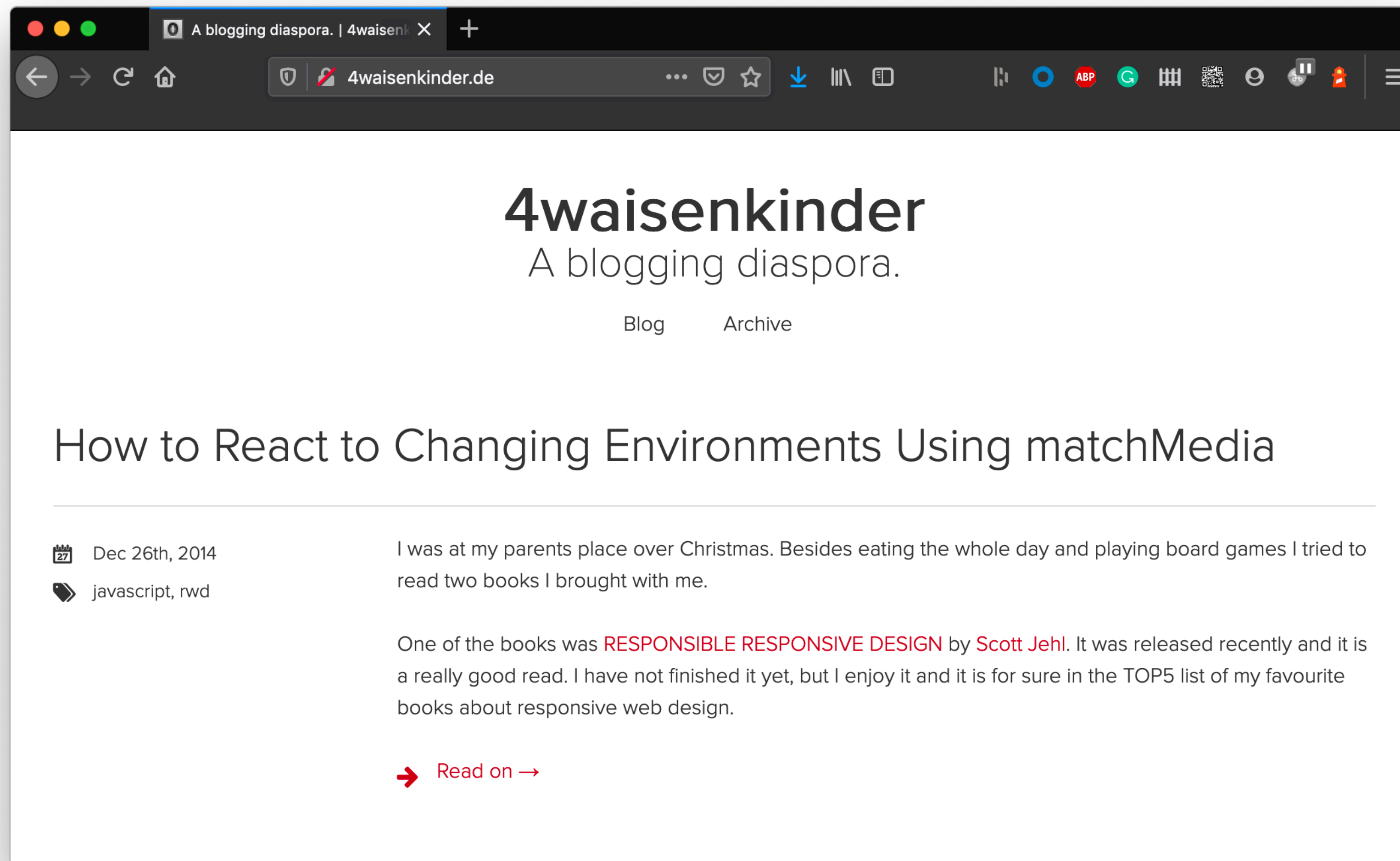
# yslow.org





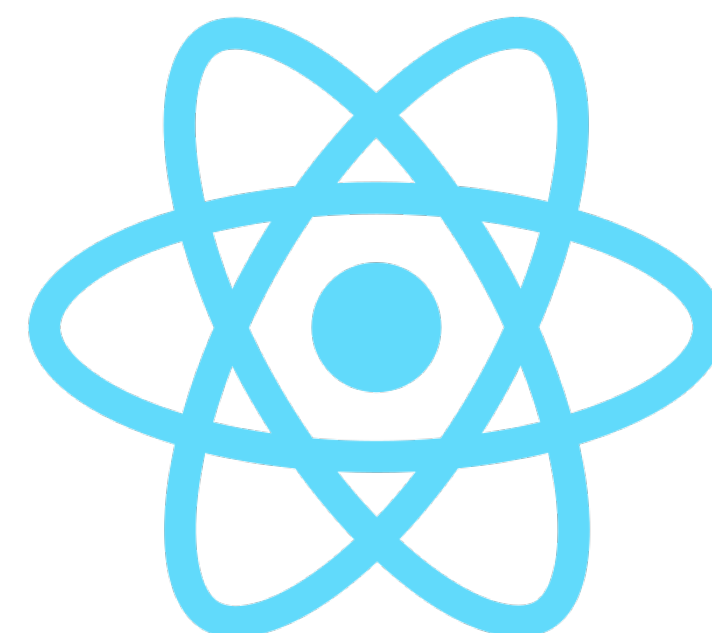


# 4waisenkinder.de







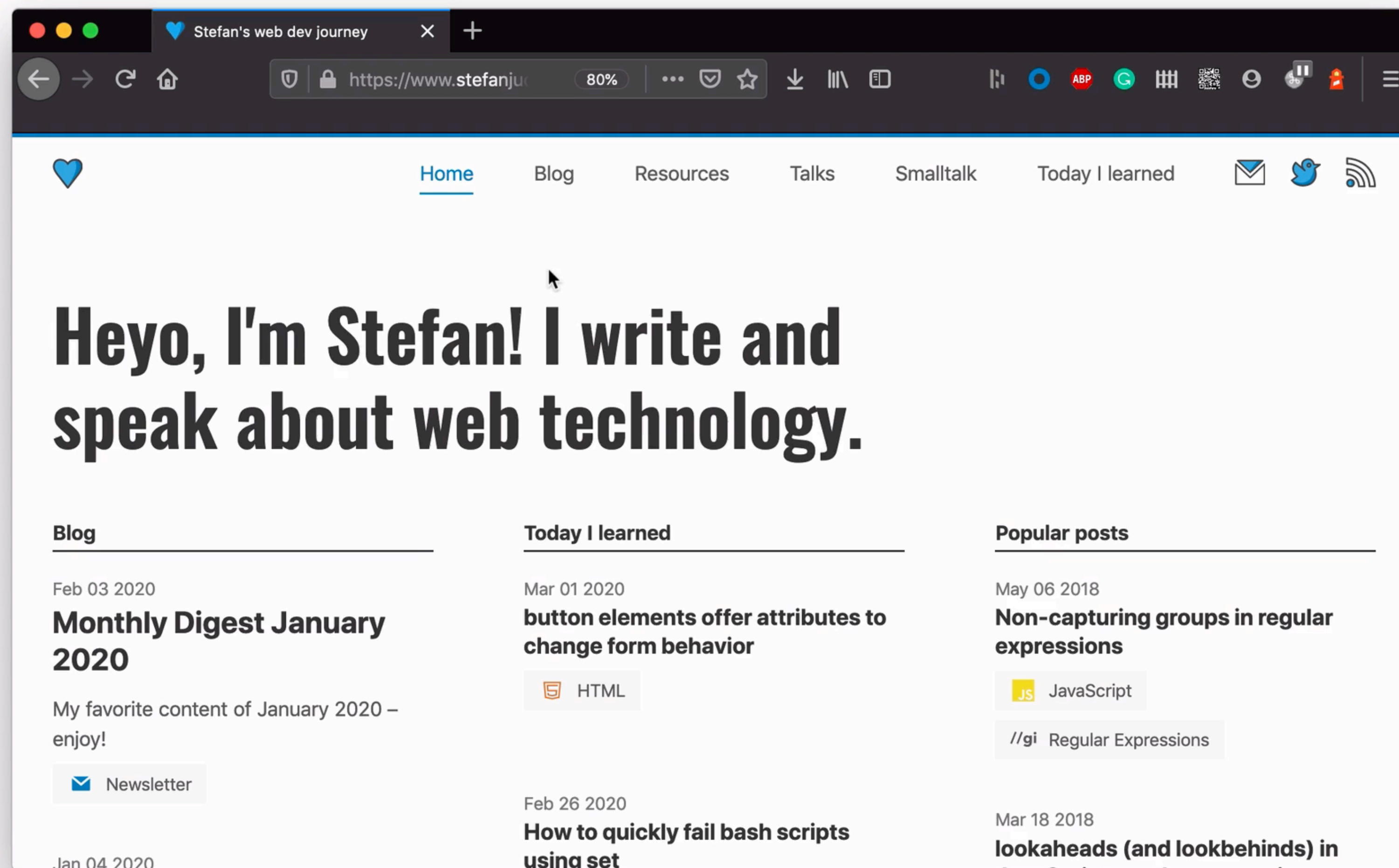




**I love technology and I  
love writing JavaScript!**



stefanjudis.com



2017 – 2020



Performance



Accessibility



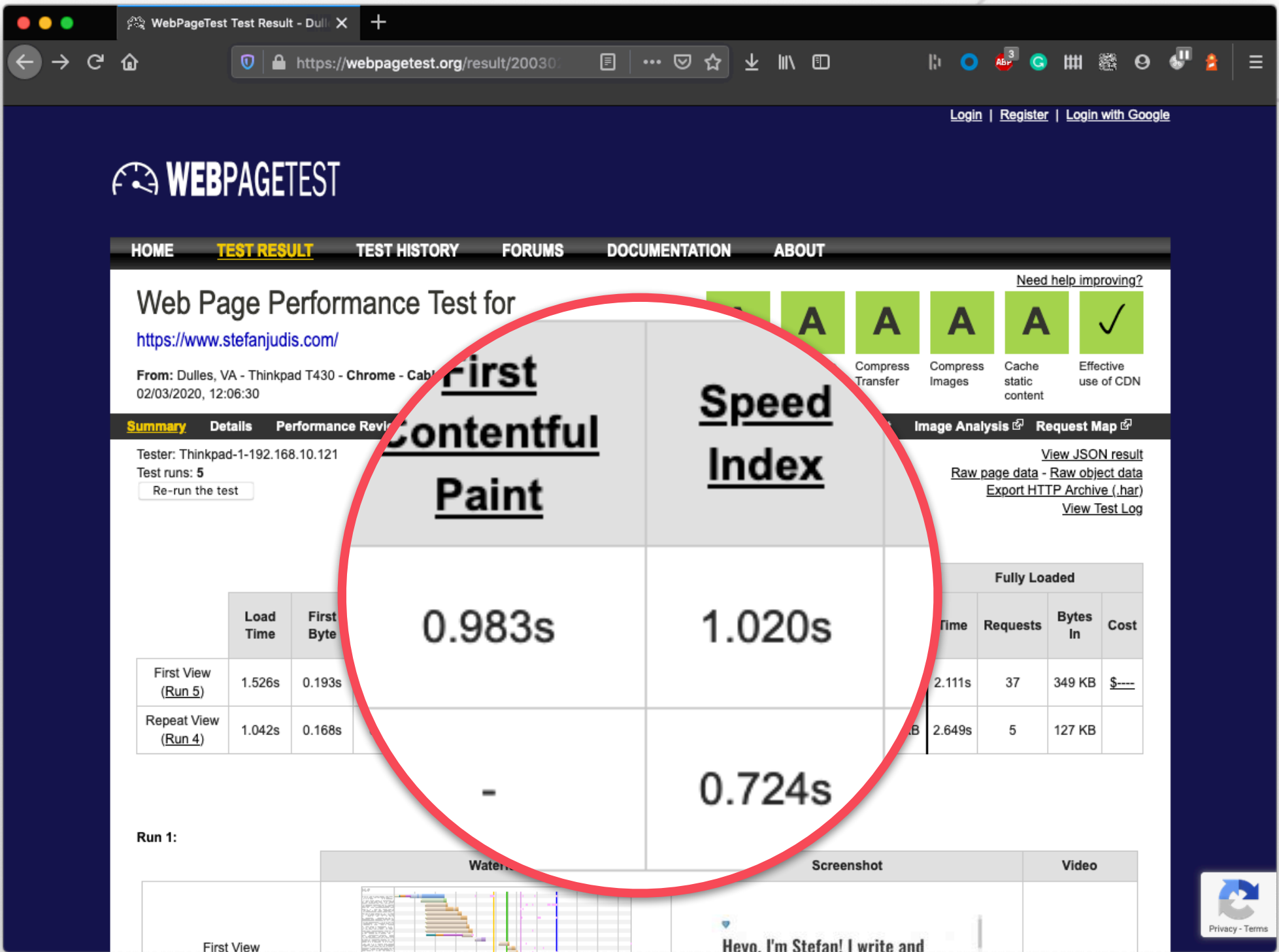
Best Practices



SEO

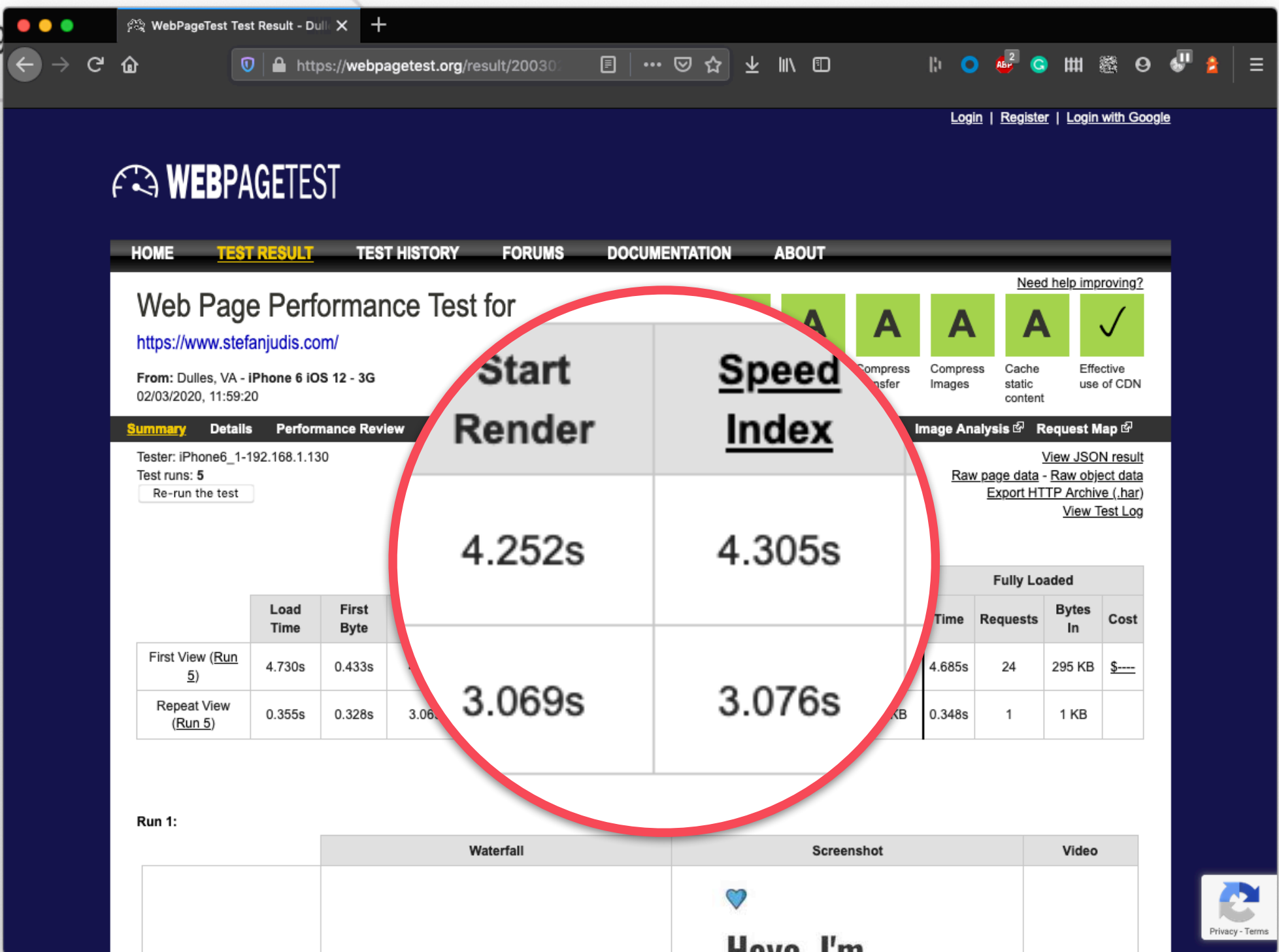


Progressive Web App



Chrome – Cable

50-89



iPhone 6 – 3G



**Usually, any score above a 90  
gets you in the top ~5% of  
performant websites.**

Lighthouse documentation





# HTTP/2

**Everything's compressed and minified!**

```
<script nomodule src="
```

```
unicode-range: U+0000  
U+02DC, U+2000-206F  
U+FEFF, U+FFFD;  
font-display: swap;
```

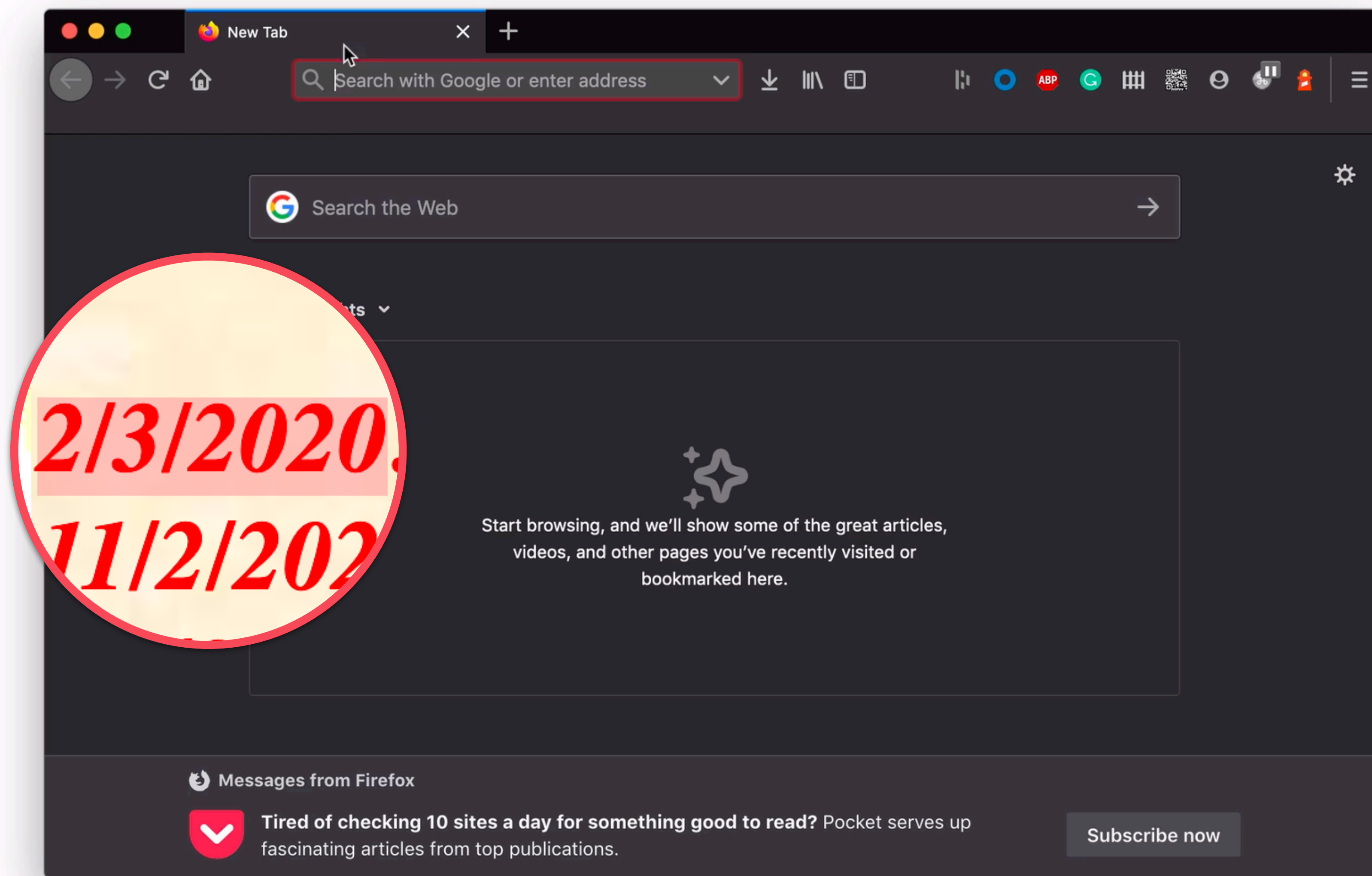
```
<link rel="modulepreload" href=
```

# Code splitting





[www.fmboschetto.it](http://www.fmboschetto.it)



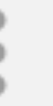




```
<body bgcolor="#FFFFFF" link="#FF0000" vlink="#FF0000" alink="#FF0000" background="sfondo2.gif">
<div align="center">
  <table border="0" cellspacing="0" height="1478" width="731">
    <center>
      <tr>
        <td width="177" height="224" style="border-style: ridge; border-width: 2" bgcolor="#FFFF">
          <p align="center"> 
          </p>
        </td>
        <td width="544" height="224" colspan="3" background="sfondo.jpg">
          <p align="center"><b><i><font color="#0000FF" size="4"> L'ingegner Franco Maria Bosche
          presenta:</font></i></b>
          <p align="center">
          <p align="center"><font face="Times New Roman, Times, serif" size="7" color="#FF0000">
            mio sito didattico</font>
```



http://www.fmboschetto.it/



Performance



Accessibility



Best  
Practices



SEO



Progressive  
Web App

0-49 50-89 90-100



http://4weisenkinder.de/



Performance



Accessibility



Best  
Practices



SEO



Progressive  
Web App

0-49 50-89 90-100

# webpagetest.org/video/

The screenshot shows the WebPageTest.org Visual Comparison interface in a web browser. The browser's address bar displays `https://webpagetest.org/video/`. The page has a dark blue header with the WebPageTest logo and navigation links: [Login](#), [Register](#), and [Login with Google](#). Below the header is a navigation bar with links: [HOME](#), [TEST RESULT](#), [TEST HISTORY](#), [FORUMS](#), [DOCUMENTATION](#), and [ABOUT](#).

The main content area is titled "Test a website's performance" and features four tabs: **Advanced Testing**, **Simple Testing**, **Visual Comparison** (which is active), and **Traceroute**. The Visual Comparison tab contains the following elements:

- A text prompt: "Enter multiple URLs to compare them against each other visually."
- A table with three rows of test configurations:

Label	URL	Action
4waisenkinder.de	http://4waisenkinder.de/	<a href="#">Remove</a>
www.fmboschetto.it	http://www.fmboschetto.it/	<a href="#">Remove</a>
stefanjudis.com	https://www.stefanjudis.com/	<a href="#">Remove</a>
- An "Add" button followed by the text "another page to the comparison."
- A "Test Configuration" section with a dropdown menu set to "Desktop".
- A note: "Chrome Desktop tested from Dulles, Virginia on a 5 Mbps cable connection with 28ms of latency."
- A footer box stating: "For each URL, 3 first-view tests will be run from 'Dulles, VA - Chrome' and the median run will be used for comparison. The tests will also be publically available. If you would like to test with different settings, submit your tests individually from the [main test page](#)."

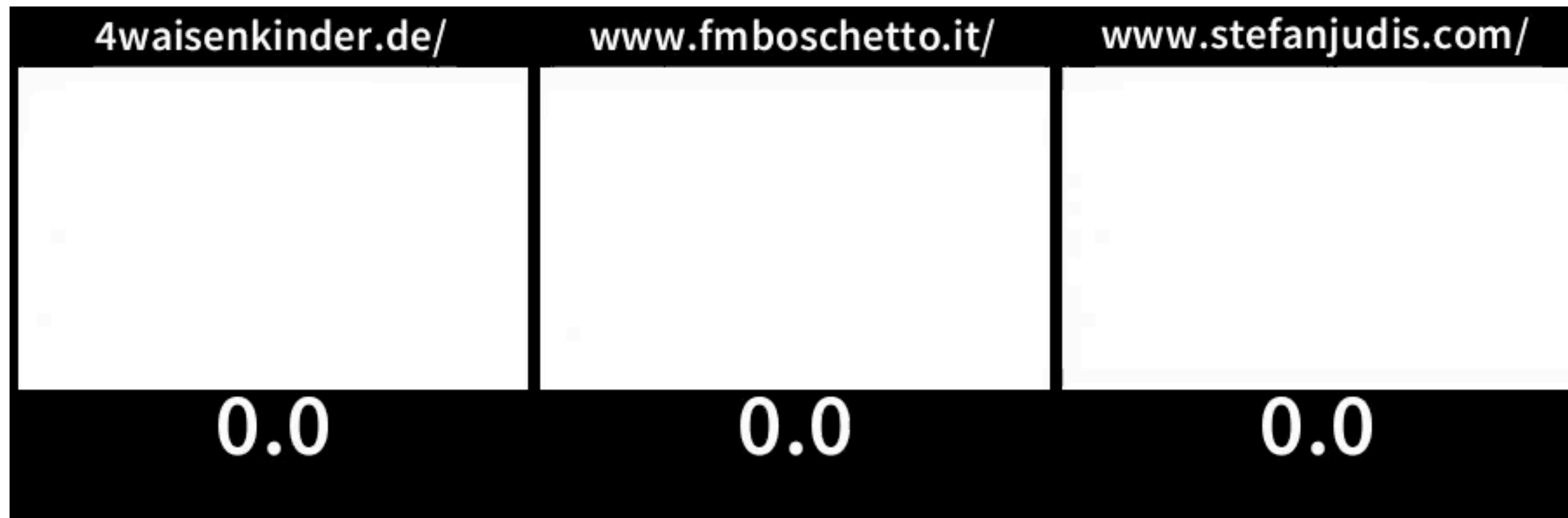
A large yellow "START TEST" button is positioned to the right of the configuration area. In the bottom right corner, there is a small icon for a circular arrow and a link to "Privacy - Terms".





# Chrome – Cable

[webpagetest.org/video/view.php?id=200302\\_2df0157ba9ea8586f5d987f7a1c3d52ed5e2a874](http://webpagetest.org/video/view.php?id=200302_2df0157ba9ea8586f5d987f7a1c3d52ed5e2a874)





**Stefan, you just  
messed it up!**



**Maybe, but how can it  
be so easy to mess up?**



	fmboschetto.it	4waisenkinder.de	stefanjudis.com
--	----------------	------------------	-----------------

Overall page weight	265KB / 284KB	159KB / 300KB	<u>340KB / 940KB</u>
index.html	8KB / 32KB	6KB / 18KB	<u>108KB / 340KB</u>
CSS resources	0	1	1
JS resources	2 (2KB / 6KB)	6 (68KB / 177KB)	<u>22</u> <u>(183KB / 512KB)</u>
Images resources	32 (246KB / 254KB)	0*	0*
Speed Index (LTE)	1.4s / 0.8s	2.1s / 0.7s	<u>2.3s / 1.5s</u>
Lighthouse Perf Score	100	97	<u>90</u>

\*ignoring tracking pixel



## Performance

### Metrics



■ First Contentful Paint	2.7 s	■ Time to Interactive	4.5 s
● Speed Index	2.7 s	● Total Blocking Time	170 ms
■ Largest Contentful Paint	2.7 s	● Cumulative Layout Shift	0

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)





**10%** - First contentful paint

**10%** - Time to interactive

**10%** - Speed Index

JavaScript blocks  
the main-thread!

**25%** - Largest contentful paint

**30%** - Total blocking time


**15%** - Cumulative layout shift

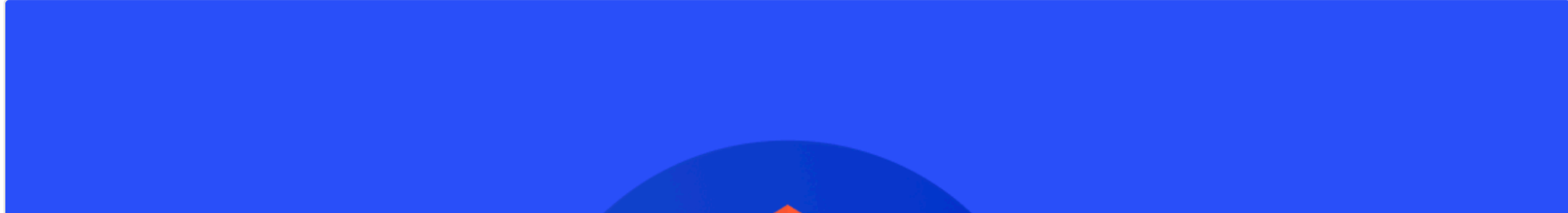


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Latest Articles Product Engineering **Web Platform**

# Lighthouse Changes How Performance Score is Calculated

  
Karolina Szczur  
March 27, 2020



Lighthouse Scoring calculator

https://paulirish.github.io/lh-scorecalc/?ref=tiny-helpers

## Lighthouse Scoring Calculator

	Value	Metric Score	Weighting
Paint)	1,000 ms	100	20%
	5,210 ms	60	26.7%
Paint)	2,860 ms	79	6.7%
	7,090 ms	52	33.3%
	5,030 ms	71	13.3%

68

	Value	Metric Score	Weighting
FCP (First Contentful Paint)	1,970 ms	95	15%

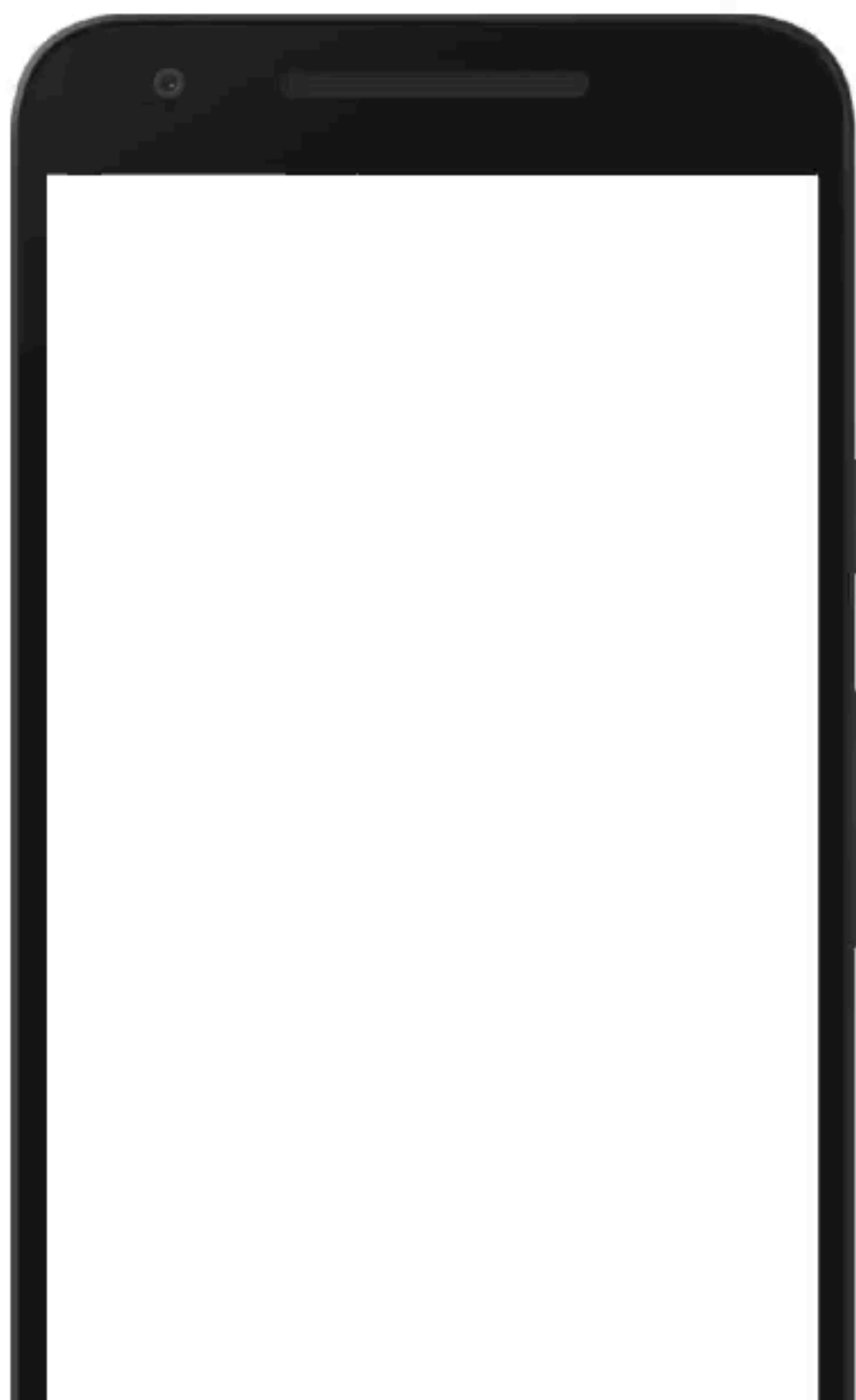
[calibreapp.com/blog/lighthouse-changes-scoring-algorithm](https://calibreapp.com/blog/lighthouse-changes-scoring-algorithm)

[paulirish.github.io/lh-scorecalc/](https://paulirish.github.io/lh-scorecalc/)

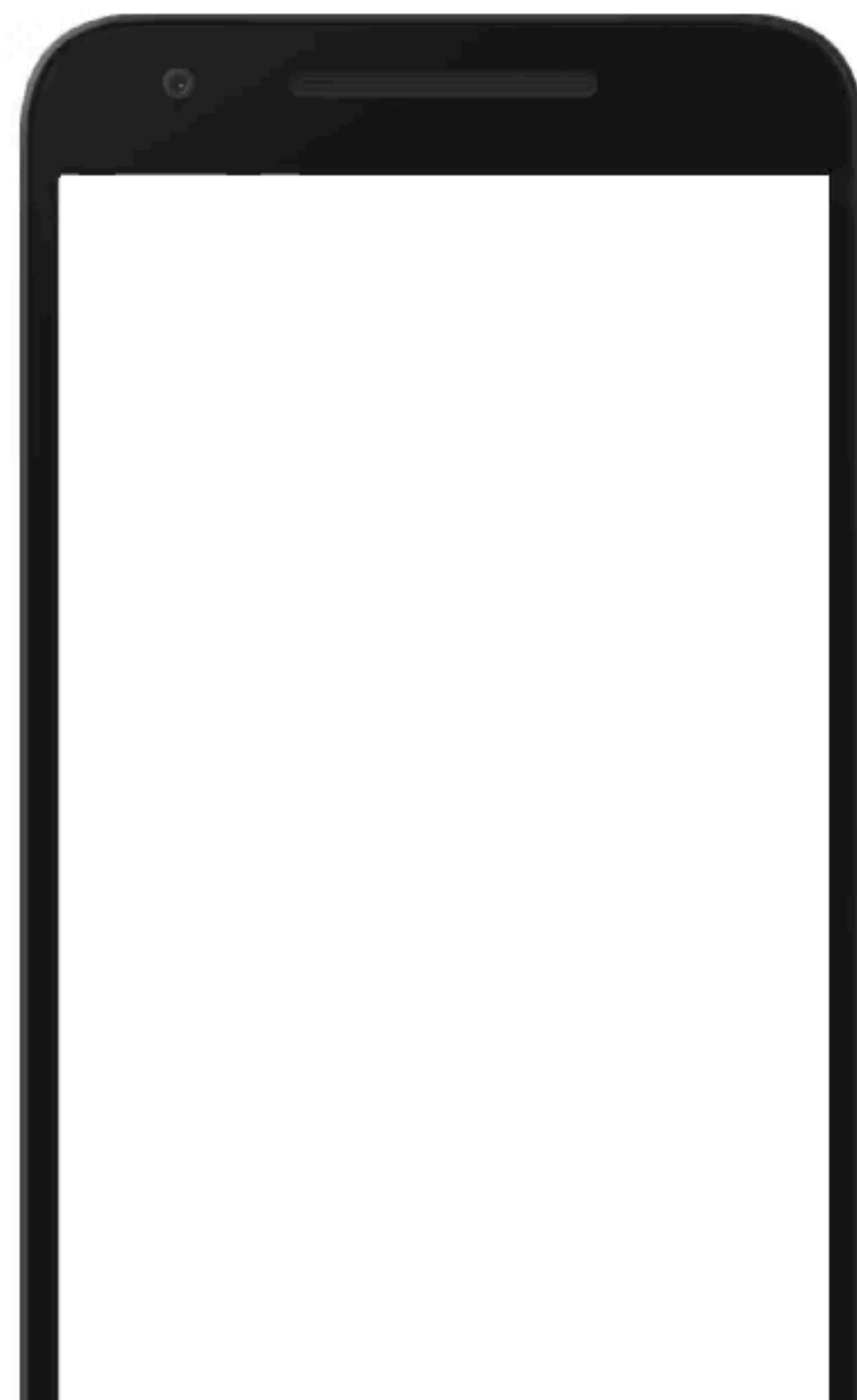


[www.youtube.com/watch?v=Lx1cYJAVnzA](https://www.youtube.com/watch?v=Lx1cYJAVnzA)

0<sub>s</sub> 00

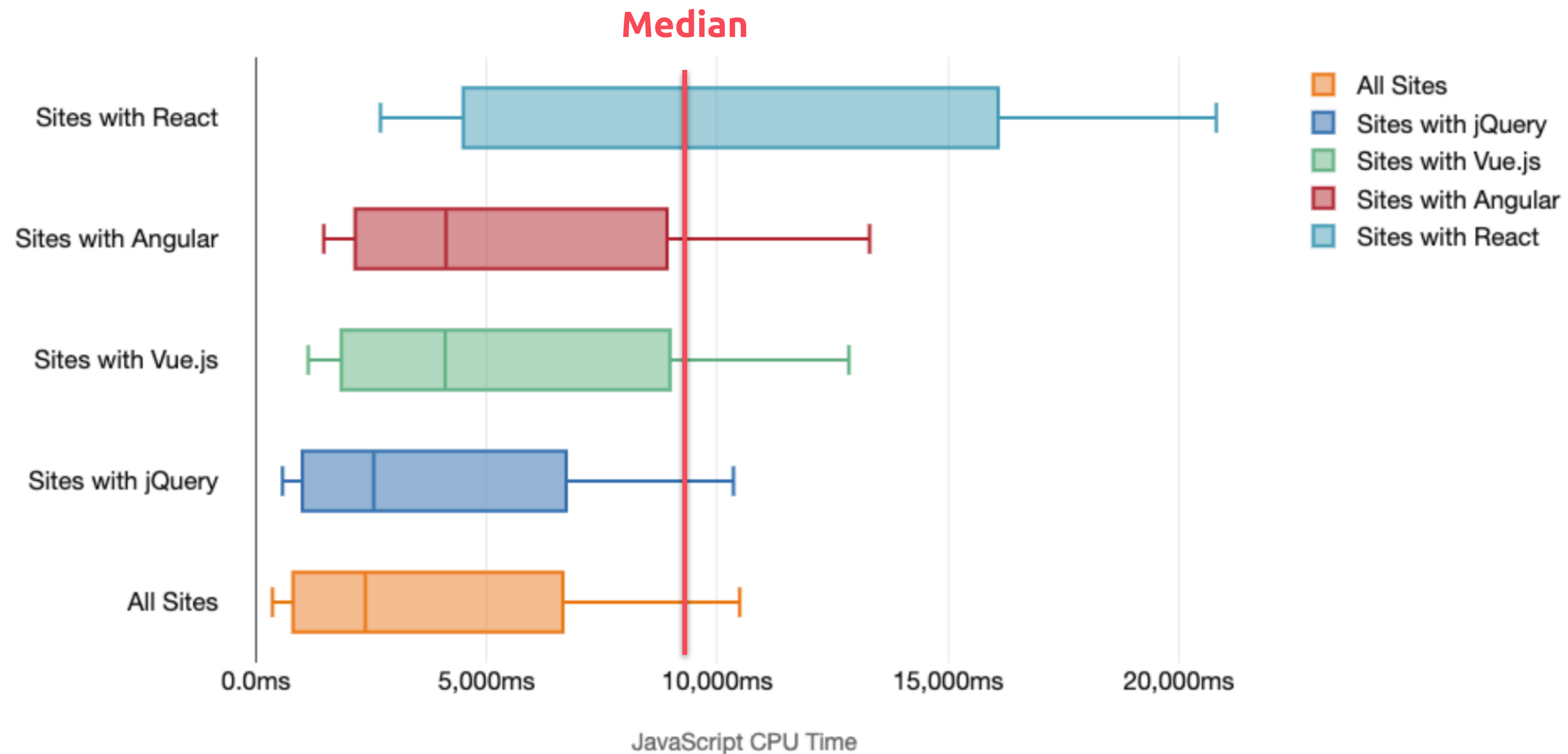


0<sub>s</sub> 00





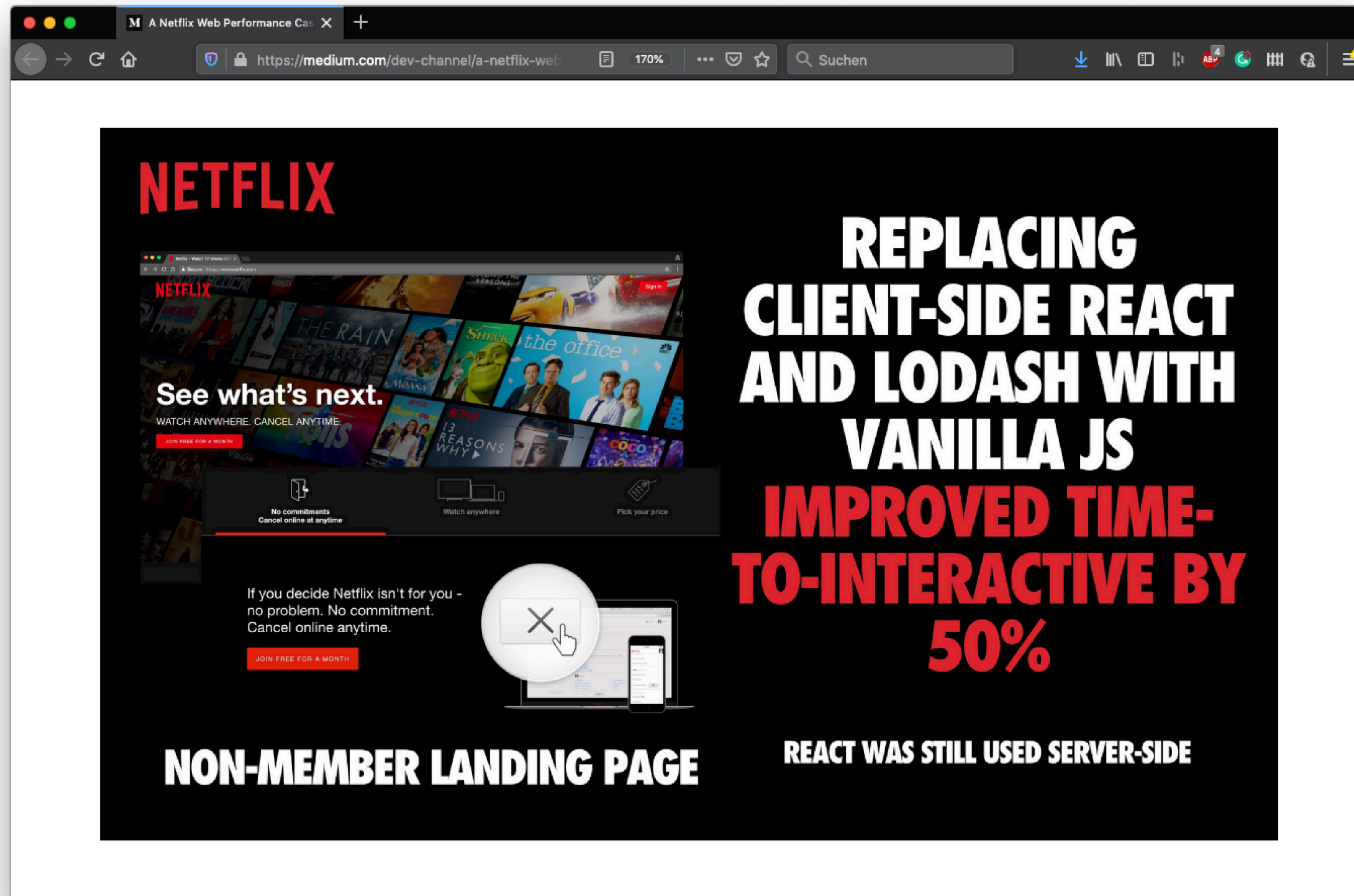
[timkadlec.com/remembers/2020-04-21-the-cost-of-javascript-frameworks/](https://timkadlec.com/remembers/2020-04-21-the-cost-of-javascript-frameworks/)



**Scripting related CPU time (in milliseconds) for mobile devices in percentiles**



[medium.com/dev-channel/a-netflix-web-performance-case-study-c0bcde26a9d9](https://medium.com/dev-channel/a-netflix-web-performance-case-study-c0bcde26a9d9)





**A 150KB image is not  
comparable to 150KB of  
gzipped JavaScript!**



**Page weight is not  
equal page weight!**

[Home](#)[Blog](#)[Resources](#)[Talks](#)[Smalltalk](#)[Today I learned](#)

# Heyo, I'm Stefan! I write and speak about web technology.

## Blog

Feb 03 2020

### Monthly Digest January 2020

My favorite content of January 2020 – enjoy!

Newsletter

Jan 04 2020

### Monthly Digest December 2019

My favorite content of December 2019 – enjoy!

Newsletter

Dec 05 2019

### Monthly Digest November 2019

My favorite content of November 2019 – enjoy!

Newsletter

## Today I learned

Mar 01 2020

### button elements offer attributes to change form behavior

HTML

Feb 26 2020

### How to quickly fail bash scripts using set

Bash

Feb 14 2020

### requestSubmit offers a way to validate a form before submitting it

JavaScript HTML

Feb 05 2020

### The macOS screenshot area is draggable

macOS

## Popular posts

May 06 2018

### Non-capturing groups in regular expressions

JavaScript //gi Regular Expressions

Mar 18 2018

### lookaheads (and lookbehinds) in JavaScript regular expressions

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Feb 09 2018

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Node.js

Oct 24 2016

### aria-selected – when (not) to use it

Accessibility

## Projects

### tiny-helpers.dev

A collection of free single-purpose online tools for web developers

Tools

### CSS Scroll shadows

A tool to create CSS scroll shadows quickly.

CSS Serverless

### Performance Tooling Today

A searchable resource collection all about web performance including articles, talks, slides and more...

Performance

## Developer Smalltalk

Jan 15 2020

### How to import API data in Google Sheets and visualize it in Google Data Studio

Tools

Aug 07 2019

### "Org mode is plain text on steroids" with Mudit Ameta

Tools

Jul 23 2019

### Easier designers & developers collaboration using visbug with Adam Argyle

Tools CSS

Jul 04 2019

### "It's all about the buffers" with Mudit Ameta

Tools

## Latest talks

### Regular Expressions – my secret love

( [Slides](#) / [Recording](#) )

//gi Regular Expressions JavaScript

### Write a Function ( [Slides](#) / [Recording](#) )

JavaScript Serverless

Static Sites

### React in a worker, worker, worker...

( [Slides](#) / [Recording](#) )

JavaScript

### HTTP headers for the responsible developer

( [Slides](#) / [Recording](#) )

Performance Web



## Get the latest content right in your inbox ...

( [View past newsletters](#) )

Email address

janedoe@example.com

Subscribe

OR

... say Hi somewhere in the internet!



Twitter



Git-Hub



Instagram

# That's a 340KB index file for roughly 400 words, Stefan?



Some Person

@somePerson

Antwort an [@stefanjudis](#) und [@calibreapp](#)

300 KB HTML? WTH is in your page? 🤯🤯🤯

[Tweet übersetzen](#)

1:53 vorm. · 17. Apr. 2018 aus [Berlin, Deutschland](#) · [Twitter for Android](#)





**Stefan Judis** @stefanjudis · 17. Apr. 2018

Inlined resources for fast first paint. :)



1



**Stefan Judis** @stefanjudis · 17. Apr. 2018

http2 is enabled but as long as http2 push digests are not ready yet inlining and preload are the faster and more cache friendly way to go.

What is fair is that there is data in the page that's used for further navigations but yeah I take that for instand navigation. :)



1



**Stefan Judis**  
@stefanjudis

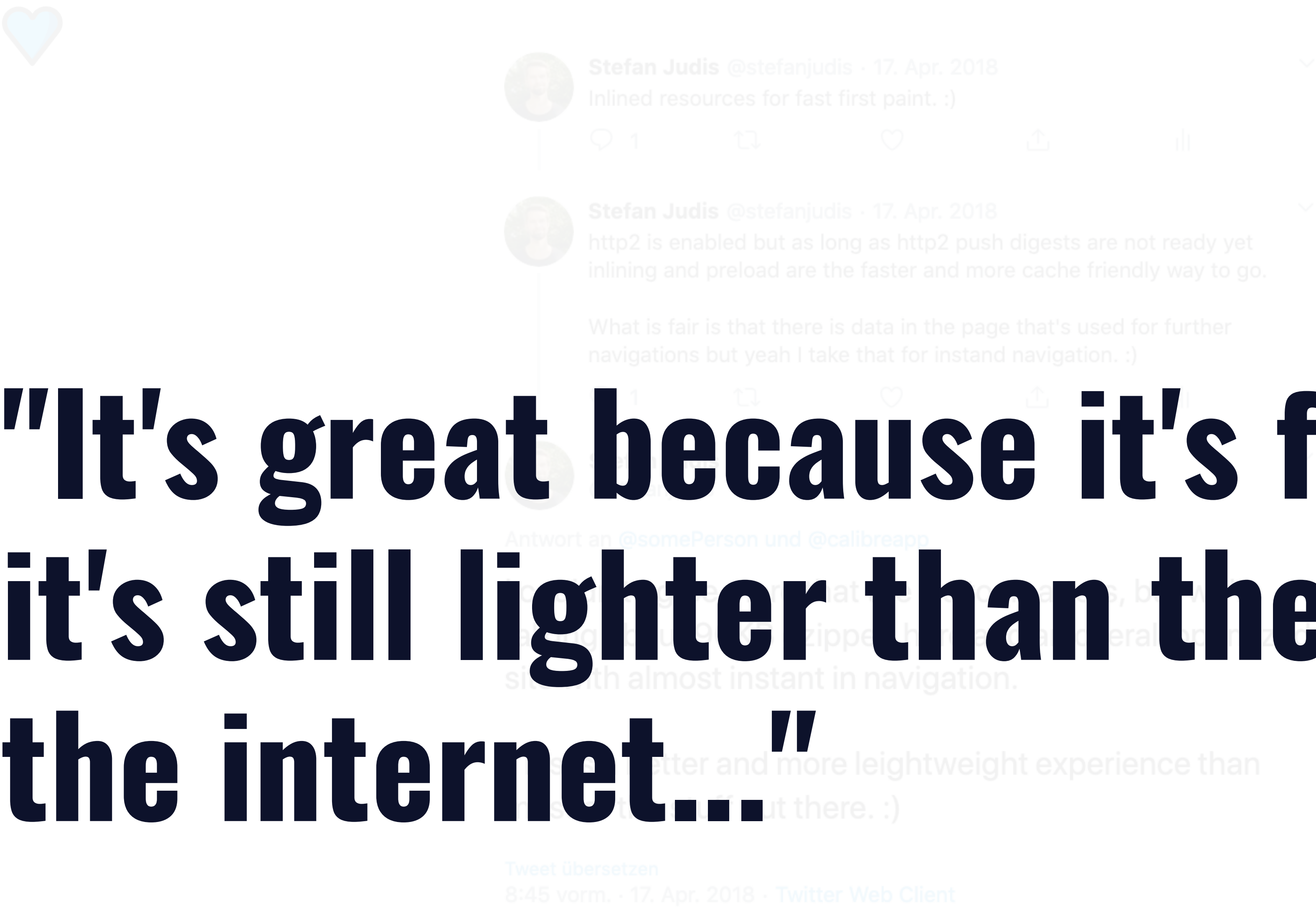
Antwort an [@somePerson](#) und [@calibreapp](#)

I couldn't agree more that the visitor matters, but we're talking about 90KB gzipped here and an overall optimized site with almost instant in navigation.

This is a better and more lightweight experience than most of the stuff out there. :)

[Tweet übersetzen](#)

8:45 vorm. · 17. Apr. 2018 · [Twitter Web Client](#)



**"It's great because it's fast! And  
it's still lighter than the rest of  
the internet..."**



**~~"It's great because it's still lighter than the rest of the internet..."~~**

**"I'm really digging the tech-stack!"**

Tweet übersetzen  
8:45 vorm. · 17. Apr. 2018 · Twitter Web Client

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[JavaScript](#)[HTML](#)

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[macOS](#)

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[//gi](#)[Regular Expressions](#)

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[Node.js](#)

##### Oct 24 2016 aria-selected – when (not) to use it

[Accessibility](#)

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[Regular Expressions](#)[JavaScript](#)

##### Write a Function ( [Slides](#) / [Recording](#) )

[JavaScript](#)[Serverless](#)[Static Sites](#)

##### React in a worker, worker, worker... ( [Slides](#) / [Recording](#) )

[JavaScript](#)

##### HTTP headers for the responsible developer ( [Slides](#) / [Recording](#) )

[Performance](#)[Web](#)

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( [View past newsletters](#) )

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OR

... say Hi somewhere in the internet!

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

That's a 340KB index file for roughly 400 words, Stefan?

```
window.__DATA__=function(
  e,t,n,o,i,/ * . . . */
){ return /* . . . */ }
```



**I decided to preload/inline  
22 articles ...  
(at an average session length of 1.17 pages)**



**... for "better  
performance".**





**Making a very fast  
website is extremely hard!**



**Making a very fast  
website is extremely hard!**  
**(But is it really?)**



[twitter.com/philhawsworth/status/1038440732741259265](https://twitter.com/philhawsworth/status/1038440732741259265)



**Phil Hawsworth**  
@philhawsworth



A few people have asked me what I did to make this so fast.

The answer is: nothing.  
I just didn't add anything to make it slow.

I kept it simple.  
The pages are pre-rendered.  
The CSS is inlined.

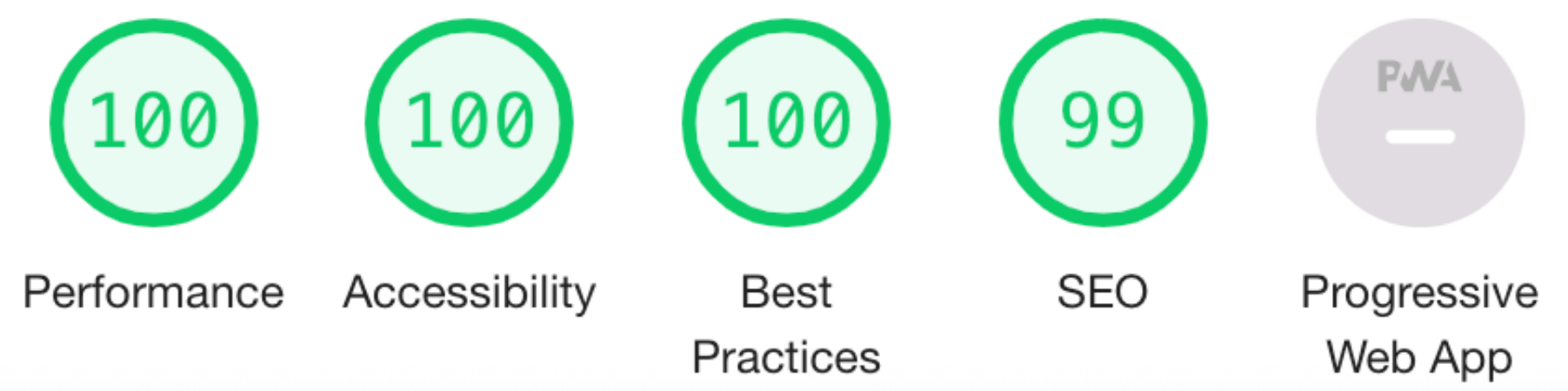
I didn't add unnecessary JavaScript.


**The work was done before you got there.**

[Tweet übersetzen](#)

4:55 nachm. · 8. Sep. 2018 · [Twitter Web Client](#)

11 Retweets 55 „Gefällt mir“-Angaben



Tiny helpers

A collection of free single-purpose online tools for web developers...

Tags

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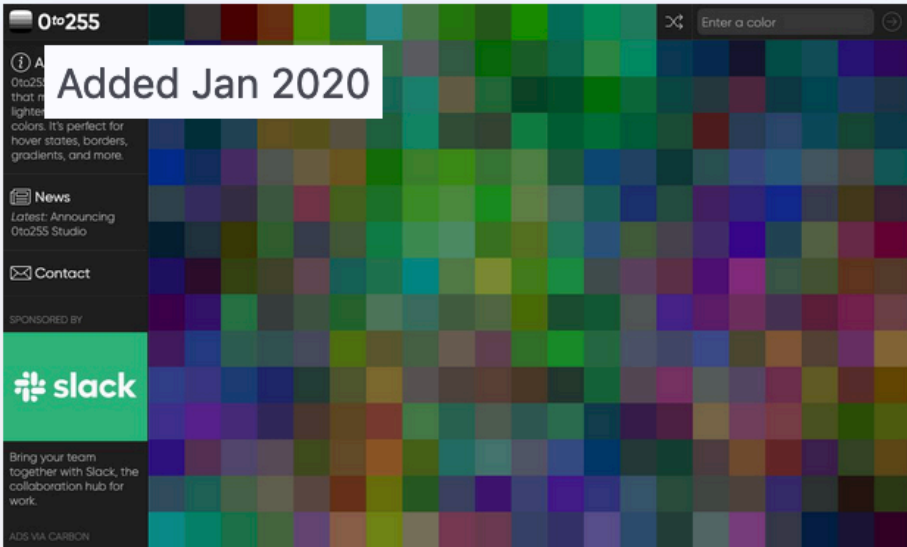
Add helper

All tools

Sort by name

Sort by date

Added Jan 2020




Oto255

Color

Lighten and darken colors easily

Added Feb 2020




2QR

Misc

Create QR codes with one click, using the URL, a bookmarklet or direct input

Made by

Waiting for github.com...





[www.11ty.dev/docs/performance-leaderboard/](https://www.11ty.dev/docs/performance-leaderboard/)

11ty

Eleventy Documentation

Docs

Twitter

zachleat

Overview

Glossary

Testing

Getting Started

Configuration

Stylus

Optimizing

Eleventy CLI

Contributing

Built With

Performance

Accessibility

Eleventy Authors

Working with Templates

Layouts

Layout Chaining

275

Sites

158

100's

100

Median Lighthouse

96.9

Mean Lighthouse

1,563

Median Speed

1,875

Mean Speed

148

Median First Contentful Paint

148

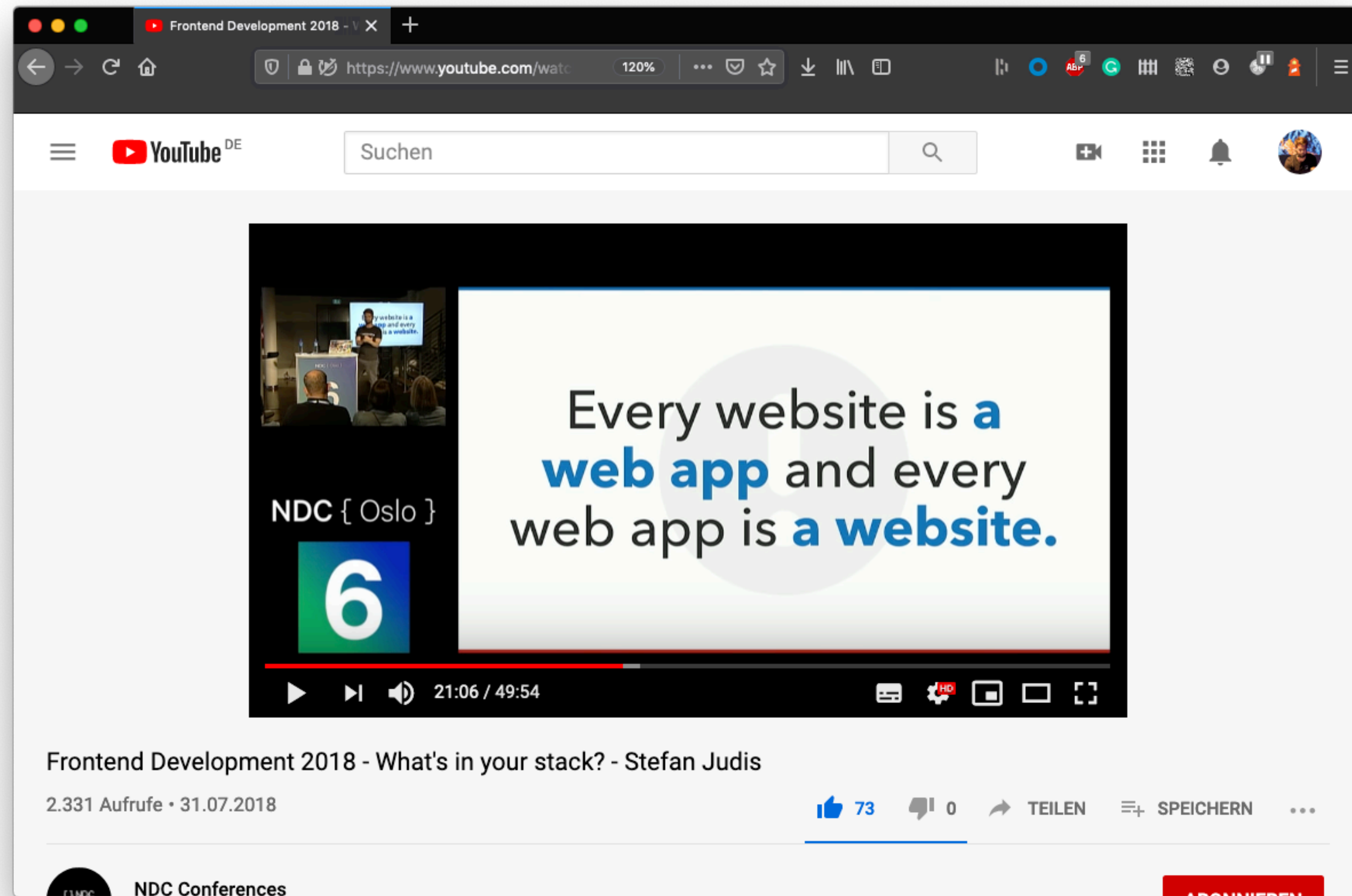
Median First Contentful Paint

PERFORMANCE LEADERBOARD



Want to add your site to this list? [↗](#)

[www.youtube.com/watch?v=88K8oO\\_dYbl](https://www.youtube.com/watch?v=88K8oO_dYbl)





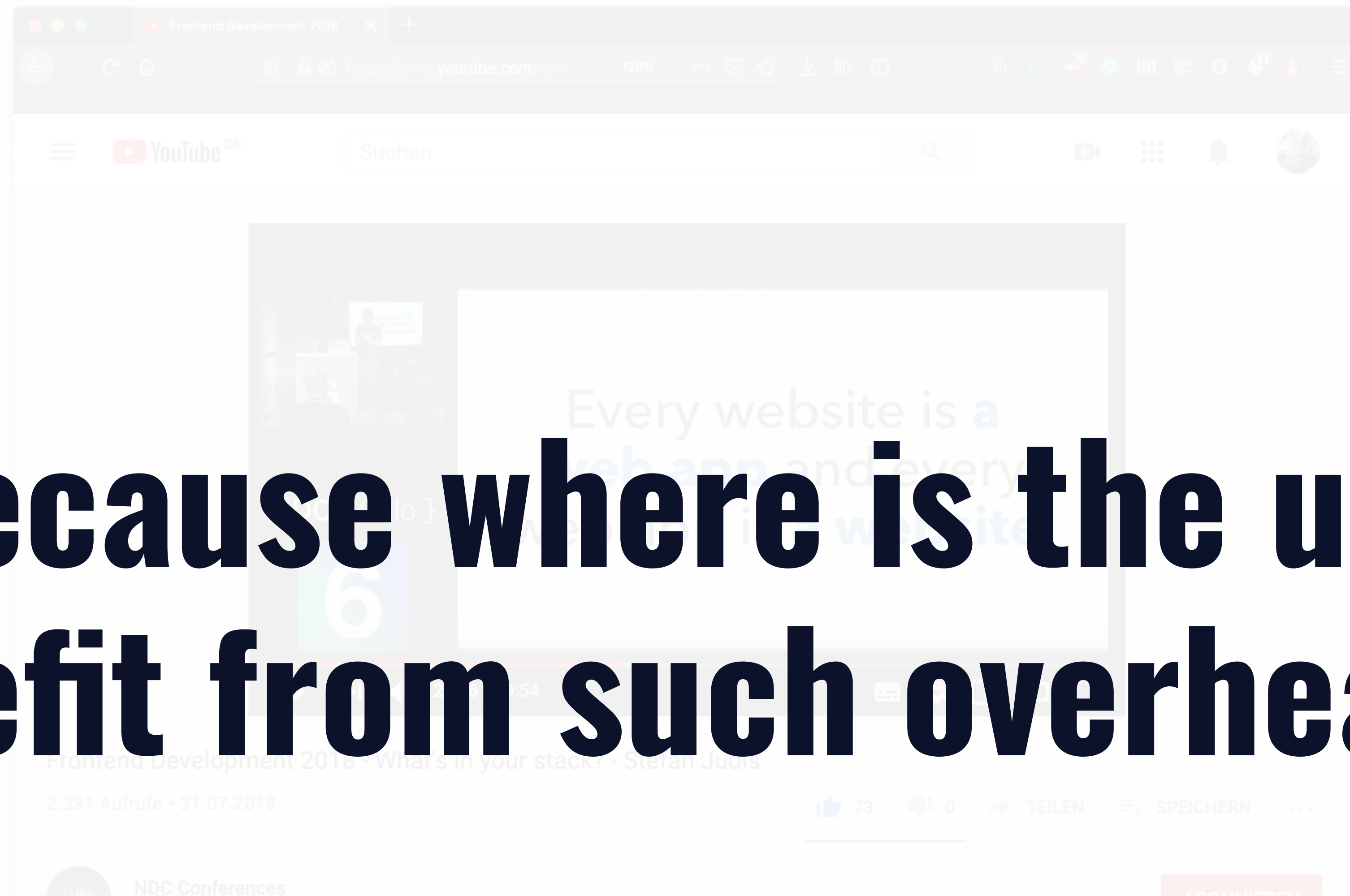
[www.youtube.com/watch?v=88K8oO\\_dYbl](https://www.youtube.com/watch?v=88K8oO_dYbl)

**Today, I 100% disagree  
with "past me", ...**



[www.youtube.com/watch?v=88K8oO\\_dYbl](https://www.youtube.com/watch?v=88K8oO_dYbl)

**... because where is the user's benefit from such overhead?**





**A common "best practice"**

**Universal JavaScript apps for  
content-sites**



```
<!doctype html>
<html lang="">

<head>
  <meta charset="utf-8">
  <title></title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="manifest" href="site.webmanifest">
  <link rel="apple-touch-icon" href="icon.png">
  <link rel="stylesheet" href="css/main.css">

  <meta name="theme-color" content="#fafafa">
</head>

<body>
  <p>Hello world!</p>
  <script src="js/plugins.js"></script>
  <script src="js/main.js"></script>
</body>
</html>
```



```
<!doctype html>
<html lang="">

<head>
  <meta charset="utf-8">
  <title></title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="manifest" href="site.webmanifest">
  <link rel="apple-touch-icon" href="icon.png">
  <link rel="stylesheet" href="css/main.css">

  <meta name="theme-color" content="#fafafa">
</head>

<body>
  <p>Hello world!</p>
  <script src="js/app-bundle-hash1.js"></script>
  <script src="js/app-bundle-hash2.js"></script>
  <script src="js/app-bundle-hash3.js"></script>
  <script>window.__data__ = { greeting: "Hello world!" }</script>
</body>
</html>
```





```
<!doctype html>
<html lang="">

<head>
  <meta charset="utf-8">
  <title></title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width, initial-scale=1">

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  <link rel="apple-touch-icon" href="icon.png">
  <link rel="stylesheet" href="css/main.css">
  <meta name="theme-color" content="#fafafa">
</head>

<body>
  <script>Hello world!</script>
  <script src="/js/main.js"></script>
  <script src="/js/vendor.js"></script>
  <script>window.__data__ = { greeting: "Hello world!" }</script>
</body>
</html>
```

# The same code runs on the server and on the client!



# Your content in HTML

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[Bash](#)

Feb 14 2020  
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[JavaScript](#) [HTML](#)

Feb 05 2020  
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[macOS](#)

**Popular posts**

May 06 2018  
**Non-capturing groups in regular expressions**  
[JavaScript](#) [//gi](#) [Regular Expressions](#)

Mar 18 2018  
**lookaheads (and lookbehinds) in JavaScript regular expressions**  
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Jul 23 2019  
**Easier designers & developers collaboration using visbug with Adam Argyle**  
[Tools](#) [CSS](#)

Jul 04 2019  
**"It's all about the buffers" with Mudit Ameta**  
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**Latest talks**

**Regular Expressions – my secret love** ( [Slides](#) / [Recording](#) )  
[//gi](#) [Regular Expressions](#) [JavaScript](#)

**Write a Function** ( [Slides](#) / [Recording](#) )  
[JavaScript](#) [Serverless](#)

**React in a worker, worker, worker...** ( [Slides](#) / [Recording](#) )  
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# The same content in JavaScript

[Home](#)[Blog](#)[Resources](#)[Talks](#)[Smalltalk](#)[Today I learned](#)

## Heyo, I'm Stefan! I write and speak about web technology.

**Blog**

Feb 03 2020  
**Monthly Digest January 2020**  
My favorite content of January 2020 – enjoy!  
[Newsletter](#)

Jan 04 2020  
**Monthly Digest December 2019**  
My favorite content of December 2019 – enjoy!  
[Newsletter](#)

Dec 05 2019  
**Monthly Digest November 2019**  
My favorite content of November 2019 – enjoy!  
[Newsletter](#)

**Today I learned**

Mar 01 2020  
**button elements offer attributes to change form behavior**  
[HTML](#)

Feb 26 2020  
**How to quickly fail bash scripts using set**  
[Bash](#)

Feb 14 2020  
**requestSubmit offers a way to validate a form before submitting it**  
[JavaScript](#) [HTML](#)

Feb 05 2020  
**The macOS screenshot area is draggable**  
[macOS](#)

**Popular posts**

May 06 2018  
**Non-capturing groups in regular expressions**  
[JavaScript](#) [//gi](#) [Regular Expressions](#)

Mar 18 2018  
**lookaheads (and lookbehinds) in JavaScript regular expressions**  
[JavaScript](#) [//gi](#) [Regular Expressions](#)

Feb 09 2018  
**Node.js sends warnings when you add too many listeners to an event emitter**  
[Node.js](#)

Oct 24 2016  
**aria-selected – when (not) to use it**  
[Accessibility](#)

**Projects**

**tiny-helpers.dev**  
A collection of free single-purpose online tools for web developers  
[Tools](#)

**CSS Scroll shadows**  
A tool to create CSS scroll shadows quickly.  
[CSS](#) [Serverless](#)

**Performance Tooling Today**  
A searchable resource collection all about web performance including articles, talks, slides and more...  
[Performance](#)

**Developer Smalltalk**

Jan 15 2020  
**How to import API data in Google Sheets and visualize it in Google Data Studio**  
[Tools](#)

Aug 07 2019  
**"Org mode is plain text on steroids" with Mudit Ameta**  
[Tools](#) [CSS](#)

Jul 23 2019  
**Easier designers & developers collaboration using visbug with Adam Argyle**  
[Tools](#) [CSS](#)

Jul 04 2019  
**"It's all about the buffers" with Mudit Ameta**  
[Tools](#)

**Latest talks**

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[//gi](#) [Regular Expressions](#) [JavaScript](#)

**Write a Function** ( [Slides](#) / [Recording](#) )  
[JavaScript](#) [Serverless](#)

**React in a worker, worker, worker...** ( [Slides](#) / [Recording](#) )  
[JavaScript](#)

**HTTP headers for the responsible developer** ( [Slides](#) / [Recording](#) )  
[Performance](#) [Web](#)

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**Is this really  
the best way for the user?**

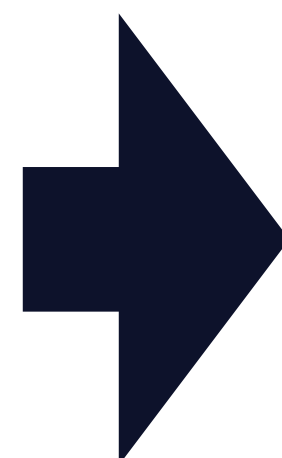


**"This architecture offers doors  
to progressive enhancement!"**



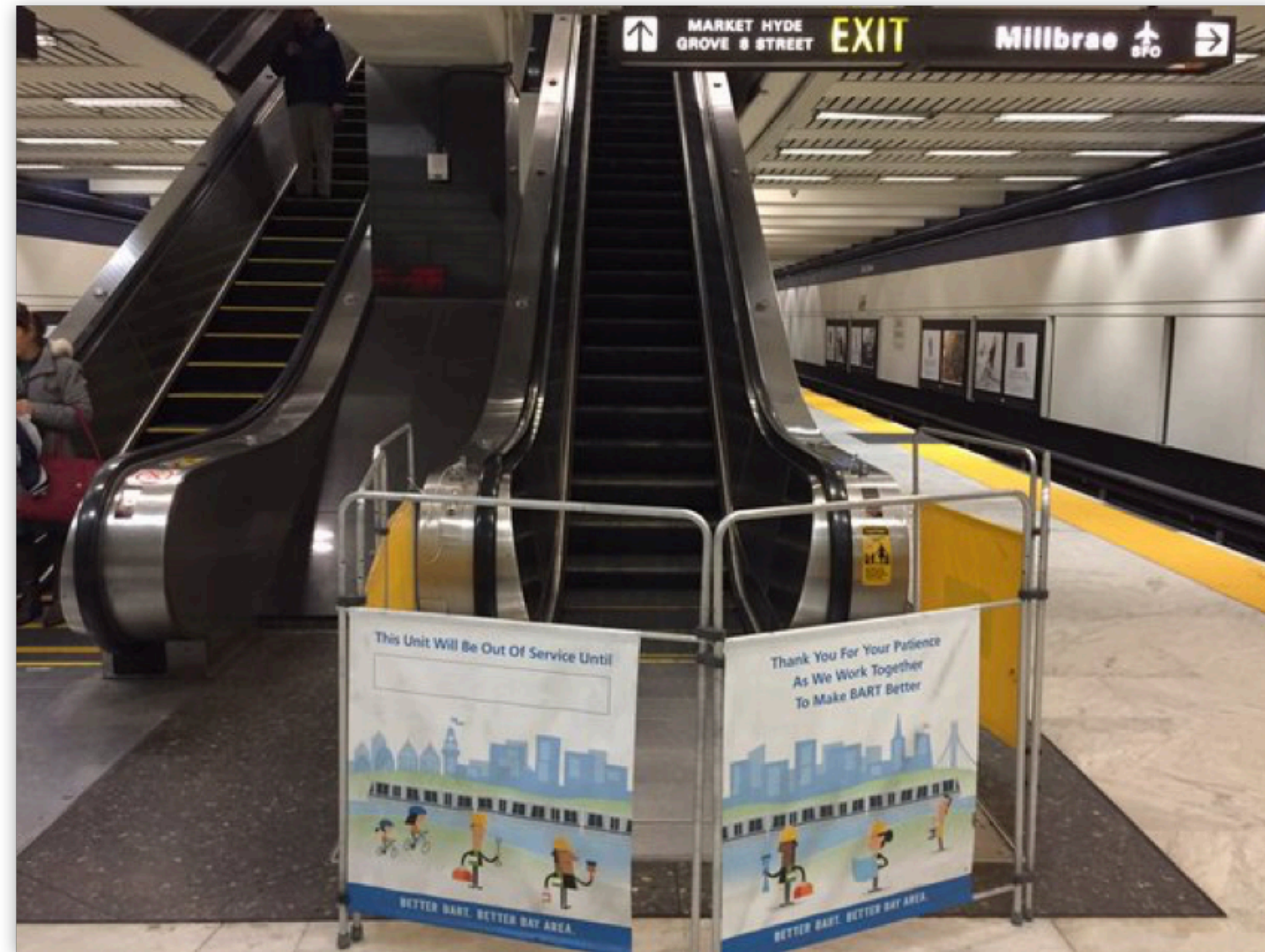
**Base functionality**

**Enhanced experience**



**If the enhancement fails, it still works!**







Search result for "css" | Perfor

Not Secure | perf-tooling.today/tools?q=

START

TOOLS

ARTICLES

VIDEOS

SLIDES

BOOKS

COURSES

AUDITS

### List of performance tools

Search all 183 tools

#### Adept

A Bash script to automate adaptive JPEG compression using common CLI tools

376

images

compression

#### analyze-css

CSS selectors complexity and performance analyzer





Updated URL

Search result for "css" | Perform × +




Not Secure perf-tooling.today/tools?q=css ☆

START **TOOLS** ARTICLES VIDEOS SLIDES BOOKS COURSES AUDITS

### List of performance tools

#### analyze-css

CSS selectors complexity and performance analyzer

 628☆  15☆  628☆

#### Calibre (Paid)

Continuous website quality and performance telemetry

Submittable form

Updated search results



[twitter.com/philhawksworth/status/990890920672456707](https://twitter.com/philhawksworth/status/990890920672456707)

**13 MILLION**  
**REQUESTS FOR JAVASCRIPT**  
**WILL TIMEOUT**

**Buzzfeed**







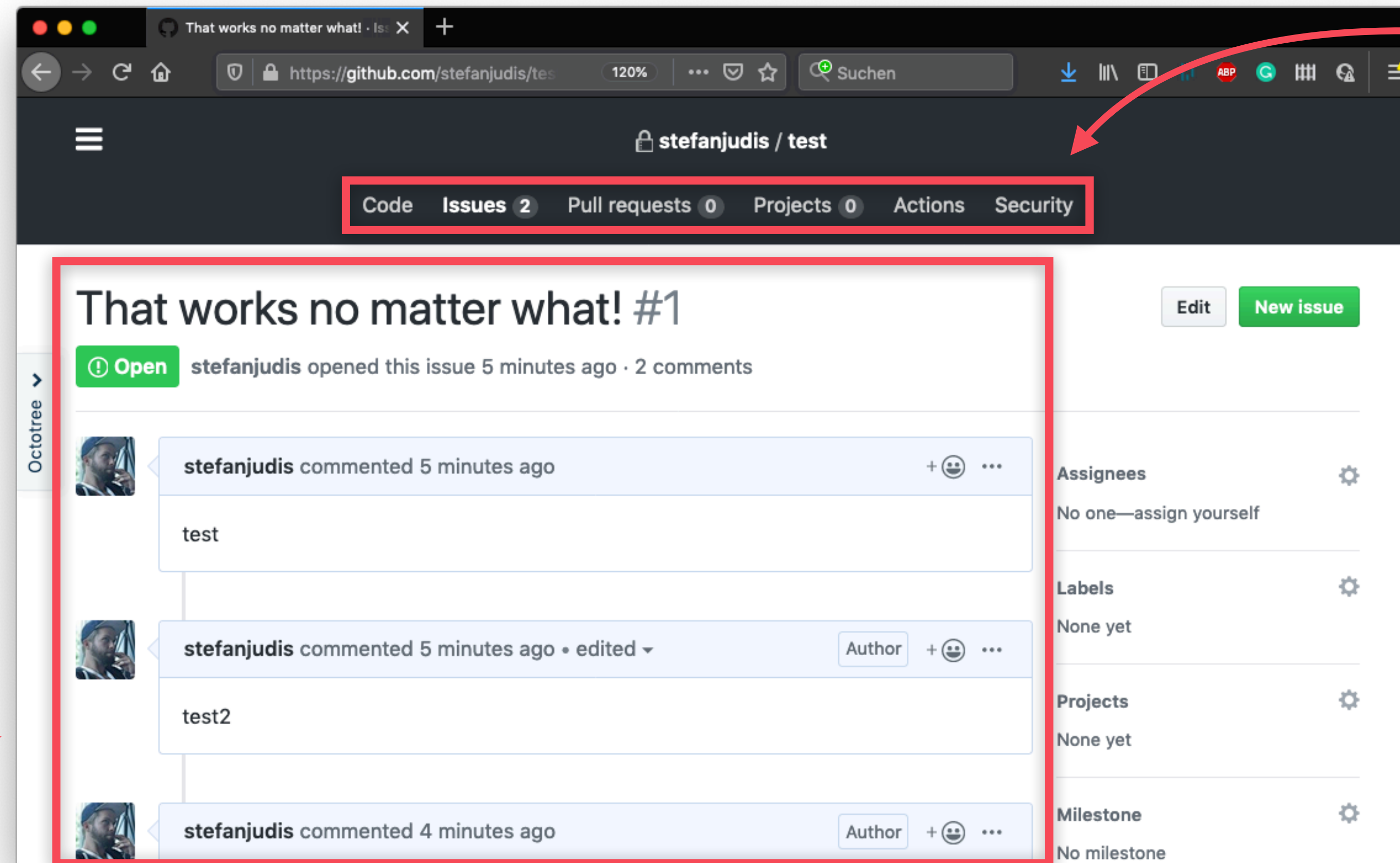
**"We don't have any non-JavaScript users"**  
**No, all your users are non-JS while**  
**they're downloading your JS.**

Jake Archibald



github.com

Five "old school"  
HTML links



POST github.com/stefanjudis/test/issue\_comments  
handles a form and AJAX submit



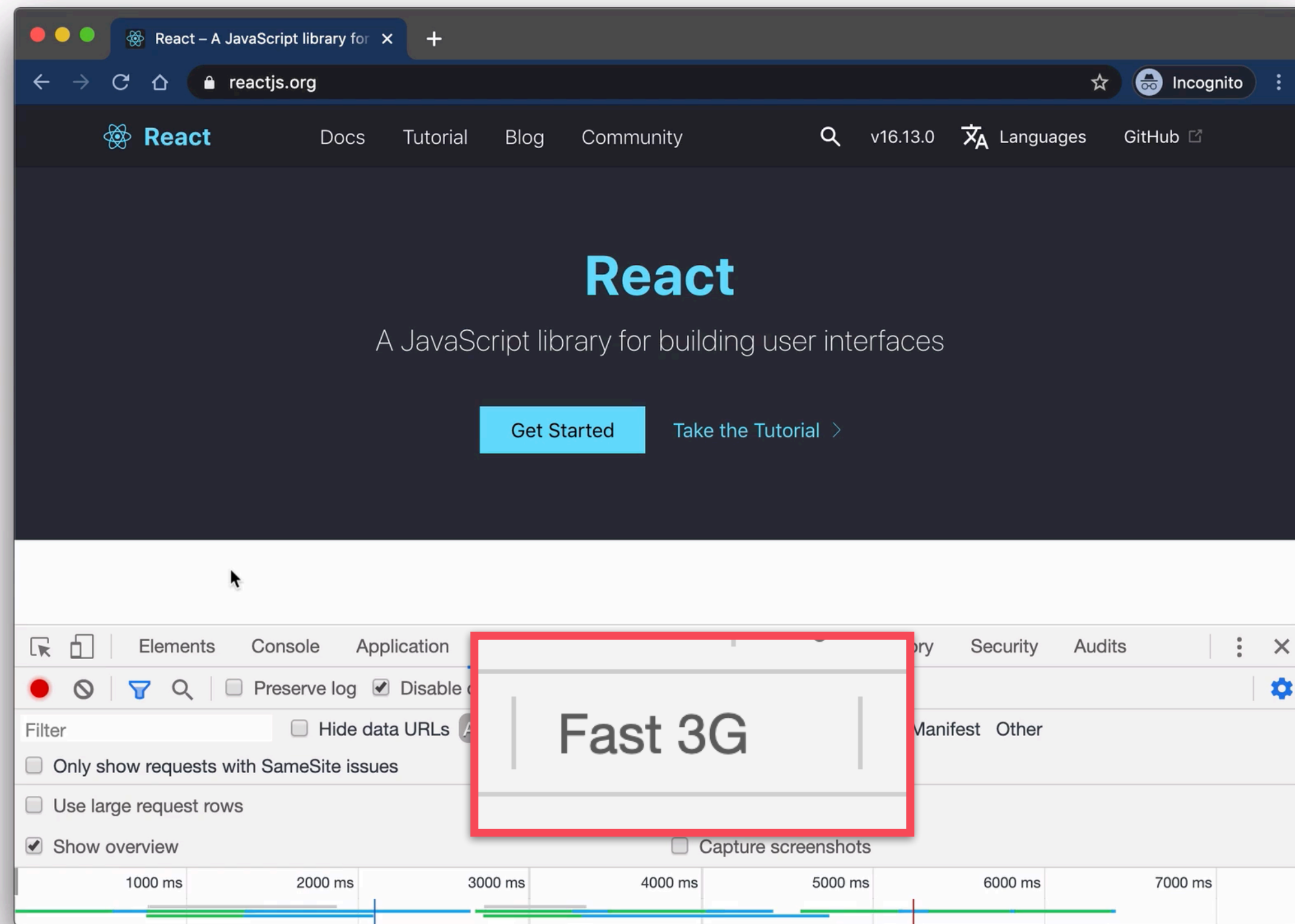
**I'm happy with GitHub's experience.**

**A good site "just works".™**

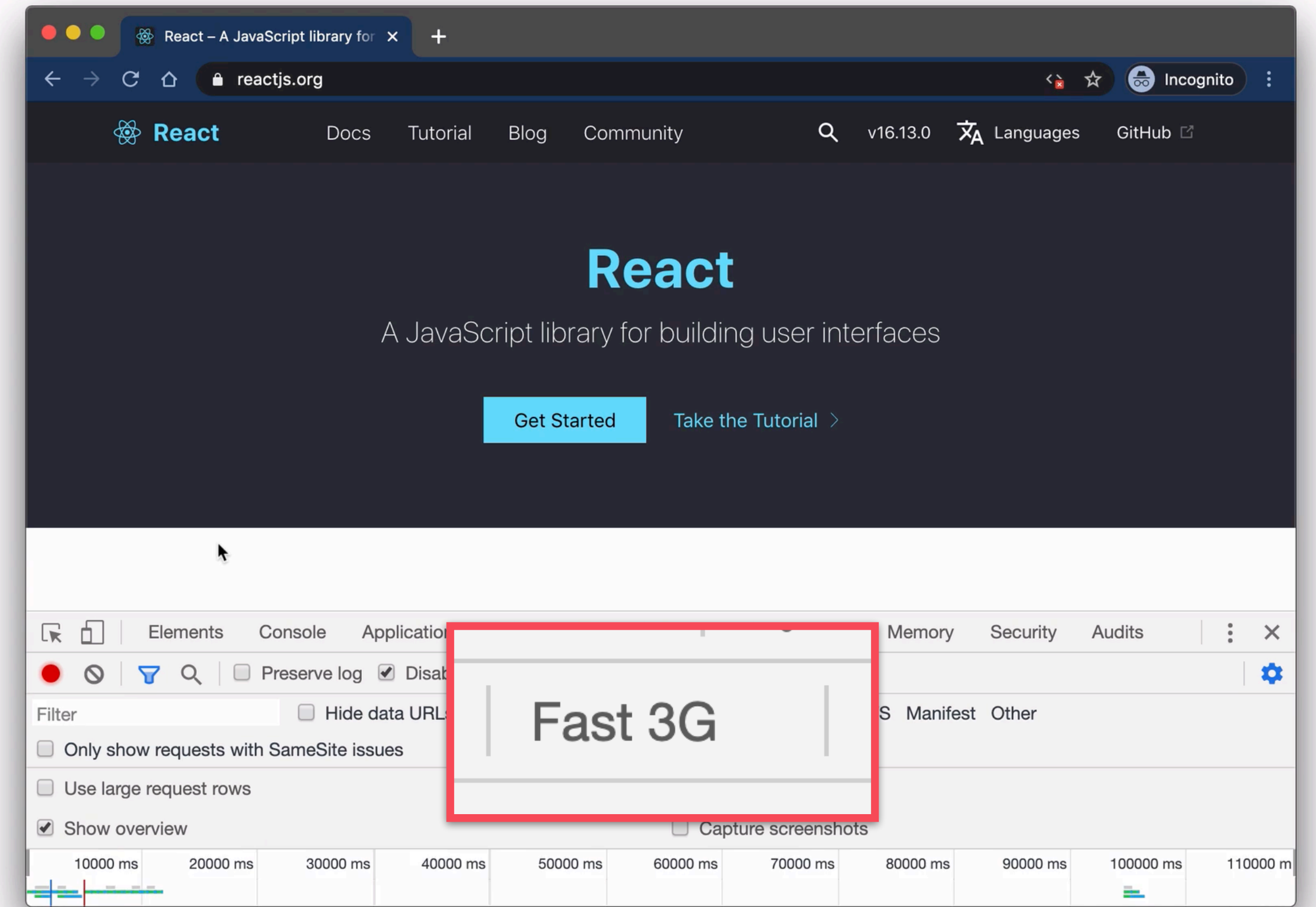


**What's the enhancement  
in the wild, though?**

# reactjs.org with JavaScript



# reactjs.org without JavaScript



**433KB / 1.1MB**

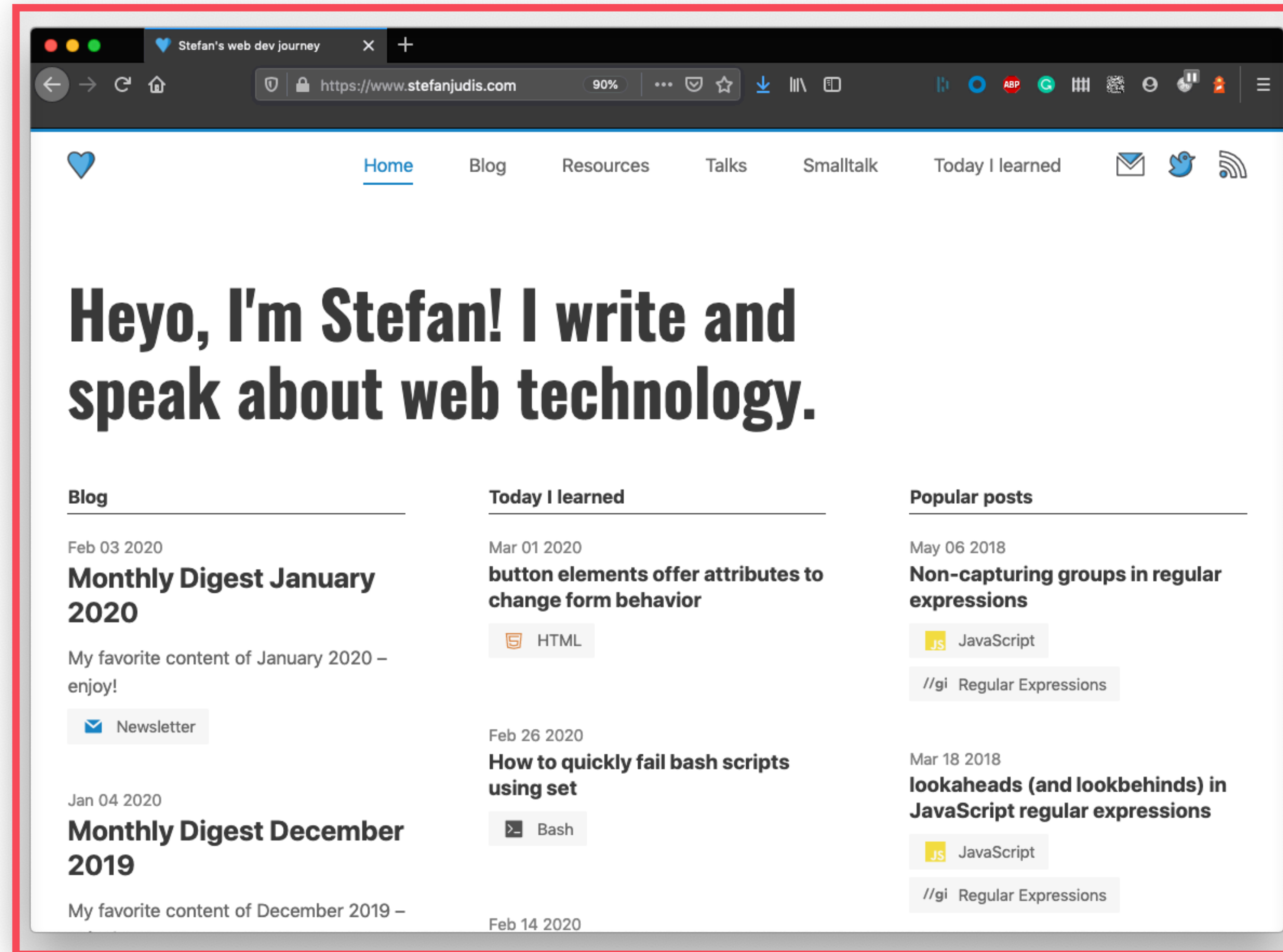
Initial weight

**49KB / 175KB**

**547KB / 2.3MB**

Weight after  
4 navigations

**100KB / 1.0MB**

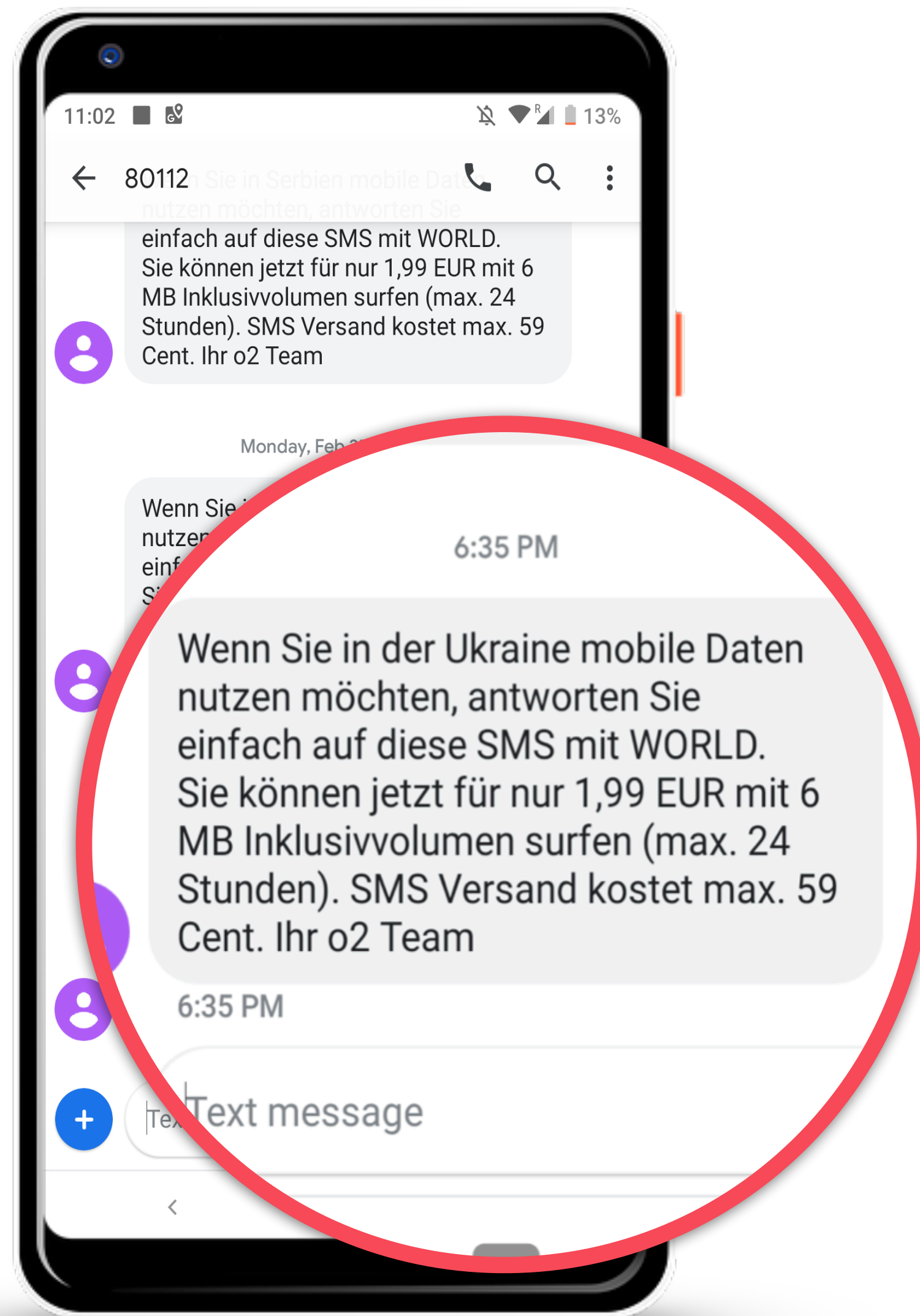


I'm guilty of that, too!





**Does this architecture  
improve user experience?**



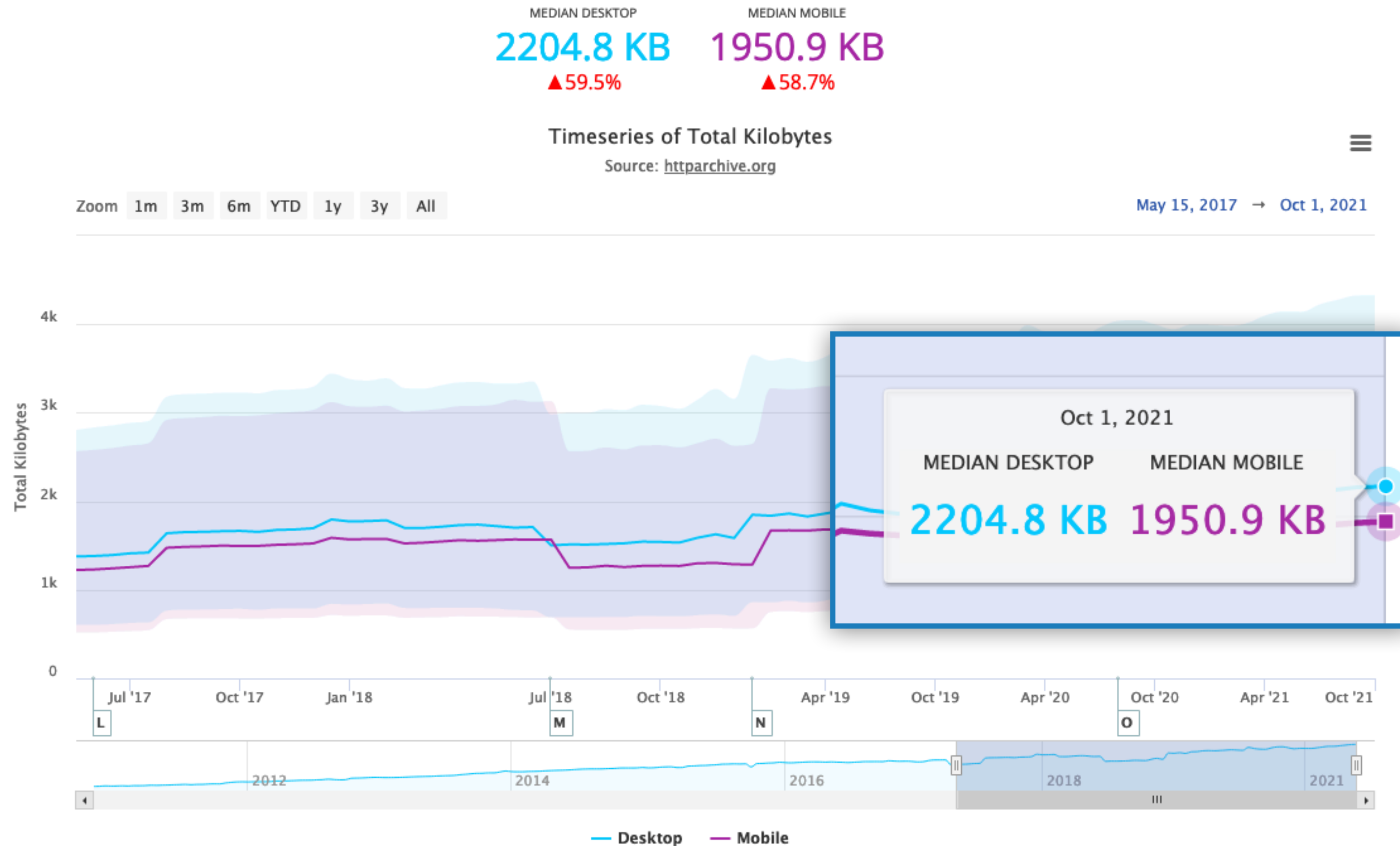


You get **6MB** for **2Euros** but  
you have only **24h** to  
use them! Right...



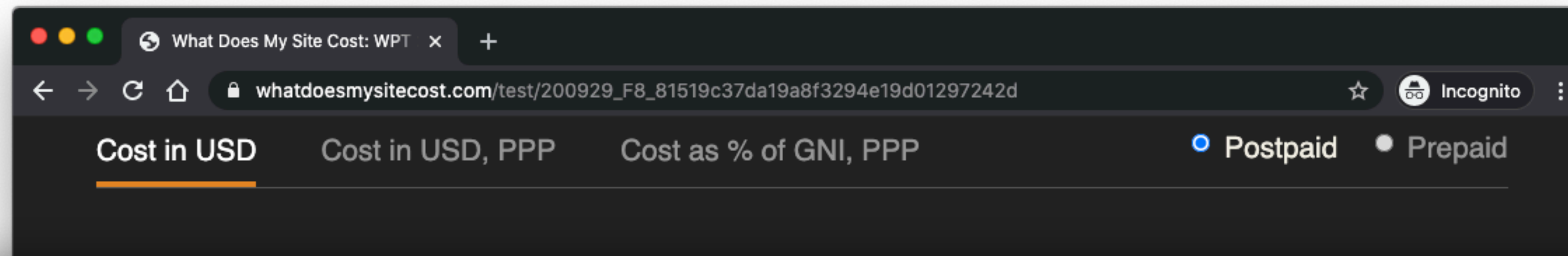


# <httparchive.org/reports/state-of-the-web>





whatdoesmysitecost.com



<https://www.spiegel.de/> weighs **2.16MB**. Here's what that costs around the globe.

expensive plan with a (minimum) data allowance of 500 MB over (a minimum of) 30 days. Prices include taxes. Because these numbers are based on the least expensive plan, they are **best case scenarios**.

Country	Cost (in USD)
Canada	\$0.26
Japan	\$0.18
Brazil	\$0.18
Germany	\$0.17
United States	\$0.07





[httparchive.org/reports/state-of-the-web](http://httparchive.org/reports/state-of-the-web)

MEDIAN DESKTOP  
**1957.8 KB**  
▲318.6%

MEDIAN MOBILE  
**1791.9 KB**  
▲1137.5%

Timeseries of Total Kilobytes

Source: [httparchive.org](http://httparchive.org)

Zoom 1m 3m 6m YTD 1y 3y All

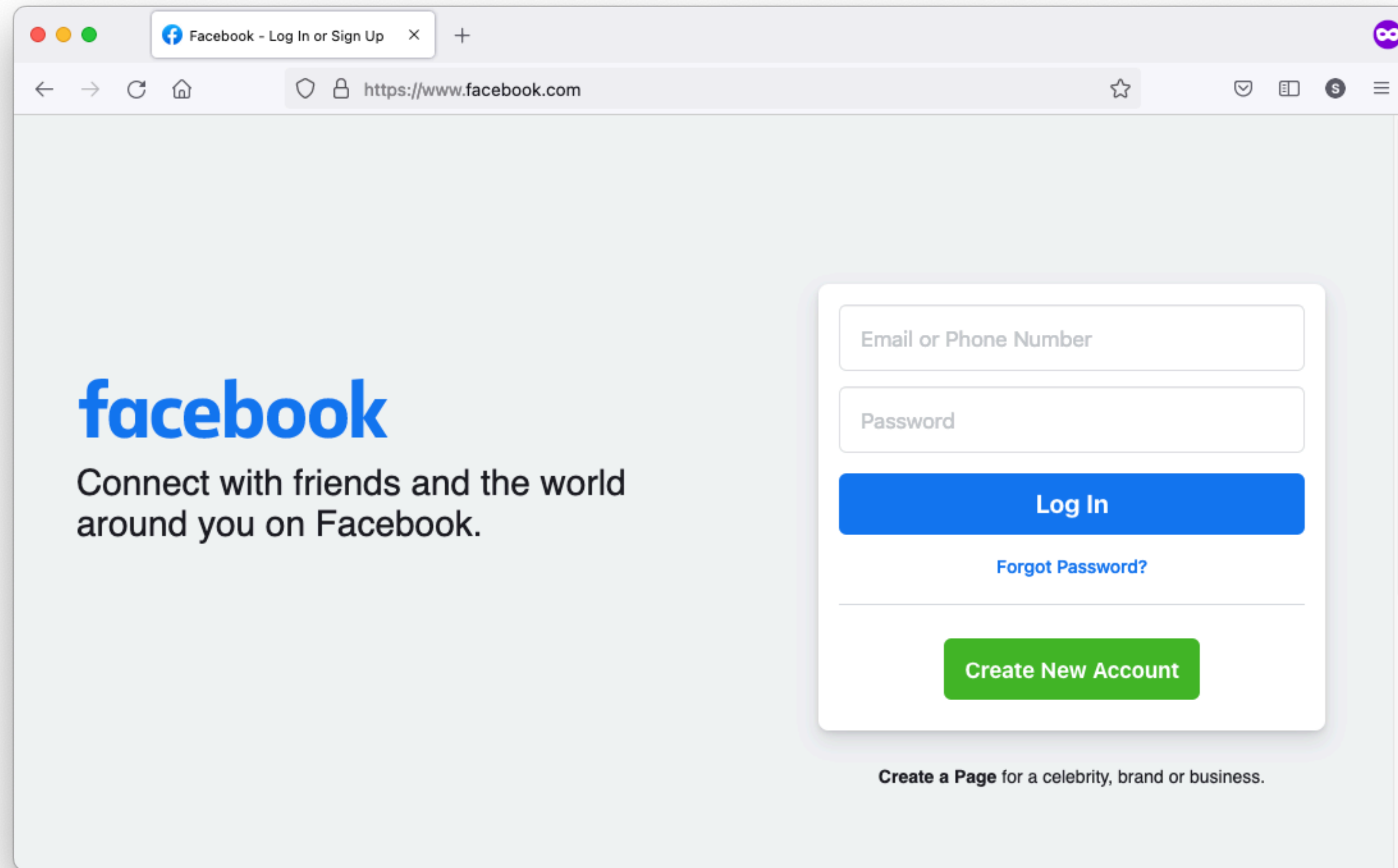
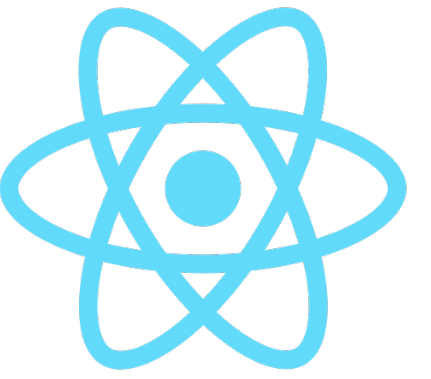
From Nov 15, 2010 To Feb 1, 2020

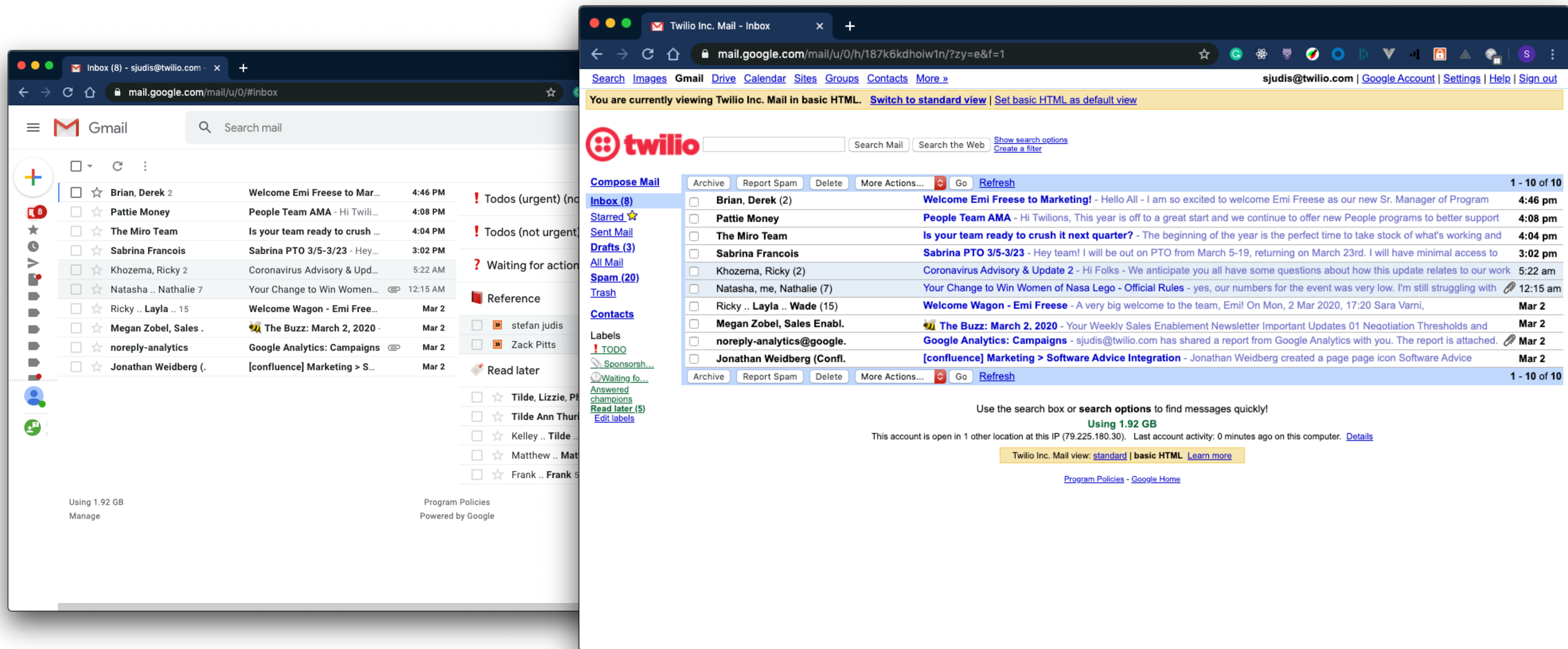
# We ship more data for the same experience...





**Maybe app frameworks  
are for apps after all?**





5.2MB / 17MB

25KB / 40KB





## Library

jQuery

jQuery Migrate

jQuery UI

Modernizr

Fancybox

Lightbox

Slick

Moment.js



**Stefan Judis**  
@stefanjudis

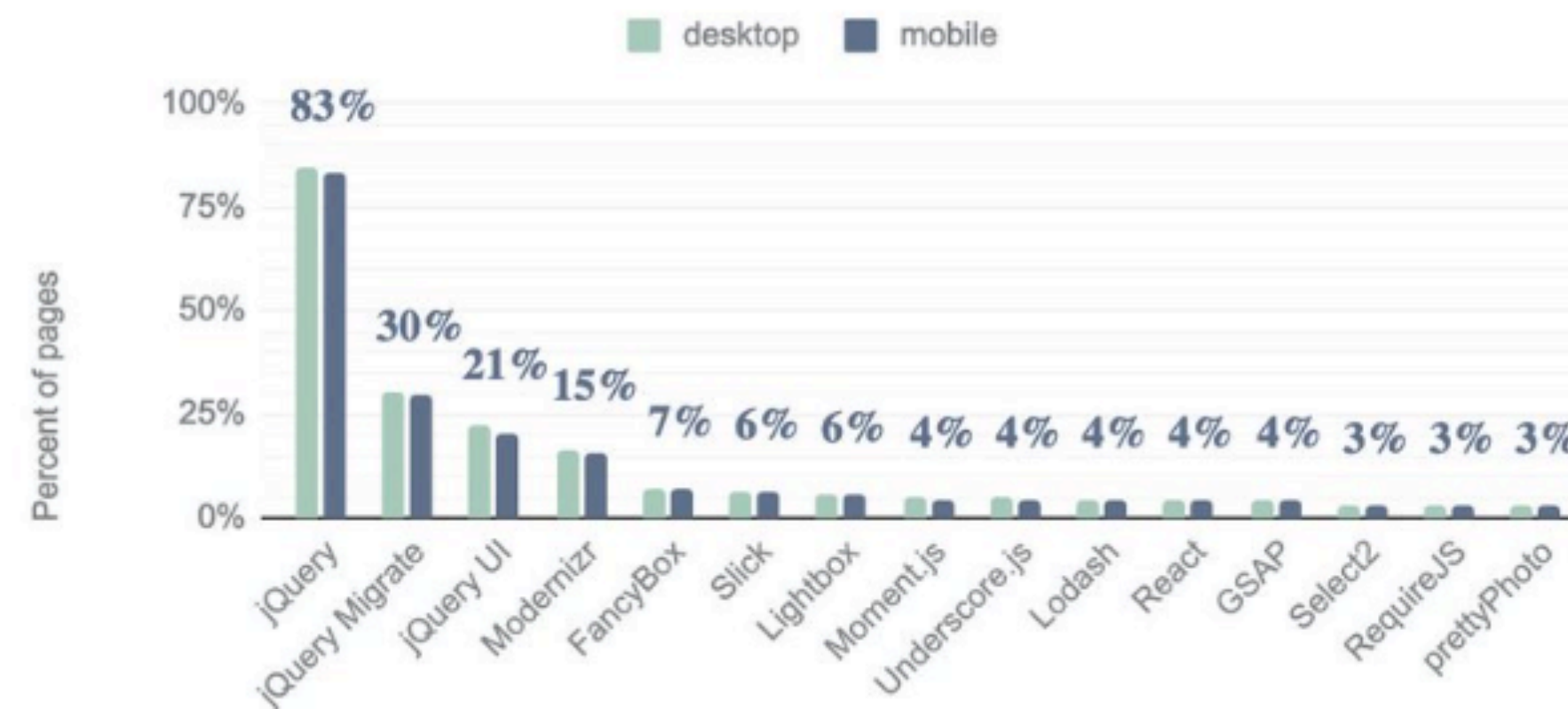
...

Antwort an [@stefanjudis](#)

The  
web  
is  
jQuery!

### Adoption of the top JS frameworks and libraries

Web Almanac 2020: JavaScript



ALT

JS frameworks and libraries

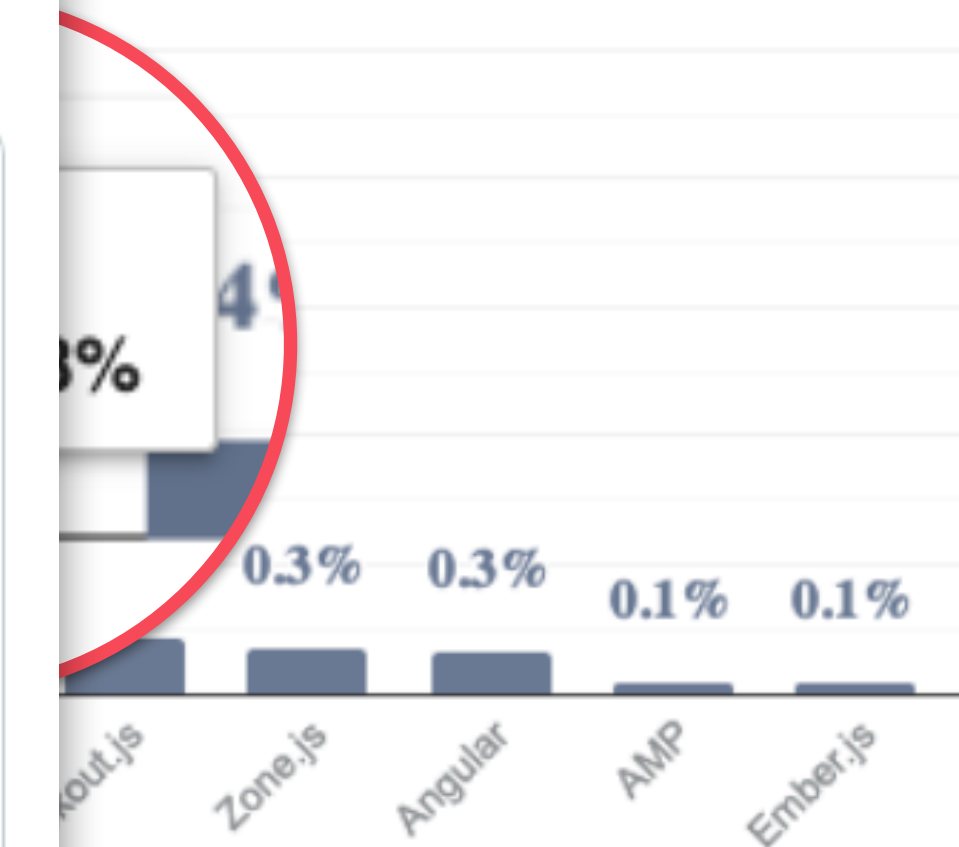
12:09 vorm. · 10. Dez. 2020 · Twitter Web App

||| Tweet-Aktivität anzeigen

24 Retweets 10 Zitierte Tweets 84 „Gefällt mir“-Angaben

### Frameworks on desktop

9: JavaScript



framework



**The web is not as  
cutting-edge as it seems...**





**... boring is beautiful!**  
**(and fast)**



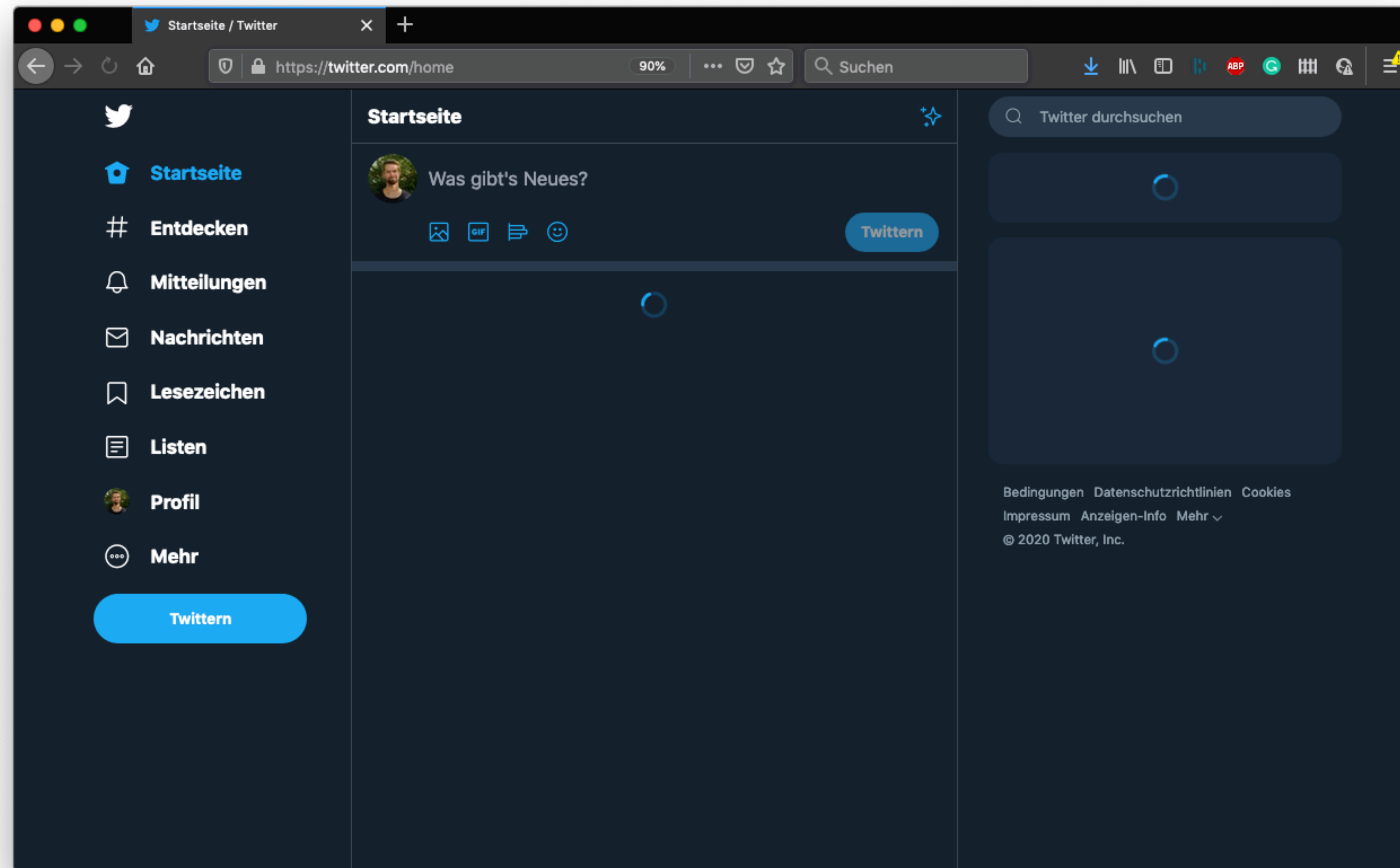
# **"Benefits" of client-side routing**



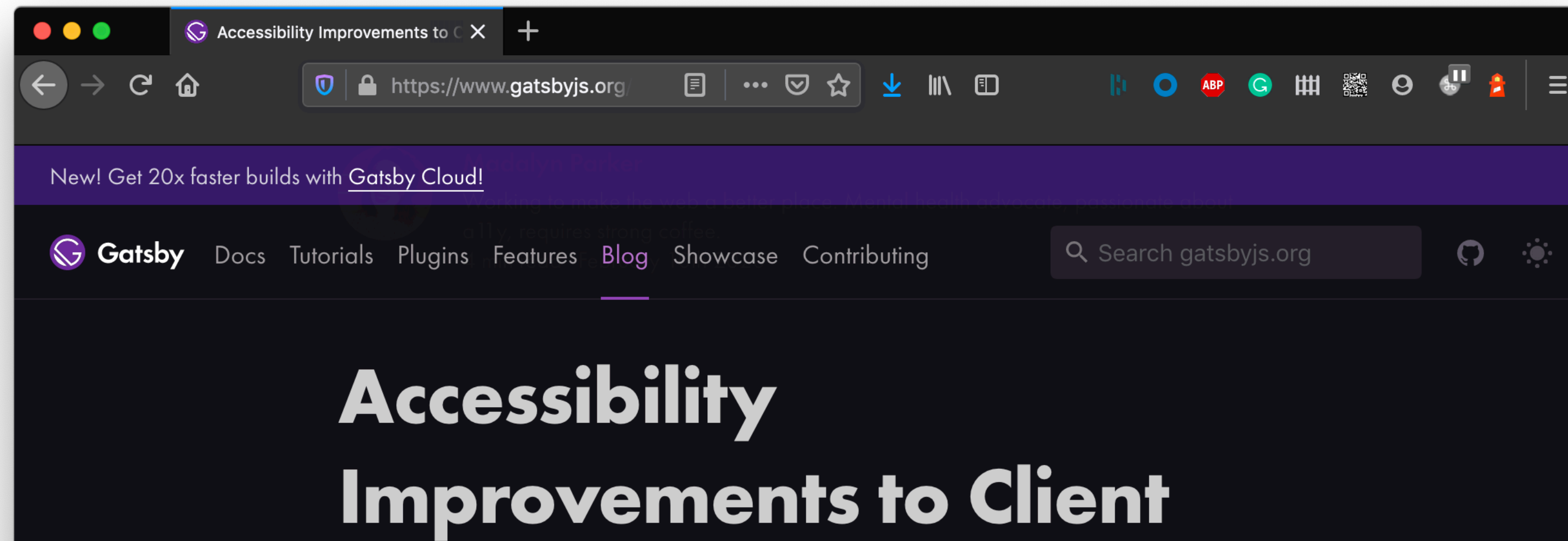
**Developers are "allowed"  
to re-implement  
an accessible navigation**



twitter.com



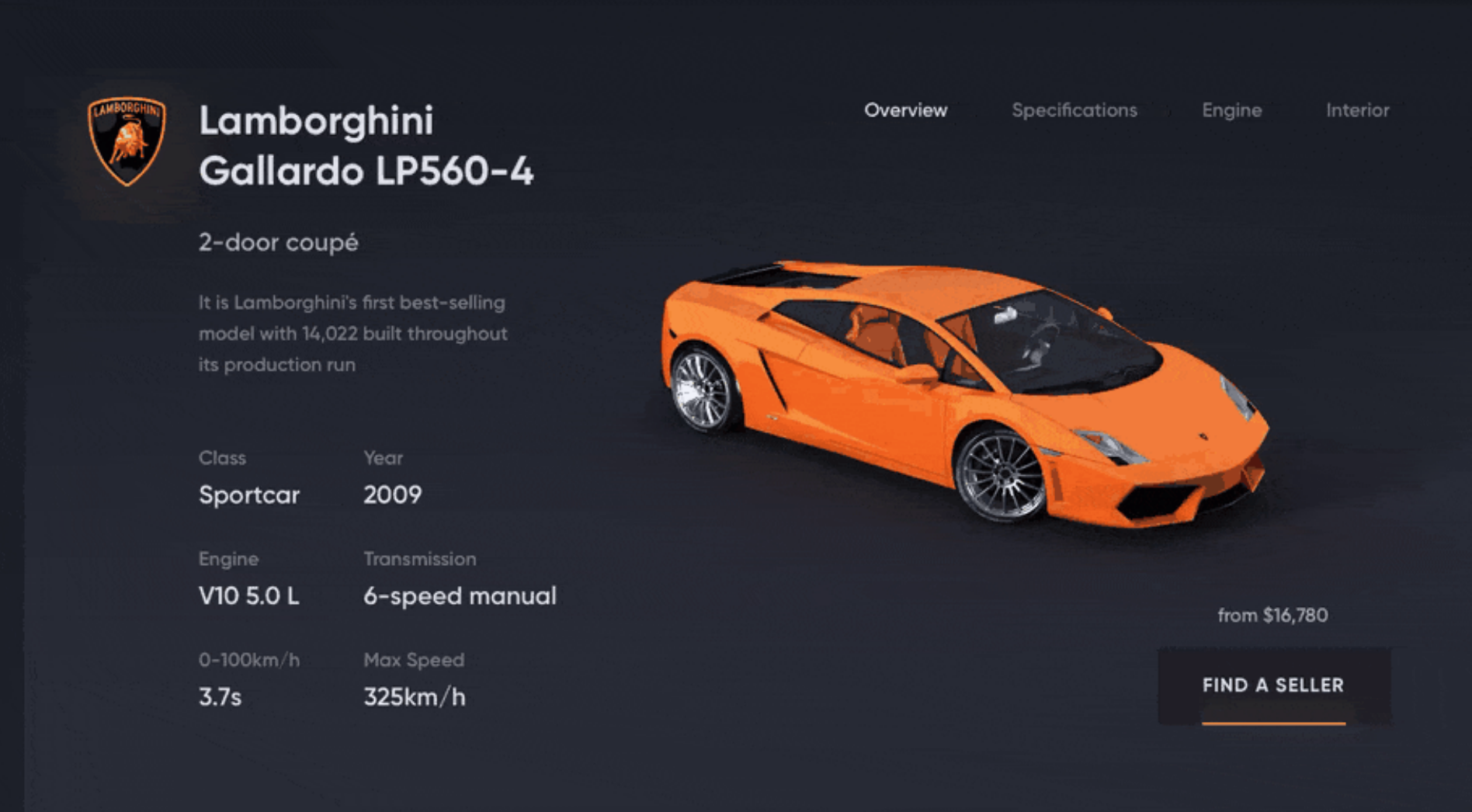
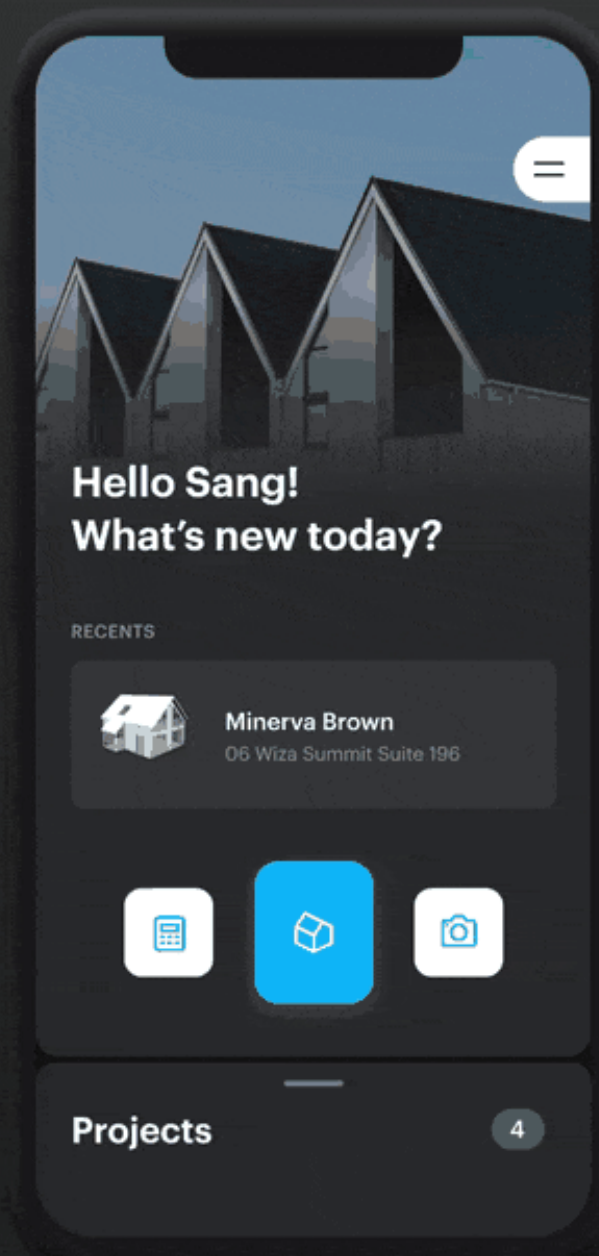
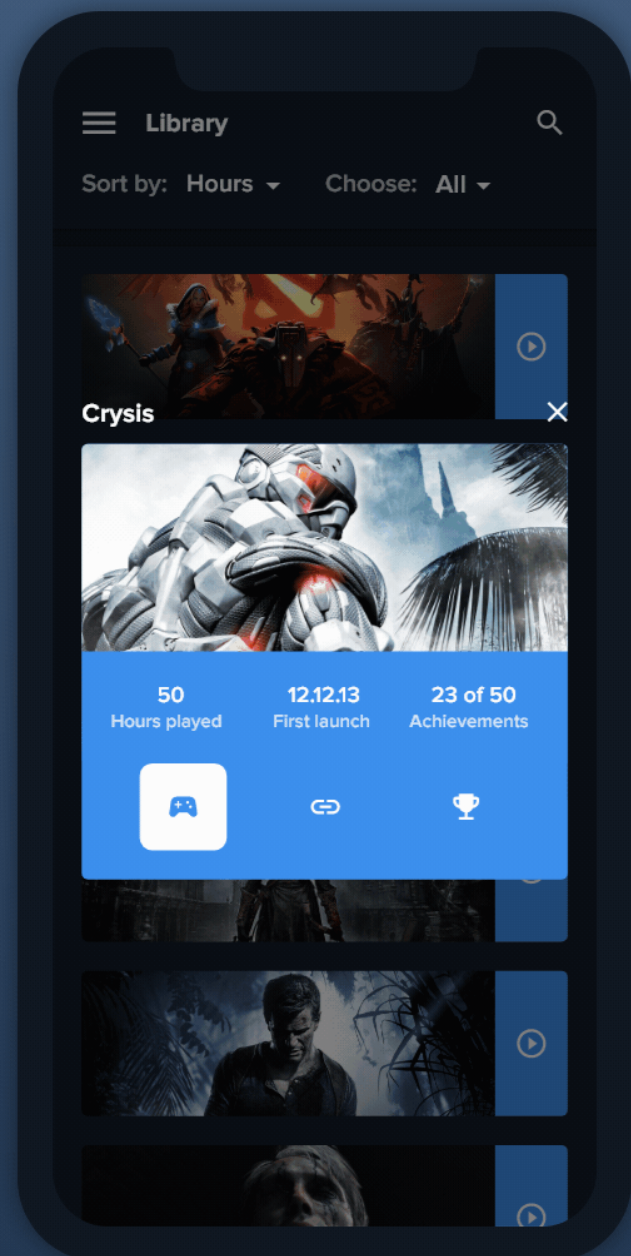
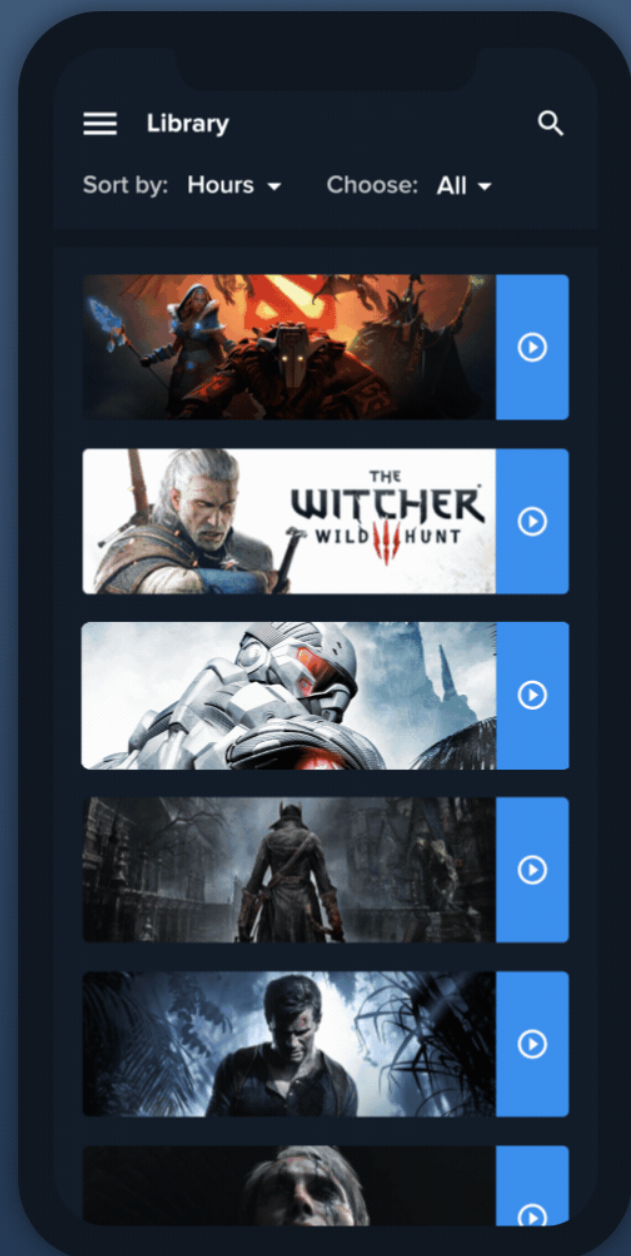
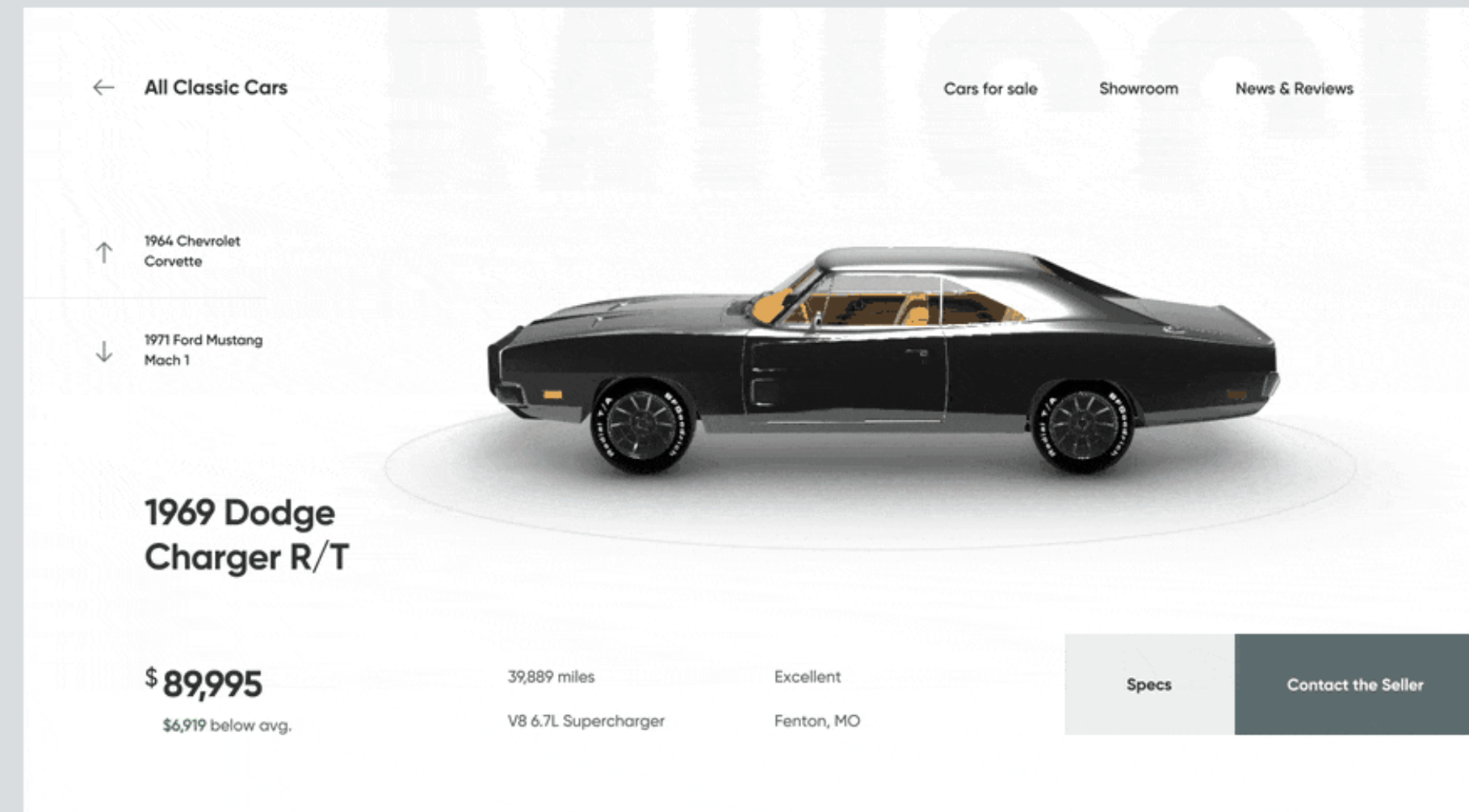
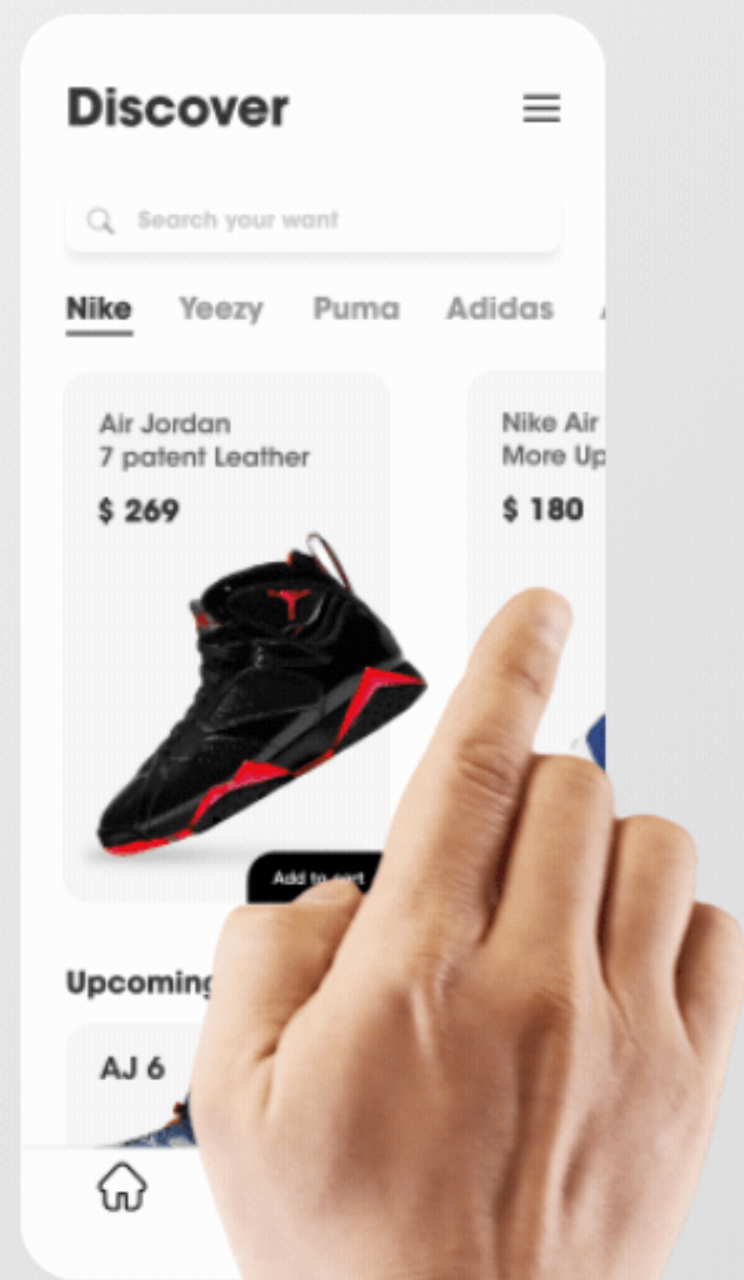
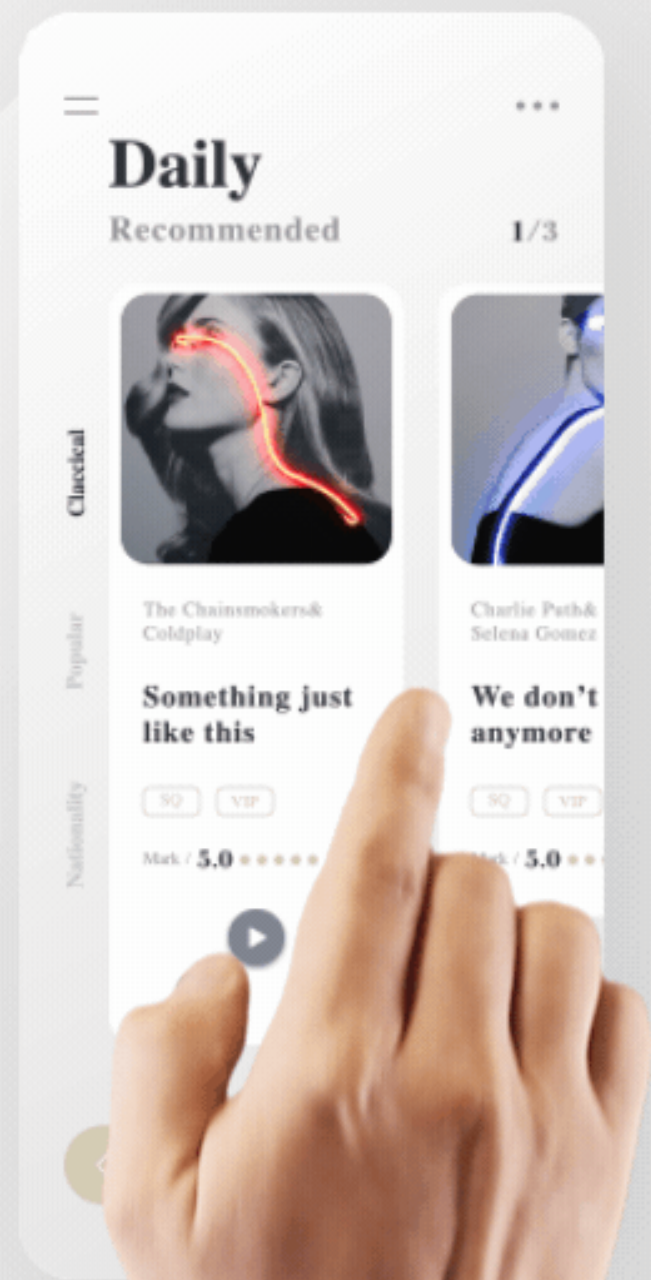
[www.gatsbyjs.org/blog/2020-02-10-accessible-client-side-routing-improvements/](https://www.gatsbyjs.org/blog/2020-02-10-accessible-client-side-routing-improvements/)



- Provide a skip link that takes focus on a route change within the site, with a label that indicates what the link will do when activated: e.g. "skip to main navigation".
- Include an [ARIA Live Region](#) on page load. On a route change, append text to it indicating the current page, e.g. "Portfolio page".

Issue about assistive technology and navigation. It was opened way back in May 2018.











[github.com/sdras/page-transitions-travelapp](https://github.com/sdras/page-transitions-travelapp)

page-transitions-travelapp

localhost:3000

Sophia's HomeSophia's PlacesSophia's Group Trips





Follow

Sophia Gonzalez


Had a brief career with jack-in-the-boxes in Phoenix, AZ. Spent several months managing squirt guns and implementing toy elephants.

Followers

2748

Following

789



Honolulu

Rating: 8.9

Ocean breezes rustle palm trees along the harborfront, while in the cool, mist-shrouded Ko'olau Range, forested

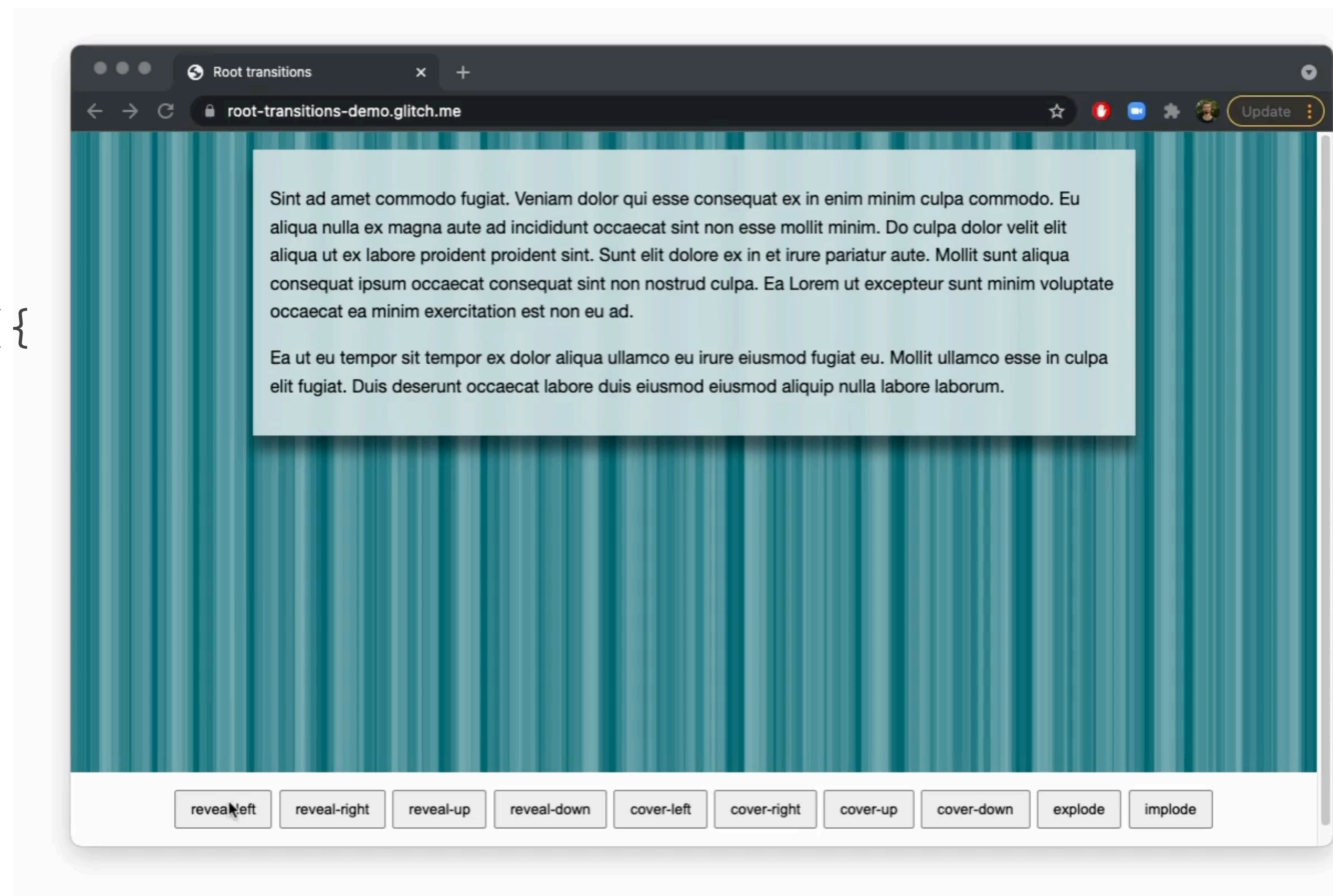
Checked in at Honolulu location





[developer.chrome.com/blog/shared-element-transitions-for-spas/](https://developer.chrome.com/blog/shared-element-transitions-for-spas/)

```
async function navigateToSettingsPage() {  
  await document.documentTransition.prepare({  
    rootTransition: 'cover-left',  
  });  
  
  updateDOMForSettingsPage();  
  await document.documentTransition.start();  
}
```



<chrome://flags/#document-transition>



**There's a chance I believe  
client side routing on the web  
is usually not preferred.  
Which is ironic.**

Ryan Florence (co-author React-Router)


[twitter.com/ryanflorence/status/1186515553285857280](https://twitter.com/ryanflorence/status/1186515553285857280)

# vuejs.org/v2/guide/installation.html

Installation — Vue.js

vuejs.org/v2/guide/installation.html

AppsCF BookmarksPrivate Contentful...Other Bookmarks

Vue.js

Learn ▾Ecosystem ▾TeamResources ▾Support Vue ▾Translations ▾

Vue Devtools

Direct <script> Include

CDN

NPM

CLI

Explanation of Different Builds

Terms

Runtime + Compiler vs. Runtime-only

Development vs. Production Mode

CSP environments

Dev Build

Bower

AMD Module Loaders


## Installation

### # Compatibility Note

Vue does **not** support IE8 and below, because it uses ECMAScript 5 features that are un-shimmable in IE8. However it supports all **ECMAScript 5 compliant browsers**.

### # Semantic Versioning

Vue follows **Semantic Versioning** in all its official projects for documented features and behavior. For undocumented behavior or exposed internals, changes are described in **release notes**.



Adobe Creative Cloud for Teams starting at \$33.99 per month.

ADS VIA CARBON



# vuejs.org/v2/guide/installation.html

Introduction — Vue.js

vuejs.org/v2/guide/index.html

Apps CF Bookmarks Private Contentful... Other Bookmarks


Introduction

What is Vue.js?

Vue (pronounced /vjuː/, like **view**) is a **progressive framework** for building user interfaces. Unlike other monolithic frameworks, Vue is designed from the ground up to be incrementally adoptable. The core library is focused on the view layer only, and is easy to pick up and integrate with other libraries or existing projects. On the other hand, Vue is also perfectly capable of powering sophisticated Single-Page Applications when used in combination with **modern tooling** and **supporting libraries**.

If you'd like to learn more about Vue before diving in, we **created a video** walking through the core principles and a sample project.

If you are an experienced frontend developer and want to know how Vue compares to other libraries/frameworks, check out the **Comparison with**



Slack brings the team together, wherever you are.

ADS VIA CARBON

Network

Filter XHR JS CSS Img Media Font Doc WS M

Only show requests with SameSite issues

2000 ms

4000 ms

Name	×	Headers	Response	»
index.html	4	<!DOCTYPE html>		
monetiza...	5	<html lang="en">		
docsearc...	6	<head><meta name="genera		
	7	<title>Introduction —		
	8	<meta charset="utf-8">		
40 requests	{ }	Line 1, Column 1		



**We use too much  
JavaScript!**



astro.build

kit.svelte.dev

The image shows two overlapping browser windows. The left window displays the Astro website at <https://astro.build>. It features a video player with the title "Astro in 100 Seconds" and the Astro logo. Below the video is a "MORE VIDEOS" button. The right window displays the SvelteKit website at <https://kit.svelte.dev>. It features the SvelteKit logo, the tagline "THE FASTEST WAY TO BUILD SVELTE APPS", and a 3D rendering of a circuit board. Below the main content are two call-to-action boxes: "Powered by Svelte" with a "learn Svelte" button, and "Best of both worlds" with a "read the docs" button.

**Build faster websites with less client-side Javascript**



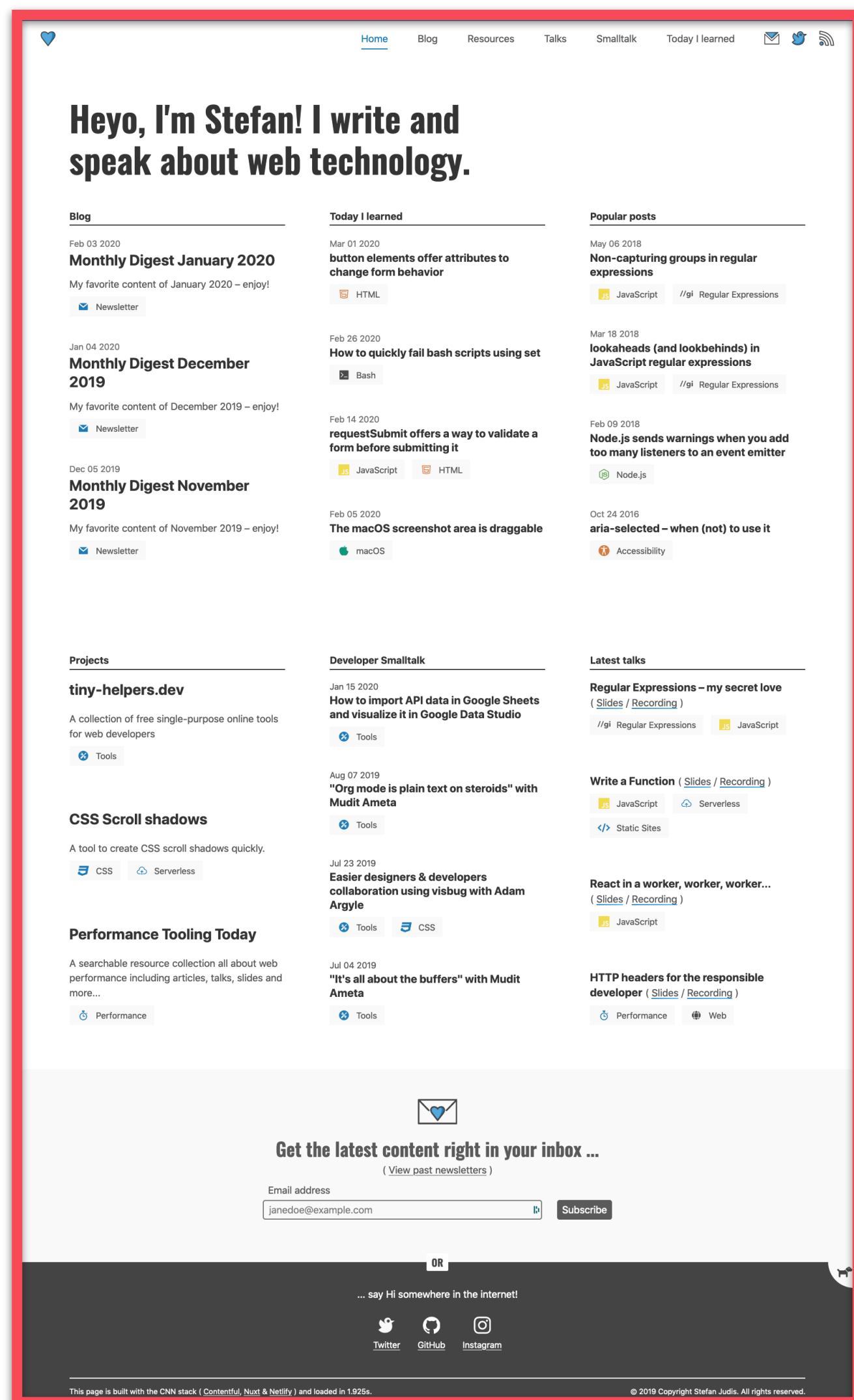
**The modern web seems to focus  
an awful lot on JavaScript.  
We don't think it has to [...].**

astro.build

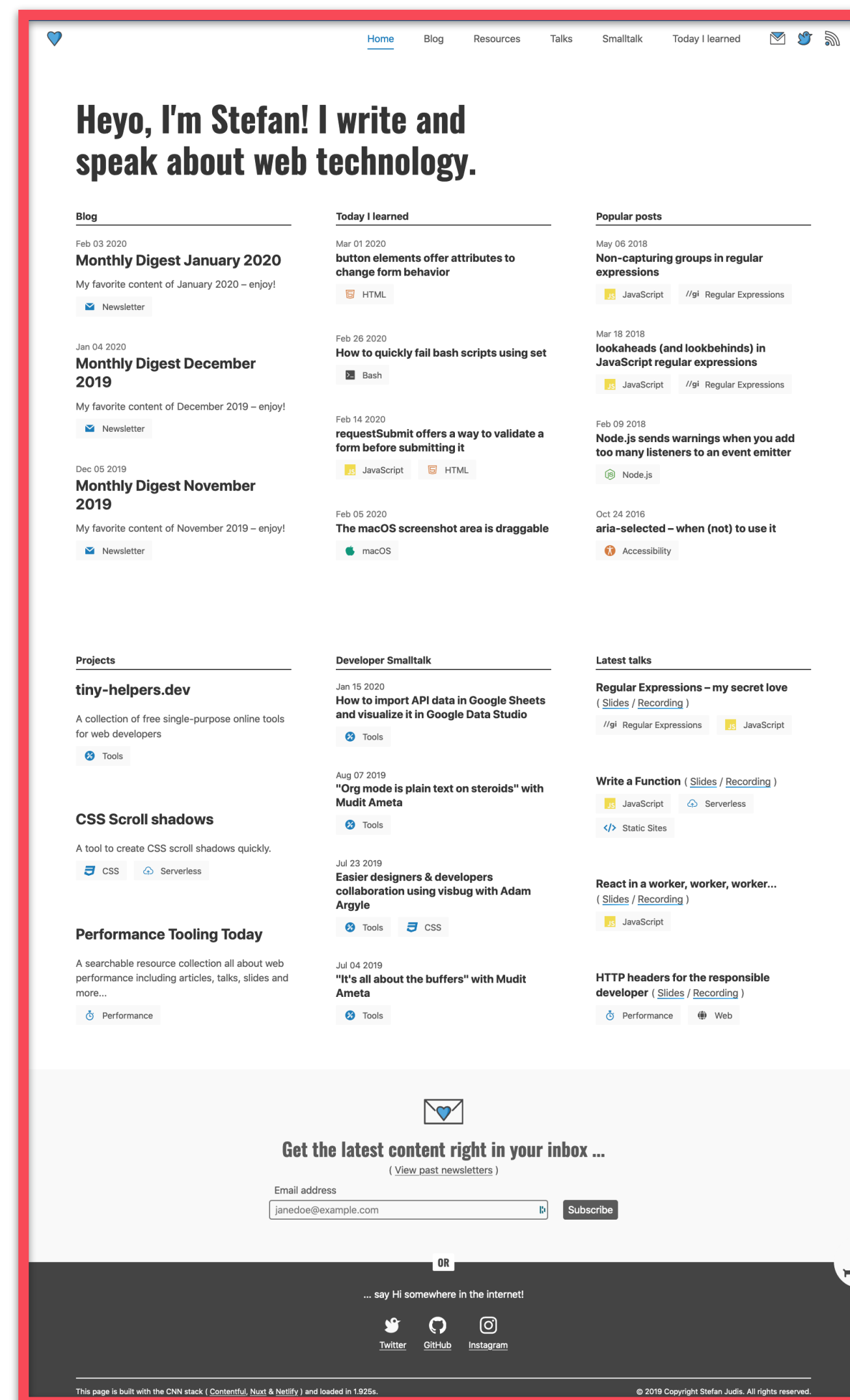




# Your content in HTML



# The same content in JavaScript



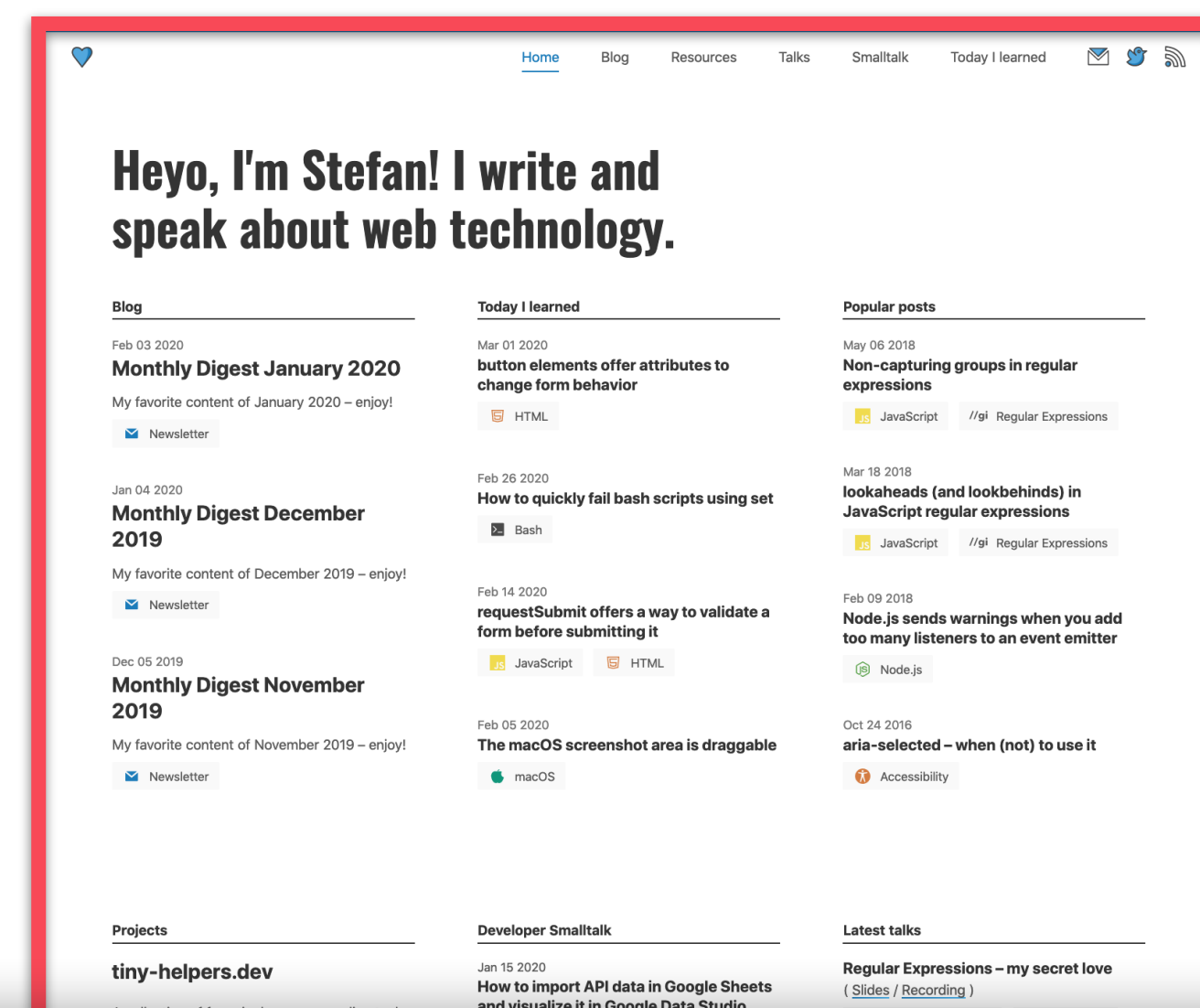
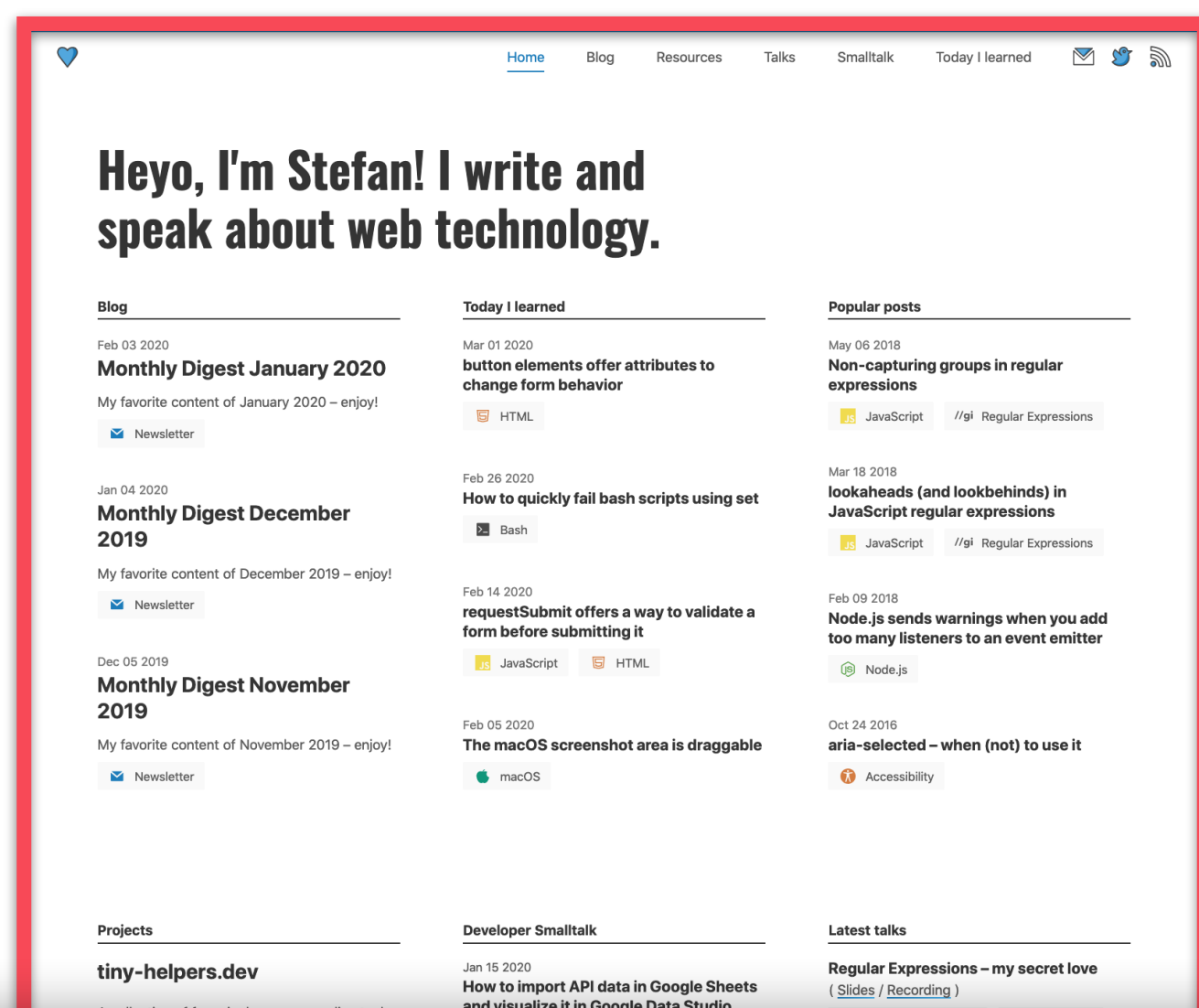
Multi-page App  
(MPA)

Single-page App  
(SPA)



# Your content in HTML

# The same content in JavaScript




Multi-page App  
(MPA)

Single-page App  
(SPA)



Stefan @ goto CPH   
@stefanjudis

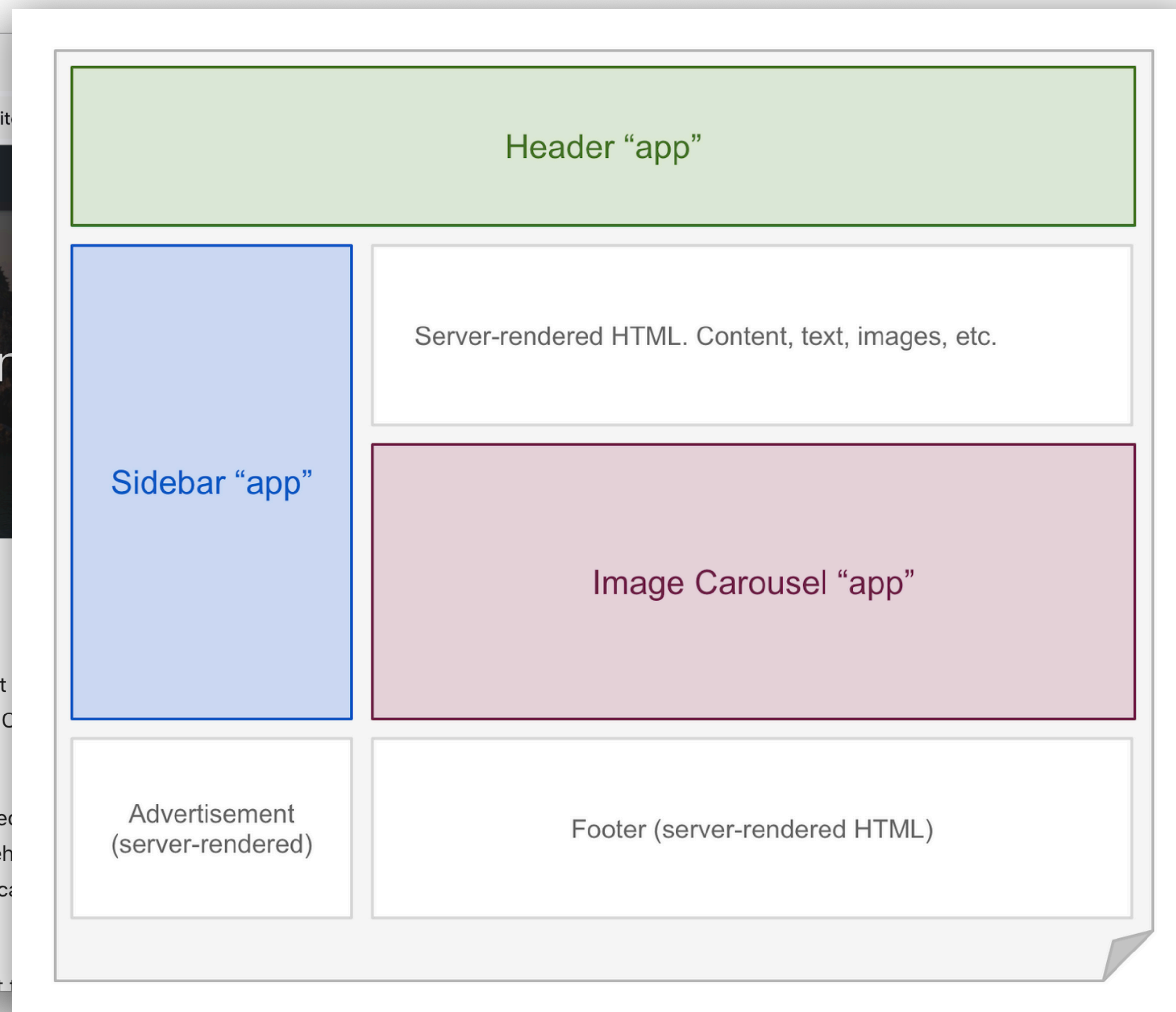
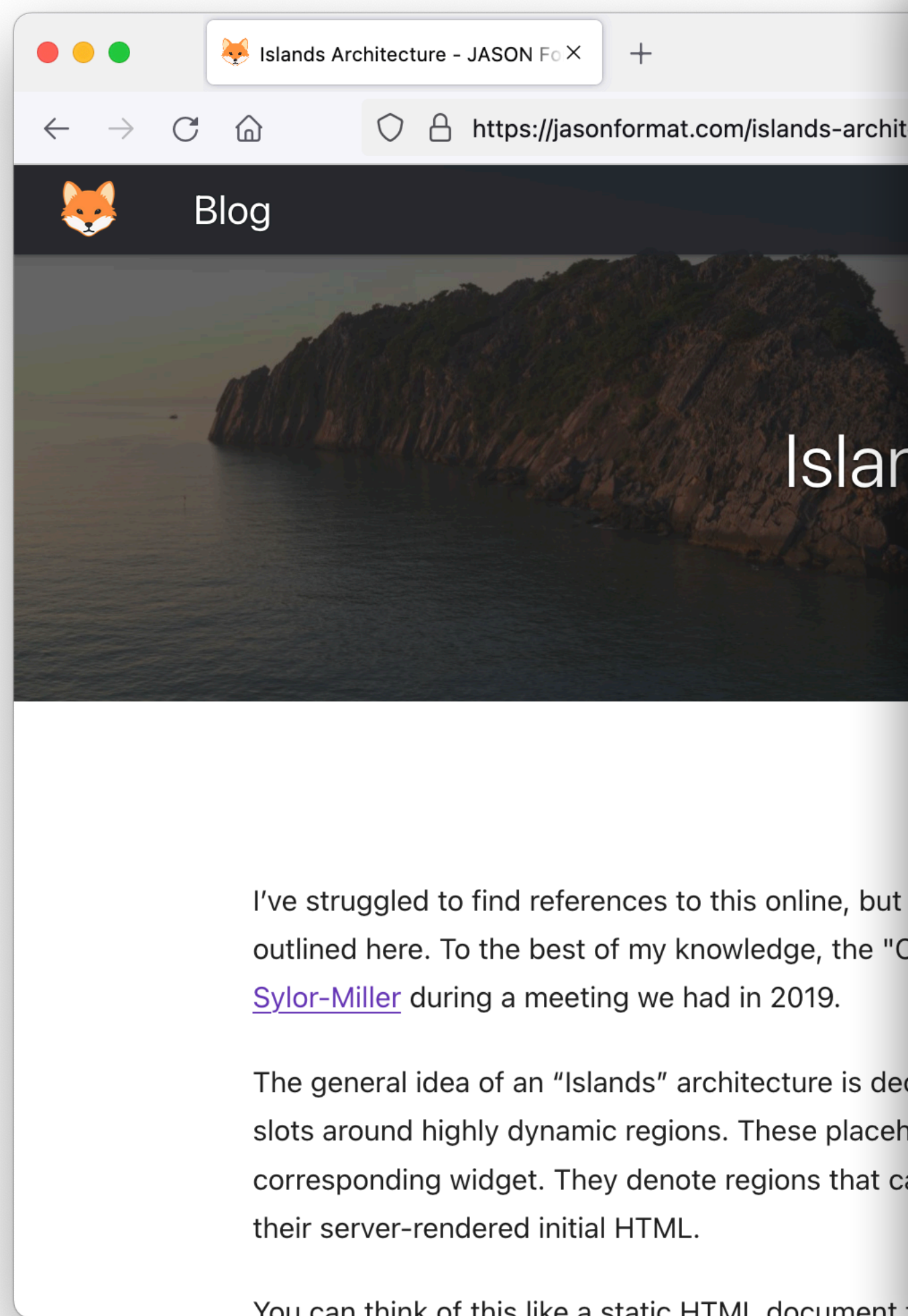


I'm still confused when I read the term "Multipage-apps" to describe... well... "normal" websites. 

3:07 PM · Sep 24, 2021 · Twitter Web App



# [jasonformat.com/islands-architecture/](https://jasonformat.com/islands-architecture/)



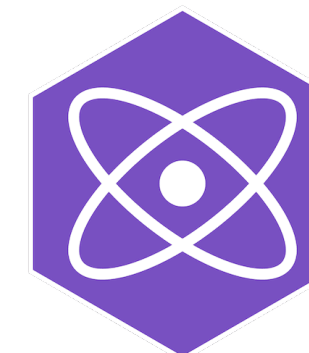
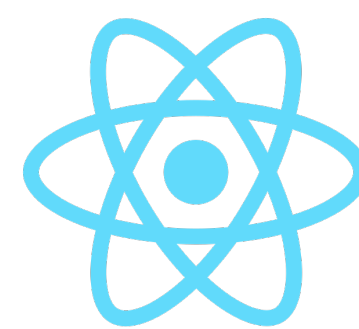


```
/* Opt in to load client-side JavaScript */  
<MyComponent client:load />  
<MyComponent client:idle />  
<MyComponent client:visible />  
<MyComponent client:media={QUERY} />
```





works with



Jason Lengstorf  
@jlengstorf



I just ported a Next.js site to [@astrodotbuild](#), used 90% of the same component code, and ended up with

28 requests → 5 requests  
resources: 255 kB → 10.7 kB  
load time: 321 ms → 214 ms

holy buckets y'all. not shipping unnecessary JS is 🥰🥰

Status	Type	Initiato	Status	Type	Initiato
200	document	Other	200	png	Other



reacts.org

vercel.com

The screenshot shows the React.js website with the article 'Introducing Zero-Bundle-Size React Server Components' by Dan Abramov, Lauren Tan, Joseph Savona, and Sebastian Markbåge. The article is dated December 21, 2020. The text mentions a 'Holiday Update' and a 'demo'.

Introducing Zero-Bundle-Size React Server Components

December 21, 2020 by [Dan Abramov](#), [Lauren Tan](#), [Joseph Savona](#), and [Sebastian Markbåge](#)

2020 has been a long year. As it comes to an end we wanted to share a special Holiday Update on our research into zero-bundle-size React Server Components.

To introduce React Server Components, we have prepared a talk and a demo. If you want, you can check them out during the holidays, or later when work picks back

The screenshot shows the Vercel website with the article 'Everything About React Server Components' by Tim Neutkens, Christina Kopecky, Joe Haddad, and Lee Robinson. The article is dated Friday, January 15th 2021. The text discusses building an application with great user experience, scalability, and fast performance.

Everything About React Server Components

Friday, January 15th 2021

[Tim Neutkens](#) [Christina Kopecky](#) [Joe Haddad](#) [Lee Robinson](#)

When it comes to building an application, the best developers accomplish three things: great user experience, scalability over time, and fast performance.

Projects often sacrifice one of these to achieve the other two. React Server Components, announced at the end of 2020, will help reduce trade offs by enabling more features while decreasing the amount of JavaScript to evaluate on the client. This will make for a more pleasant user and developer experience due to faster performance.





# #transitionalApps



Have Single-Page Apps Ruined the Web?



**A great site just works.<sup>TM</sup>**





The foundation of the web

**HTML CSS JavaScript**



**A great site doesn't have to be  
built with React/Vue/Angular/...**



I need a new site what should I use?

~~You should use Framework X with SSR, an edge strategy and it has to run "on the edge".~~

It depends...  
What's your use case?





**A great site can be built  
with React, Vue, Angular...**





**A great site is  
accessible, fast, secure, ...**



**It's "just" HTML...**



**HTML defines  
over 100 elements**



# **HTML defines 22 input types**





**Stefan Judis**  
@stefanjudis



Safari now supports `enterkeyhint`. 🙌

I always like it when the enter key gives me more context.



🔗 Spec: [html.spec.whatwg.org/multipage/inte...](https://html.spec.whatwg.org/multipage/interactions.html#the-enter-key)

#devsheets

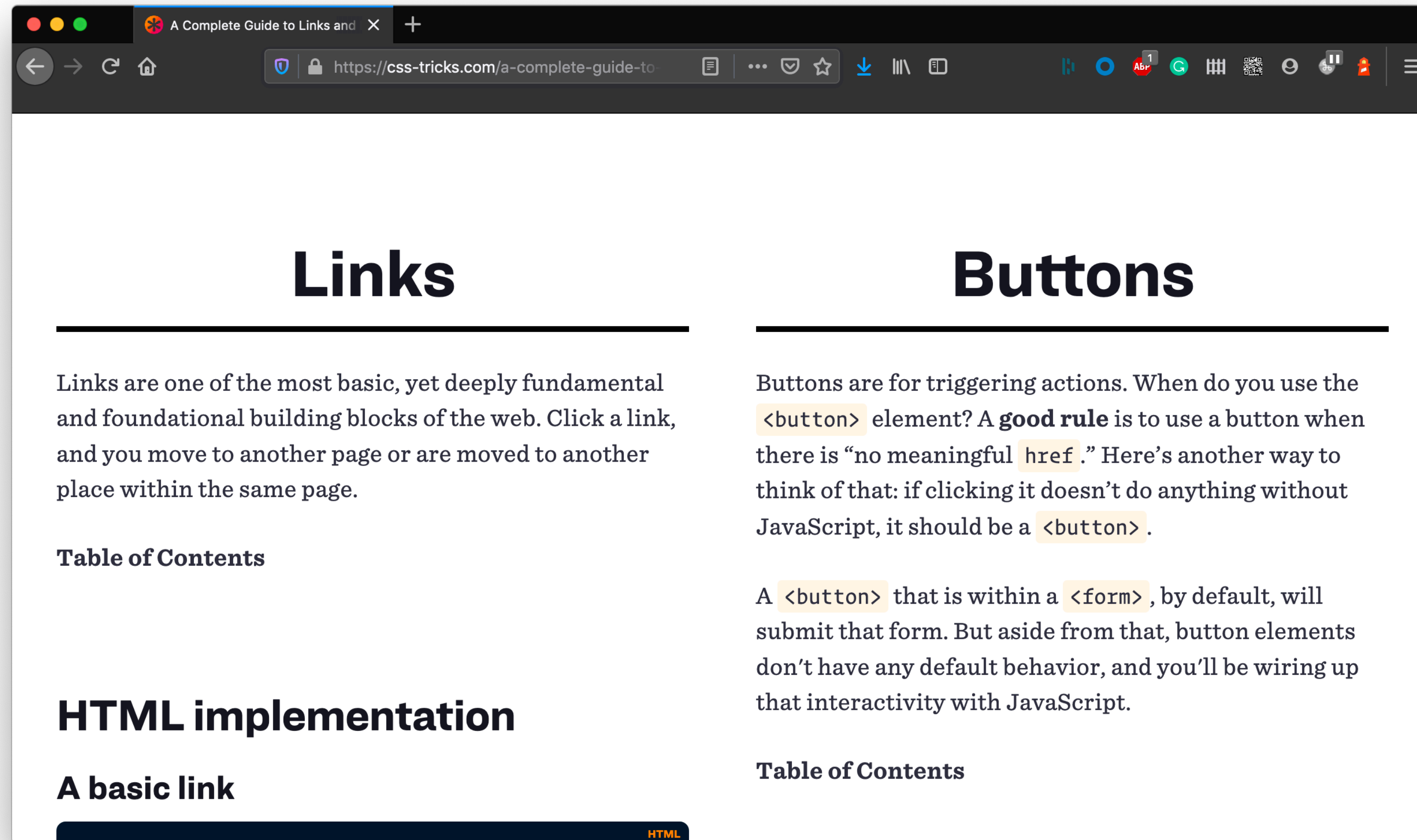
[Tweet übersetzen](#)

`<input enterkeyhint=" ... ">`

An input attribute that specifies what action label (or icon) to present for the enter key on virtual keyboards.



[css-tricks.com/a-complete-guide-to-links-and-buttons/](https://css-tricks.com/a-complete-guide-to-links-and-buttons/)

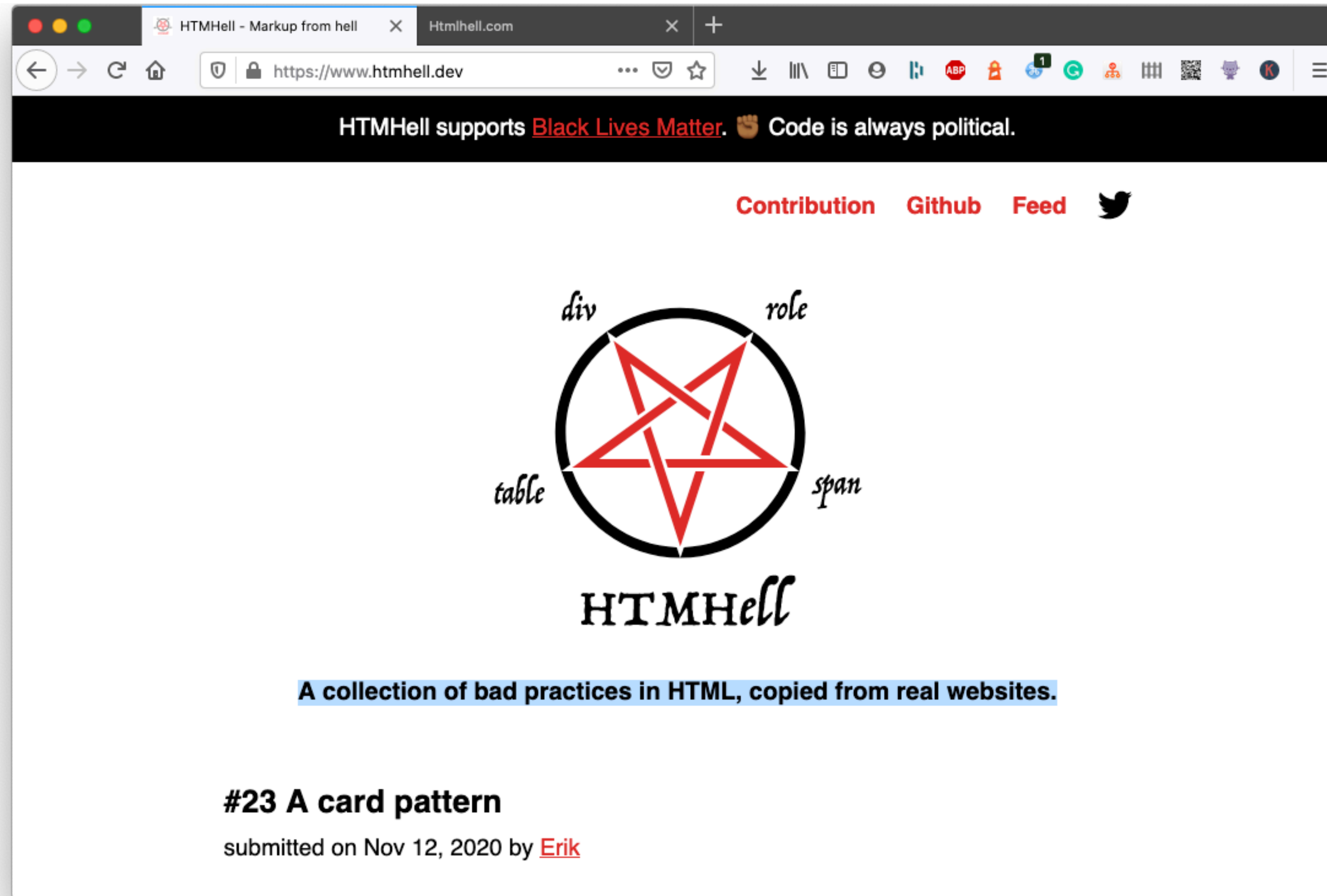


+4000 words!



```
<div aria-label="twitter" tabindex="0" role="button">  
  Twitter  
</div>
```

# www.htmhell.dev







**... it's not "easy".**



[webaim.org/projects/million/](https://webaim.org/projects/million/)

Most common types of WCAG 2 failures

<b>WCAG Failure Type</b>	<b>% of home pages in February 2021</b>	<b>% of home pages in February 2020</b>	<b>% of home pages in February 2019</b>
Low contrast text	86.4%	86.3%	85.3%
Missing alternative text for images	60.6%	66.0%	68.0%
Missing form input labels	54.4%	53.8%	52.8%
Empty links	51.3%	59.9%	58.1%
Missing document language	28.9%	28.0%	33.1%
Empty buttons	26.9%	28.7%	25.0%



[webaim.org/projects/million/](http://webaim.org/projects/million/)

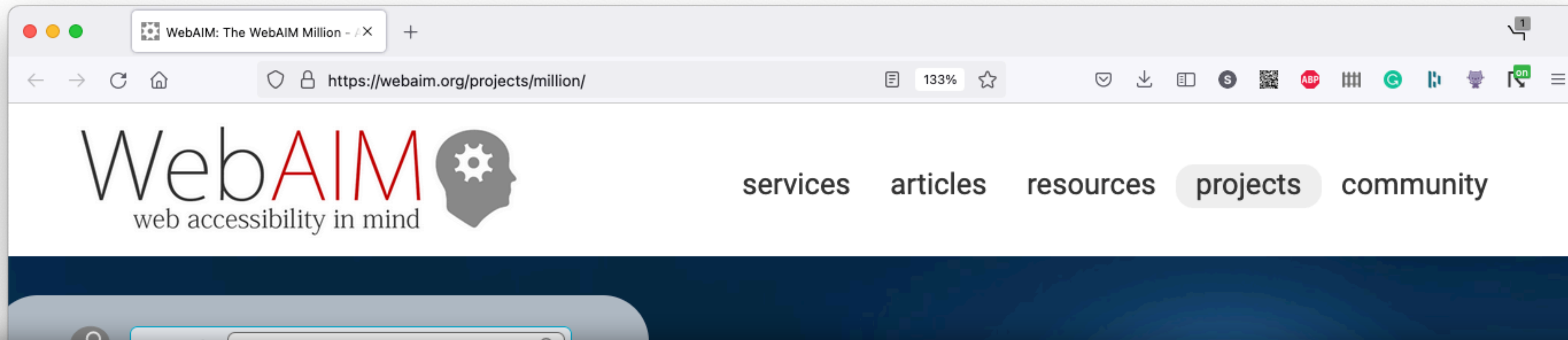
## JavaScript Frameworks

Framework	# (and %) of home pages	Avg. # of errors	% difference
React	26,773 (2.7%)	50.4	-1.9%
MooTools	8,270 (0.8%)	54.8	+6.7%
GSAP	6,612 (0.7%)	57.9	+12.7%
RequireJS	13,621 (1.4%)	60.7	+18.1%
Prototype	5,313 (0.5%)	62.6	+21.8%
Backbone.js	6,003 (0.6%)	63.9	+24.4%
Angular	5,775 (0.6%)	64.9	+26.4%
Vue.js	18,358 (1.8%)	67.3	+31.1%

src/App.js

Line 8:9: img elements must have an alt prop, either with meaningful text, or an empty string for decorative images [jsx-a11y/alt-text](#)

[webaim.org/projects/million/](https://webaim.org/projects/million/)



## WCAG Conformance

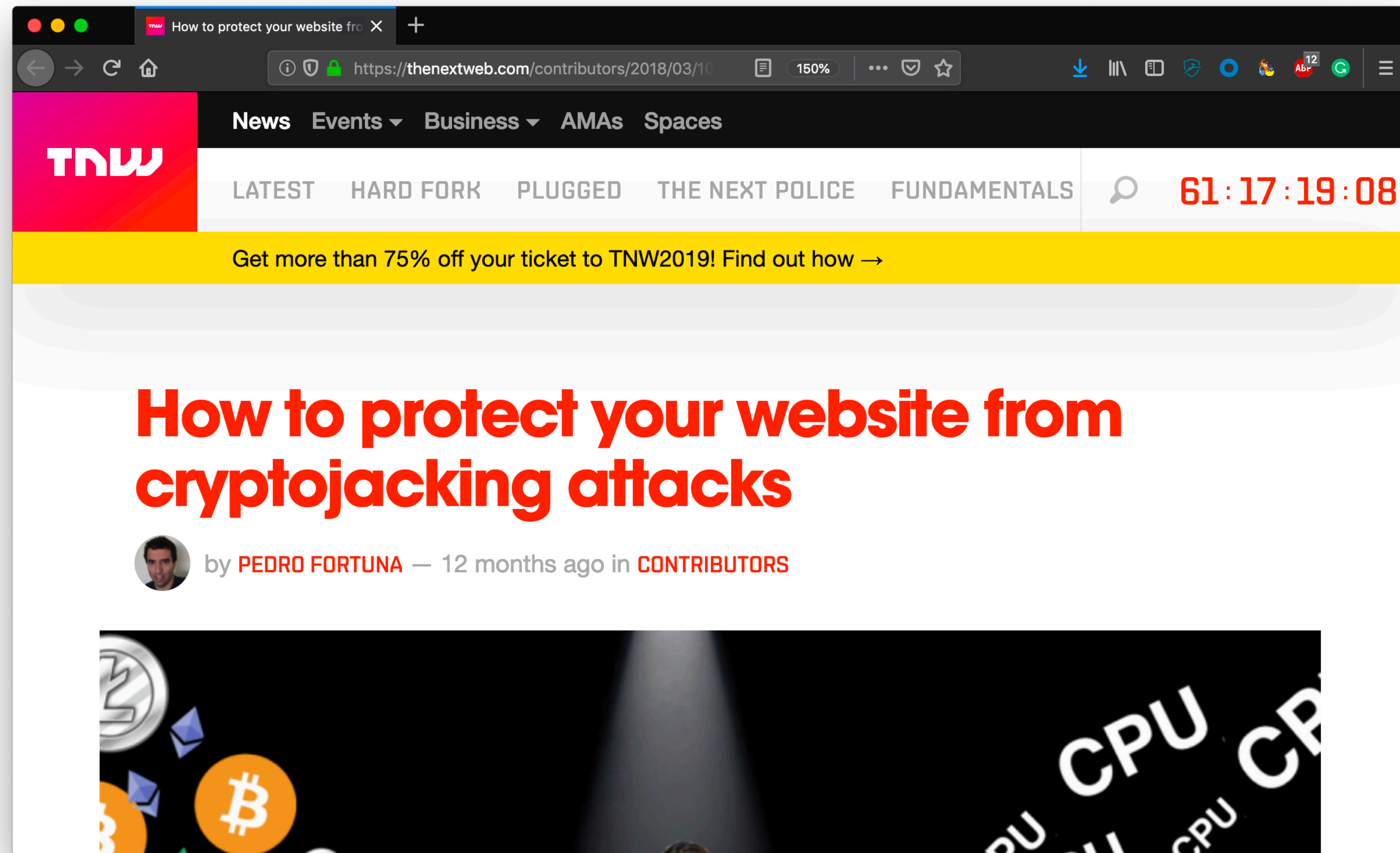
**97.4% of home pages had detected [WCAG 2](#) failures!** This was down slightly from 98.1% in February 2020. These are only automatically detected errors that align with WCAG conformance failures with a high level of reliability. Because automatic testing cannot detect all possible WCAG failure types, this means that the actual WCAG 2 A/AA conformance level was certainly much lower.

Article Contents

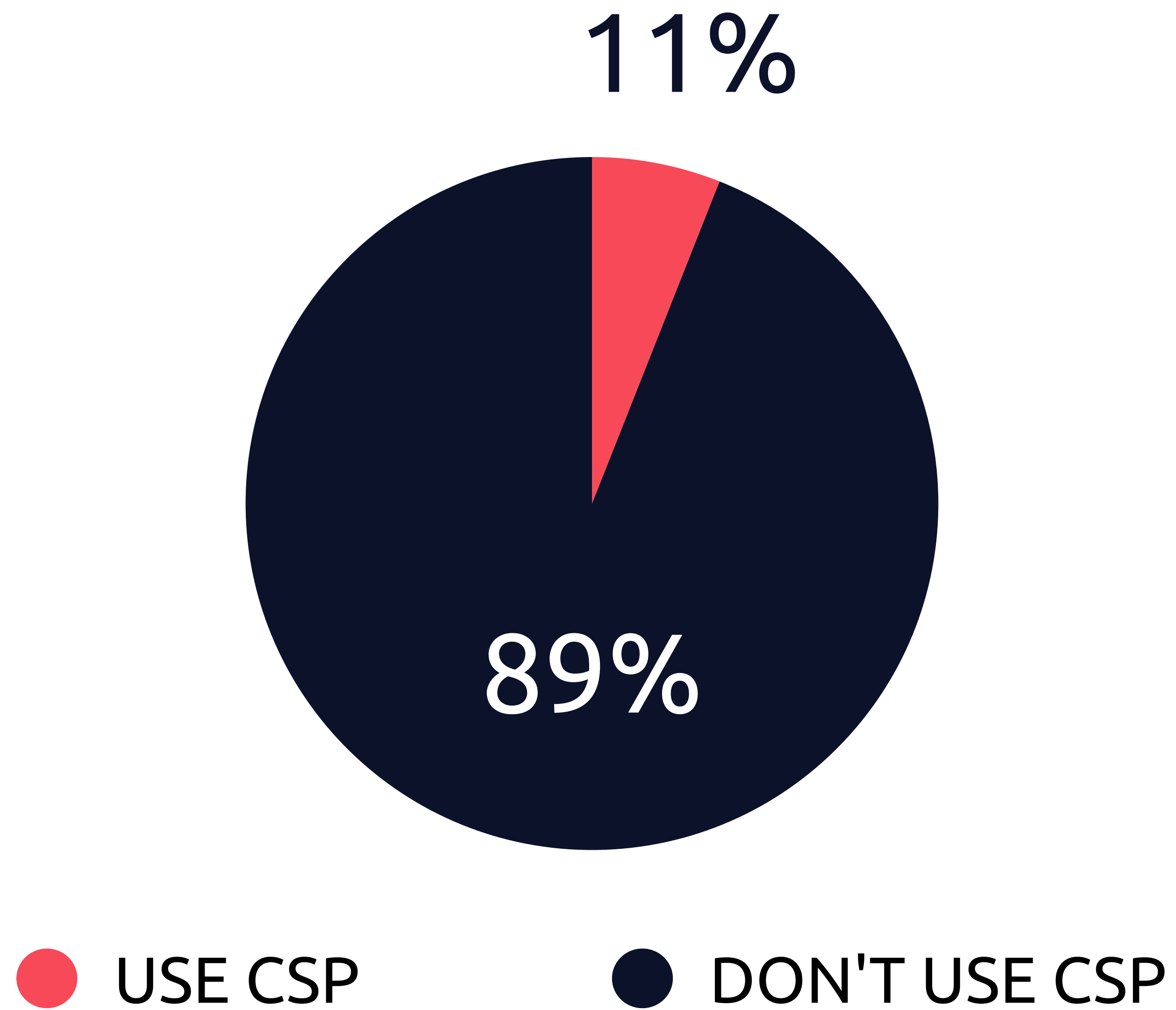
[Evaluation Tool](#)  
• [WAVE Stand-alone API](#)



[thenextweb.com/contributors/2018/03/10/protect-website-cryptojacking-attacks/](https://thenextweb.com/contributors/2018/03/10/protect-website-cryptojacking-attacks/)



**Content-Security-Policy:** default-src 'self'; script-src 'self' just-comments.com www.google-analytics.com production-assets.codepen.io storage.googleapis.com; style-src 'self' 'unsafe-inline'; img-src 'self' data: images.contentful.com images.ctfassets.net www.gravatar.com www.google-analytics.com just-comments.com; font-src 'self' data:; connect-src 'self' cdn.contentful.com images.contentful.com videos.contentful.com images.ctfassets.net videos.ctfassets.net service.just-comments.com www.google-analytics.com; media-src 'self' videos.contentful.com videos.ctfassets.net; object-src 'self'; frame-src codepen.io; frame-ancestors 'self'; worker-src 'self'; block-all-mixed-content; manifest-src 'self' 'self'; disown-opener; prefetch-src 'self'; report-uri https://stefanjudis.report-uri.com/r/d/csp/reportOnly





# <httparchive.org/reports/state-of-the-web>







# The web lost quality...



**... but at least Frontend  
developers got more productive!**









```
exports.sayHello = async (event) => {  
    return 'Hello from Lambda!';  
};
```



```
exports.sayHello = async (event) => {  
  return {  
    statusCode: 200,  
    body: JSON.stringify({ "msg": "Hello from Lambda!" })  
  };  
};
```



The options are limitless to build a product quickly!



2010

2020

**Hello world!**

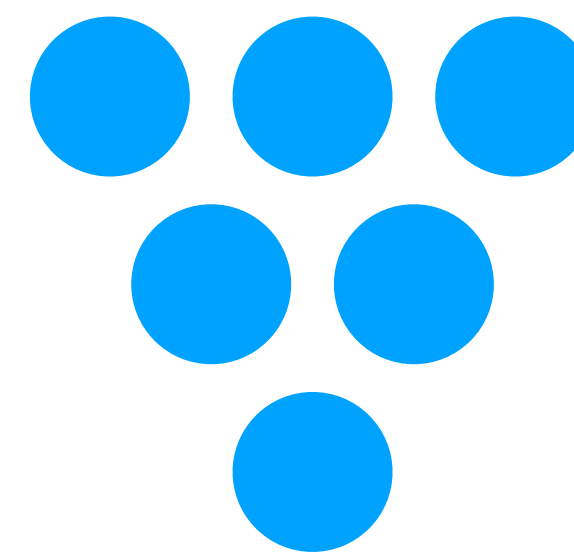
**Hello world!**

**10KB / 50KB**

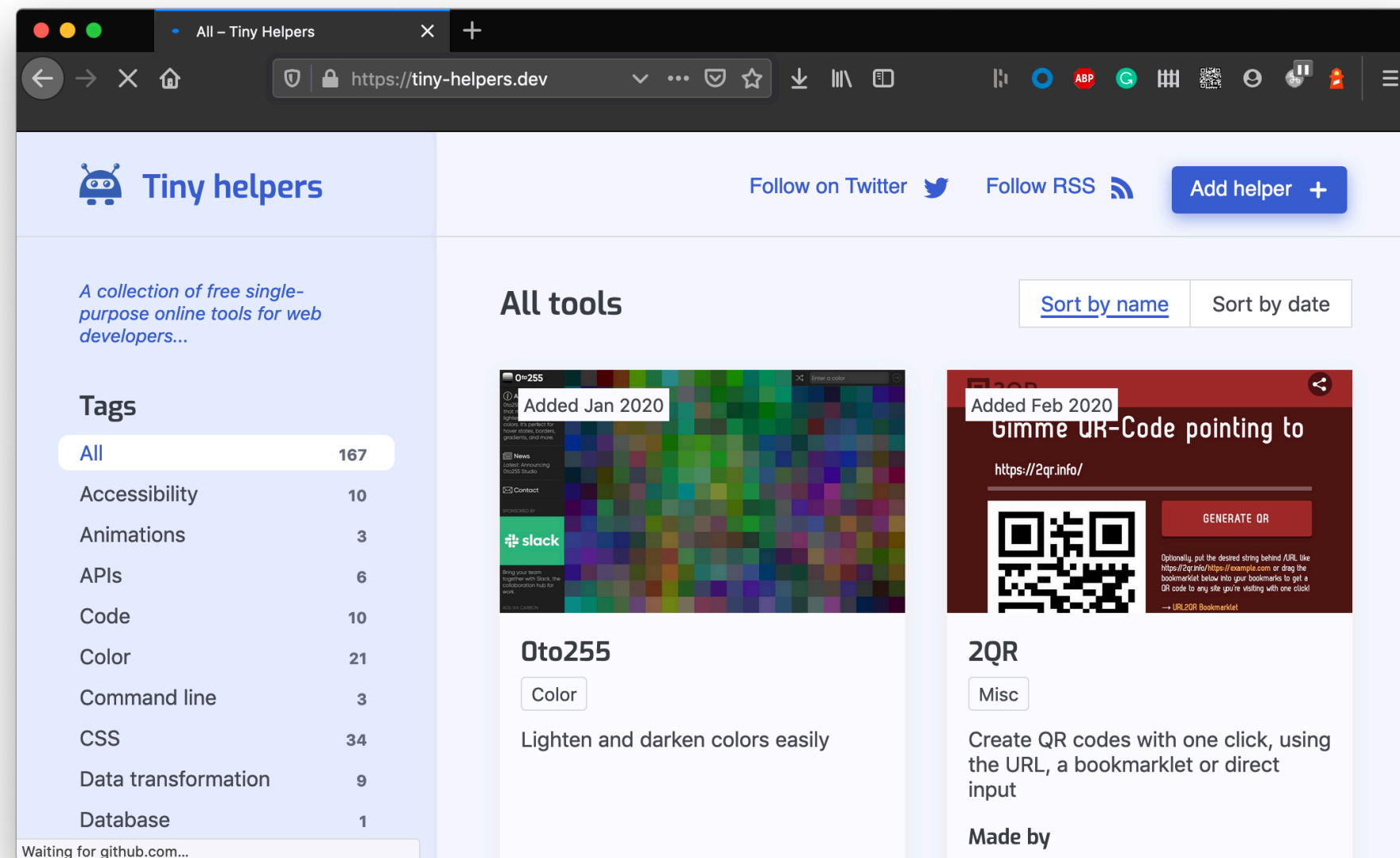
**40KB / 130KB**



Complexity





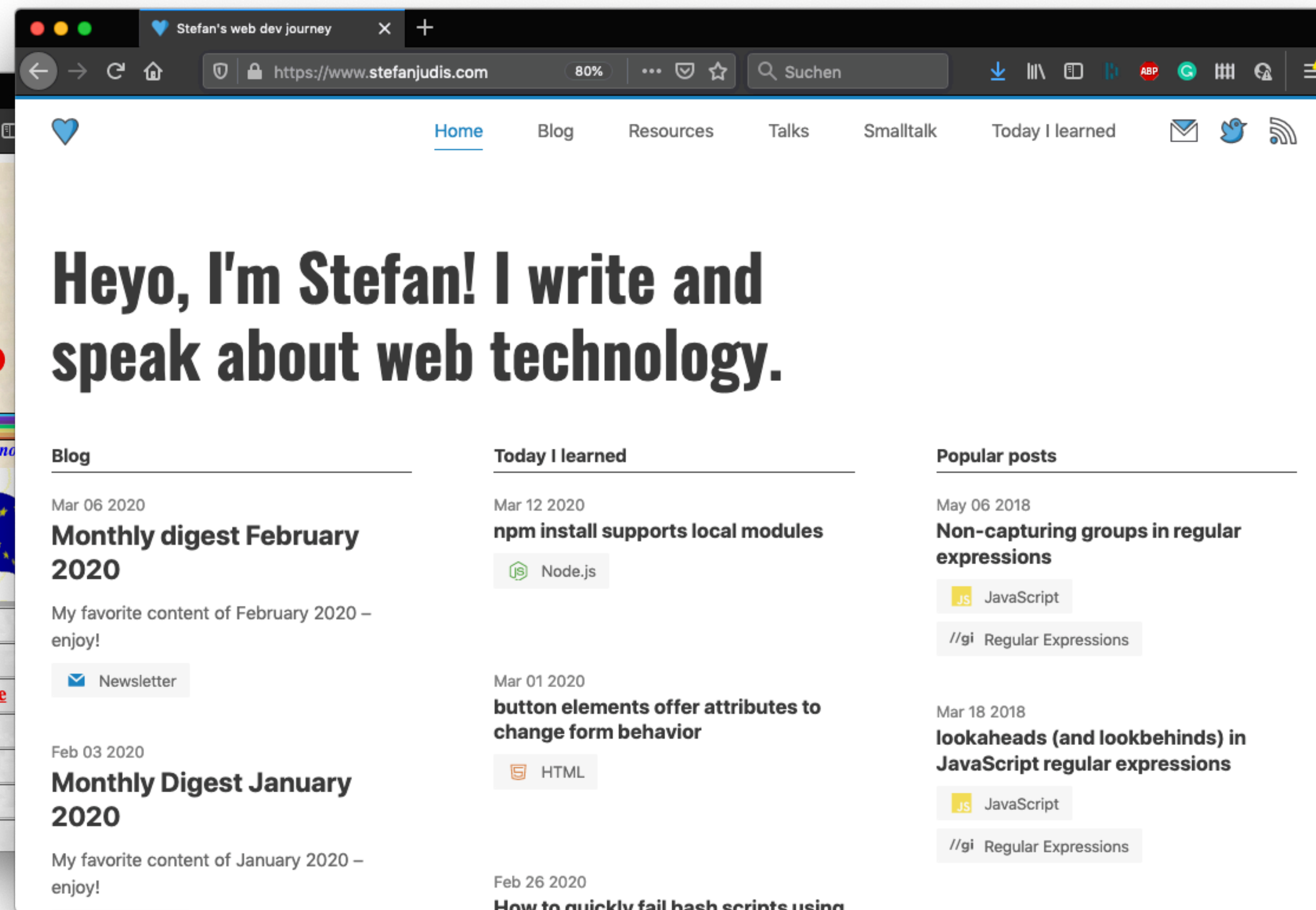


I just added two helpers to tiny-helpers.dev. The site is great, but that I had to download 700MB of Node.js stuff is brutal. :)





A text editor



A text editor, Node.js, npm, framework knowledge, ...



100% agree!

How many sites need to be complex apps, though?

**I've been building on the web for 15+ years in some capacity, and it has never been so easy to build complex apps.**

A red curved arrow originates from the top right and points towards the underlined text "so easy to build complex apps.".

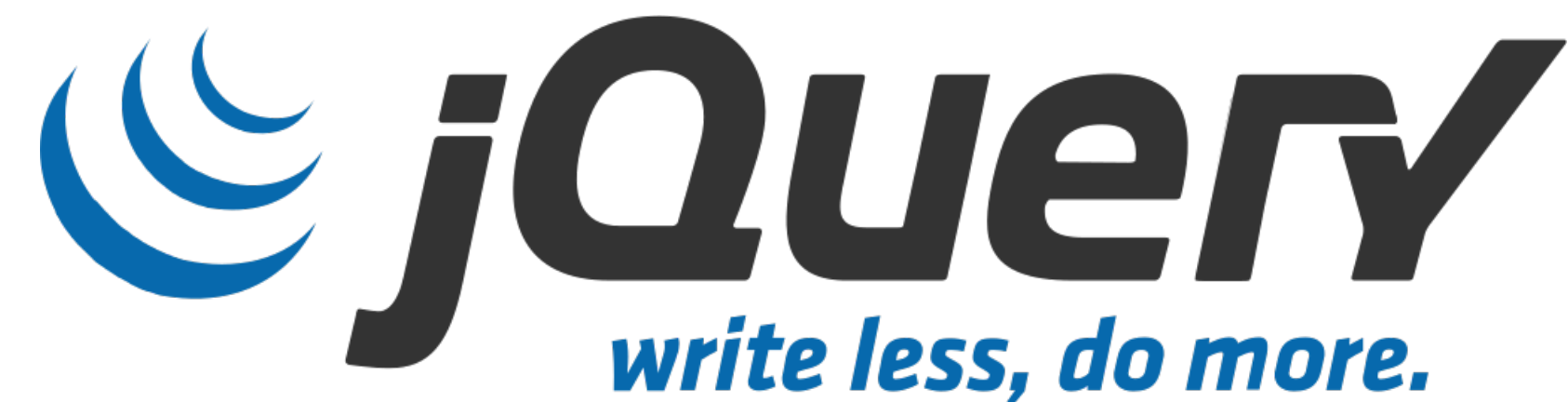
Josh Comeau





**Where are we going  
with this trend?**







**HTML CSS JavaScript\***  
**React Vue Angular Svelte**  
**webpack Rollup Parcel**  
**AWS GCloud Netlify Vercel Heroku**

*\* a very incomplete list*



**Complexity rocks!**  
**(but what for?)**



**Stefan Judis**  
@stefanjudis



I really like new and cutting-edge technology, but lately, I feel more and more that we're just over-engineering everything... 🙄

I spent the last hour solving problems that I wouldn't have had with a "traditional stack", static HTML and some hand-written JavaScript.

[Tweet übersetzen](#)

8:33 nachm. · 5. Jan. 2020 · [Twitter Web App](#)

---

||| [Tweet-Aktivität anzeigen](#)

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**21** Retweets   **180** „Gefällt mir“-Angaben

---



[twitter.com/\\_developit/status/1214258470226190350](https://twitter.com/_developit/status/1214258470226190350)



**Stefan Judis** @stefanjudis · 6. Jan.

Yeah depends on the case oc. :D But I just built a universal preact app with hooks, rollup, htm and a tiny router for... yeah I don't know what the reason for that was... 🙄

Static HTML and a little JS in the head would have done the job. :D



2



3



**Jason Miller** 🦊🧬

@\_developit

Antwort an [@stefanjudis](#) und [@kmelve](#)

Ideally this shouldn't be a decision you have to make. It should be a compile target or series of automated optimizations.

[Tweet übersetzen](#)

7:52 nachm. · 6. Jan. 2020 · [Twitter Web App](#)

3 „Gefällt mir“-Angaben





[justmarkup.com/articles/2019-12-04-hamburger-menu/](https://justmarkup.com/articles/2019-12-04-hamburger-menu/)

```
(function() {  
  const fakeButton = document.querySelector('[data-menu-button]');  
  const menu = document.querySelector('[data-menu]');  
  
  const toggleMenuButton = document.createElement('button');  
  toggleMenuButton.textContent = fakeButton.textContent;  
  toggleMenuButton.setAttribute('aria-expanded', false);  
  toggleMenuButton.setAttribute('aria-controls', 'menu');  
  toggleMenuButton.classList.add('nav__toggle');  
  
  fakeButton.parentNode.replaceChild(toggleMenuButton, fakeButton);  
  
  toggleMenuButton.addEventListener('click', function() {  
    let expanded = this.getAttribute('aria-expanded') === 'true' || false;  
    this.setAttribute('aria-expanded', !expanded);  
    menu.hidden = !menu.hidden;  
  });  
  
  menu.hidden = true;  
})();
```

16 lines of hand-written JavaScript



**Maybe we'll have good  
enough abstractions one  
day, but today...**



**... you still have to know  
web fundamentals to create  
the best user experience.**



**You're shaping tomorrow's job  
market based on the technology  
choices you make today.**

Henrik Joreteg



**Your job as a web developer  
is to build beautiful  
experiences!**





~~Your job as a web developer is to build beautiful experiences!~~

Your job as a developer is to decide, to decide what tools to use, to decide what frameworks to use, to decide what to prioritize, to decide what is the best way to maintain a project.

Michael Scharnagl



**Chatted with someone who's been working at a company as a front-end developer for 3 years. Their friend asked them to help build a website, but they had to decline.**

**They didn't know how.**

Chris Coyier  
([css-tricks.com](https://css-tricks.com))

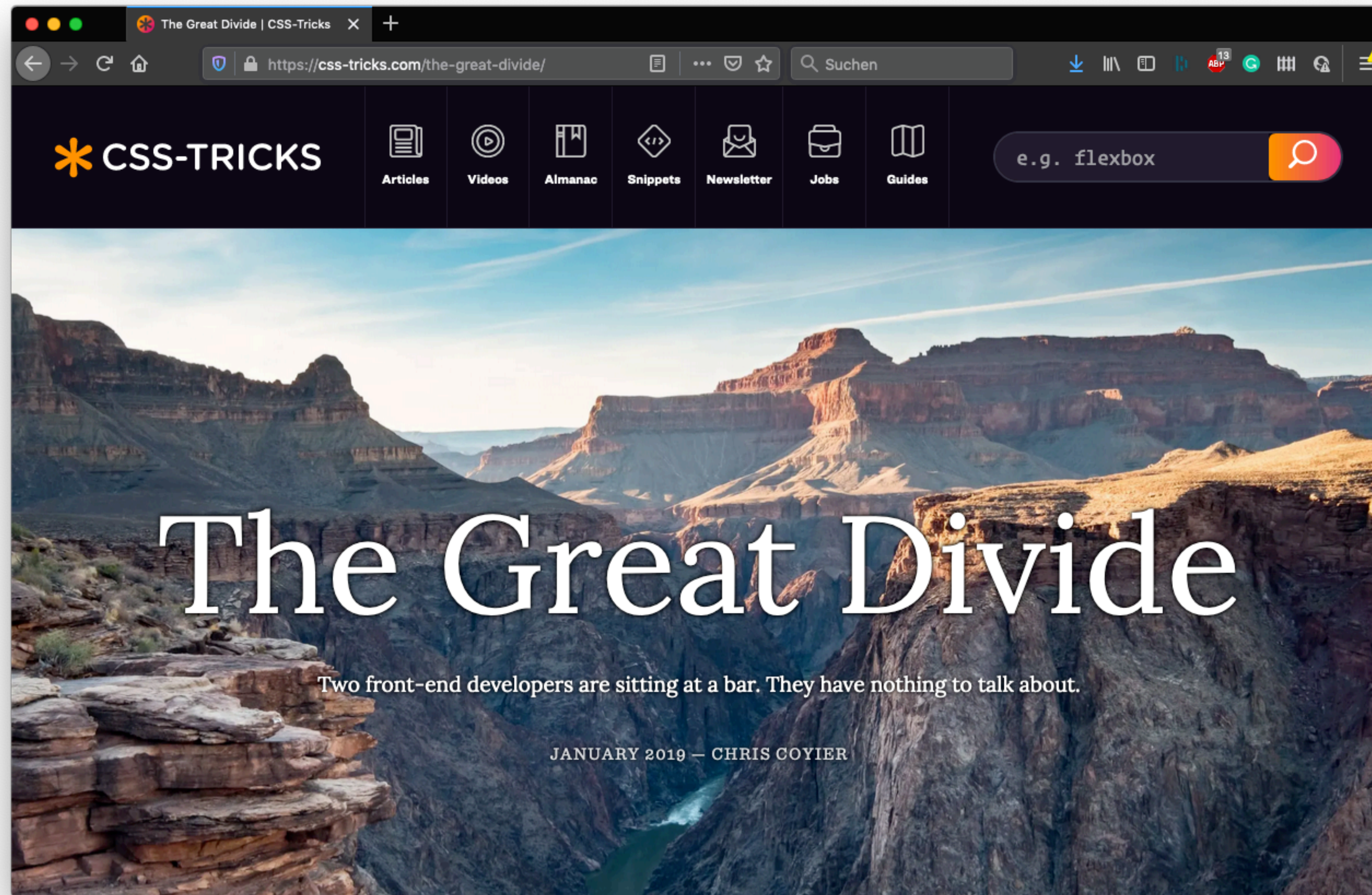


**HTML CSS JavaScript\***  
**React Vue Angular Svelte**  
**webpack Rollup Parcel**  
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*\* a very incomplete list*



[css-tricks.com/the-great-divide/](https://css-tricks.com/the-great-divide/)







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## Now Hiring: Front-End Developer

React / Next.js  
Apollo GraphQL  
styled-components  
webpack  
JS architecture and perf focused



Interaction Design & SVG  
CSS/Sass Architecture  
WordPress Themes  
Light jQuery  
UX and A11Y focused







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WordPress Themes  
Light jQuery

UX and A11Y focused





**It's time for our industry to realize the title "frontend developer" is obsolete.**

Benjamin De Cock – @bdc



**Developers and software engineers put their job satisfaction above their users or customers.**



**Your users don't care  
about your technical  
implementation.**





**DX**  
**(developer experience)**

**UX**  
**(user experience)**



**DX**  
(developer experience)

**UX**  
(user experience)



**I love shiny tools and I  
love writing JavaScript...**



**... but maybe we should take a step back?**

**And consider the right tools  
for the best user experience?**



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# Heyo, I'm Stefan! I write and speak about web technology.

## Blog

Jul 05 2020

### Monthly Digest May/June 2020

My favorite content of May/June 2020 – enjoy!

Newsletter

May 05 2020

### Monthly Digest April 2020

My favorite content of April 2020 – enjoy!

Newsletter

Apr 04 2020

### Monthly Digest March 2020

My favorite content of March 2020 – enjoy!

Newsletter

## Today I learned

Jul 21 2020

### GraphQL Playground offers a protocol handler

Jul 20 2020

### The ex unit in CSS

Jul 19 2020

### :defined can be used to target not yet defined custom elements

Jul 13 2020

### npm init uses npx under the hood

## Popular posts

May 06 2018

### Non-capturing groups in regular expressions

JavaScript Regular Expressions

Jul 07 2020

### git commit accepts several message flags (-m) to allow multiline commits

## Projects

tiny-helpers.dev

A collection of free single-purpose online tools for web developers

Tools

CSS Scroll shadows

2017 – 2020

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# Heyo, I'm Stefan. I write, speak and stream about web technology.

## Blog posts

Sep 29 2020

### How to unregister all installed service workers in Chrome

snippet PWA

A Chrome-trick to uninstall all registered service workers.

Sep 27 2020

### An approach to write better image alt text

note Accessibility

[Dave Ruppert](#) shared an interesting approach to good alternative text for images.

Sep 24 2020

### How to create a diff of npm package releases on the command line

snippet NodeJS

A quick guide on how to use `npm-diff` to see the differences of two npm package releases.

## Latest screencast

[How to set up your GitHub profile page with Contentful data and GitHub actions](#)

## Latest talk

[Did we\(b development\) lose the right direction?](#)

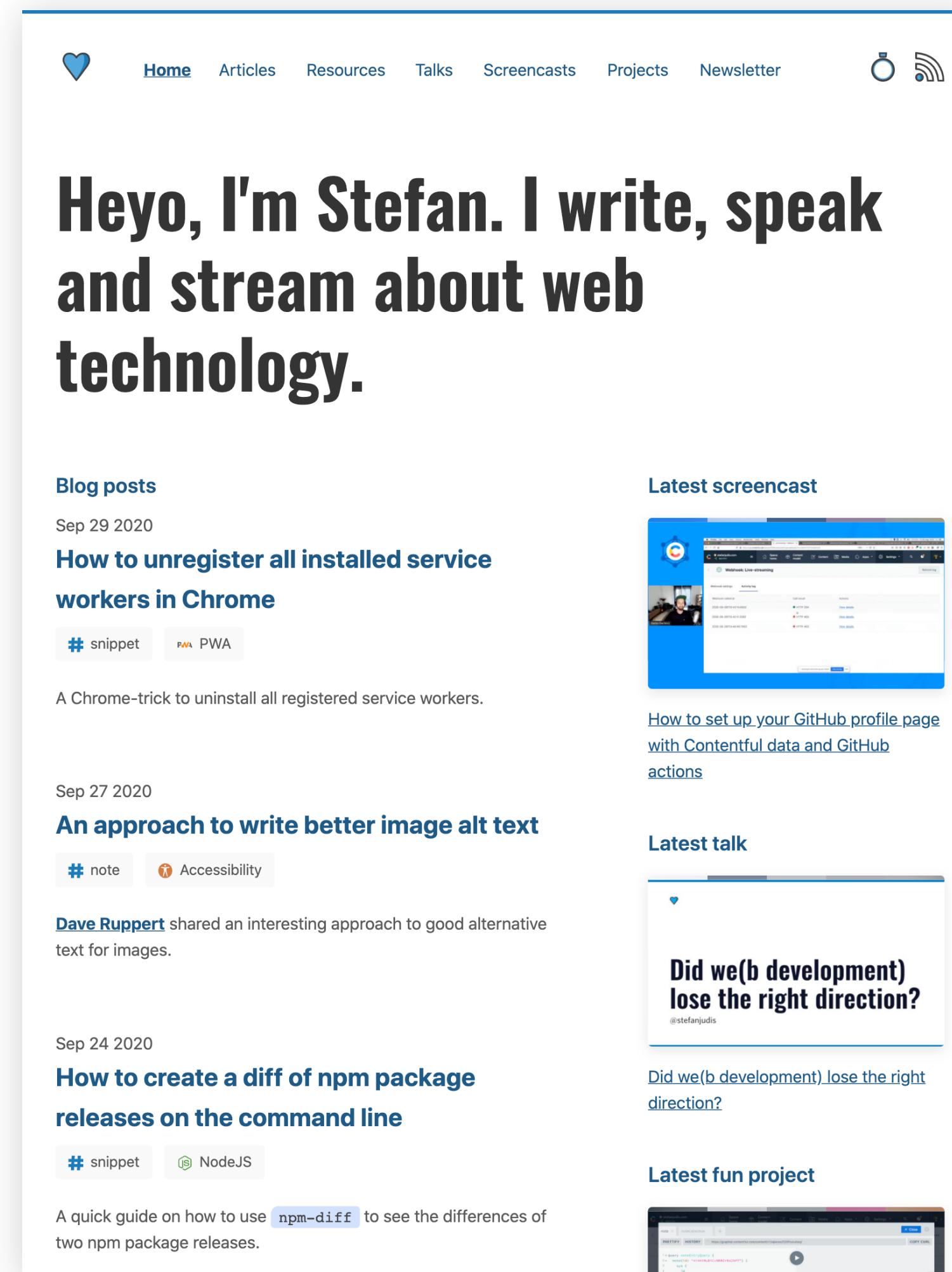
## Latest fun project

2020+





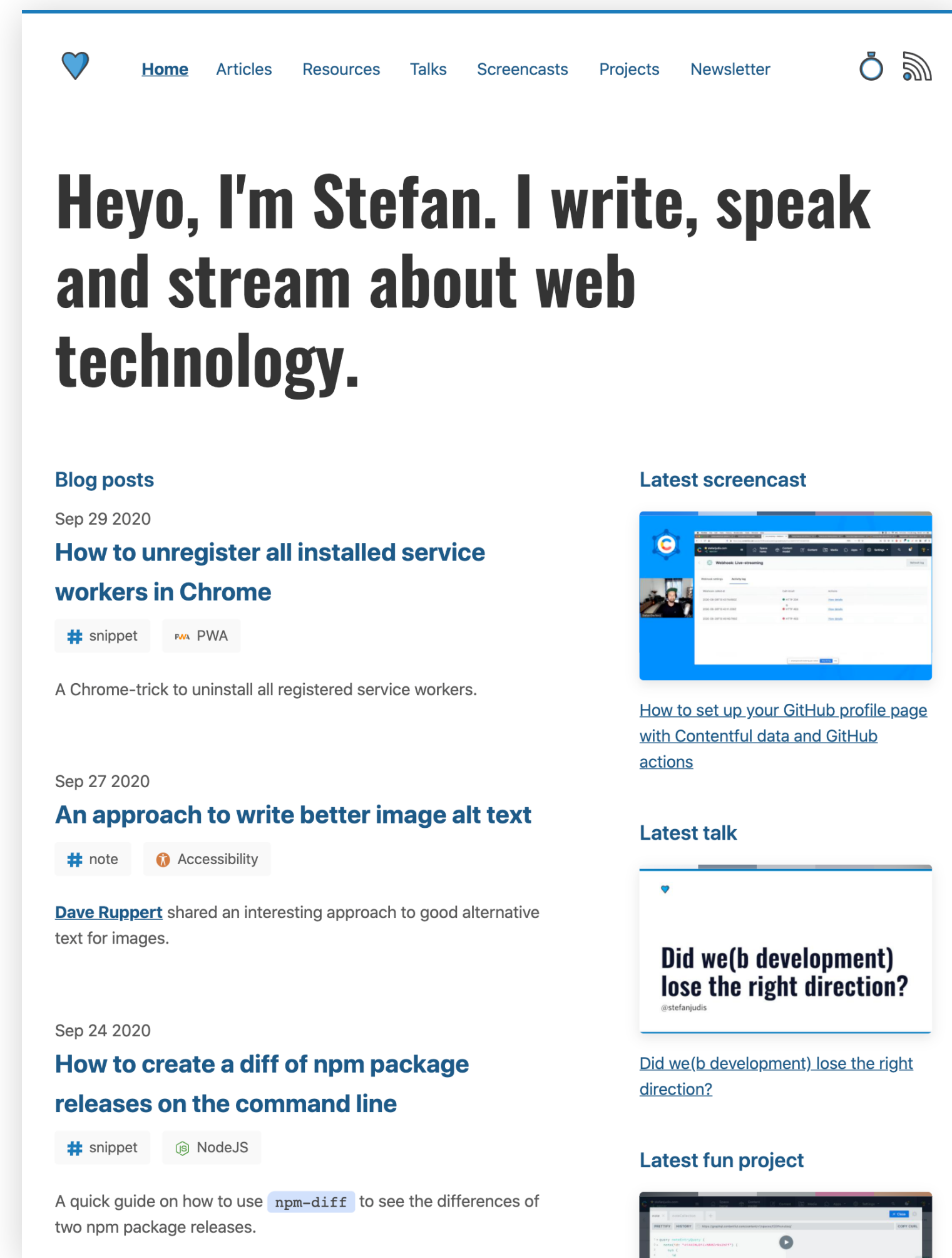
Reduction of overall  
page weight by **64%**.



2020+



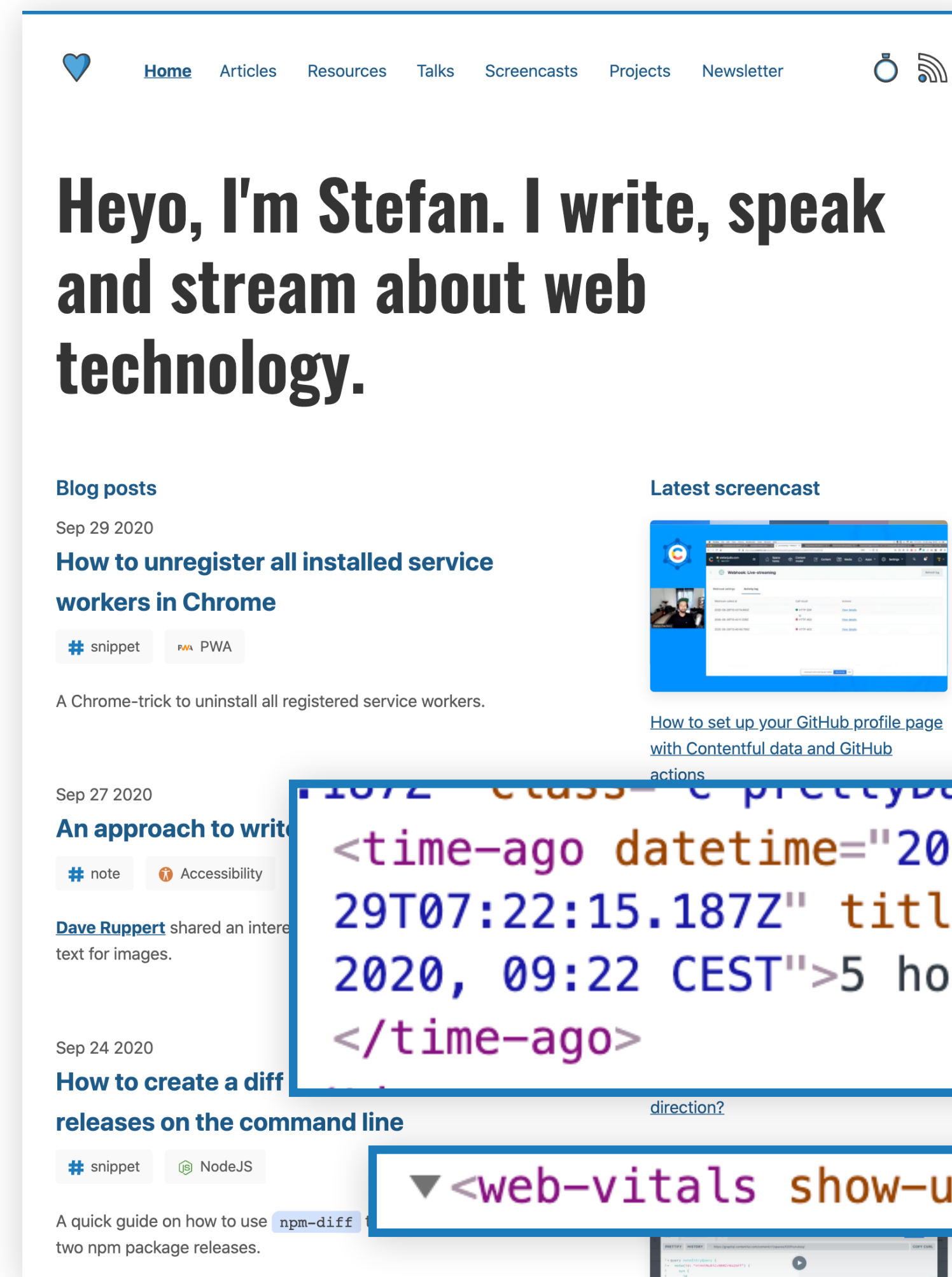
Reduction of build time  
from **4min** to **40s**.



**2020+**



No JavaScript build pipeline leading to **reduced complexity**.



2020+



No JavaScript  
pipeline  
to reduce



**Alex Russell**  
@slightlylate

Need to get those "anti-JavaScript JavaScript Club" stickers made.

[Tweet übersetzen](#)



**Taudry Hepburn** ❤️ @tabatkins · 24. Feb.

HTTP 262 JAVASCRIPT UNNECESSARILY REQUIRED; the content is available but you'd better have a good CPU and 15 seconds of free time before the first pixel gets painted

4:36 vorm. · 25. Feb. 2020 · [Twitter Web App](#)

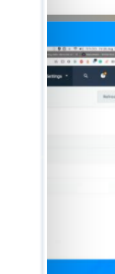
**3** Retweets **44** „Gefällt mir“-Angaben



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Heyo, I'm Stefan. I write, speak and stream about web



le\_page

ydate




2020-09-  
title="29 Sep  
hours ago

/-unsupported>





A green  
lighthouse score.

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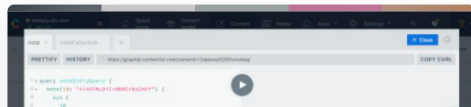
Sep 24 2020

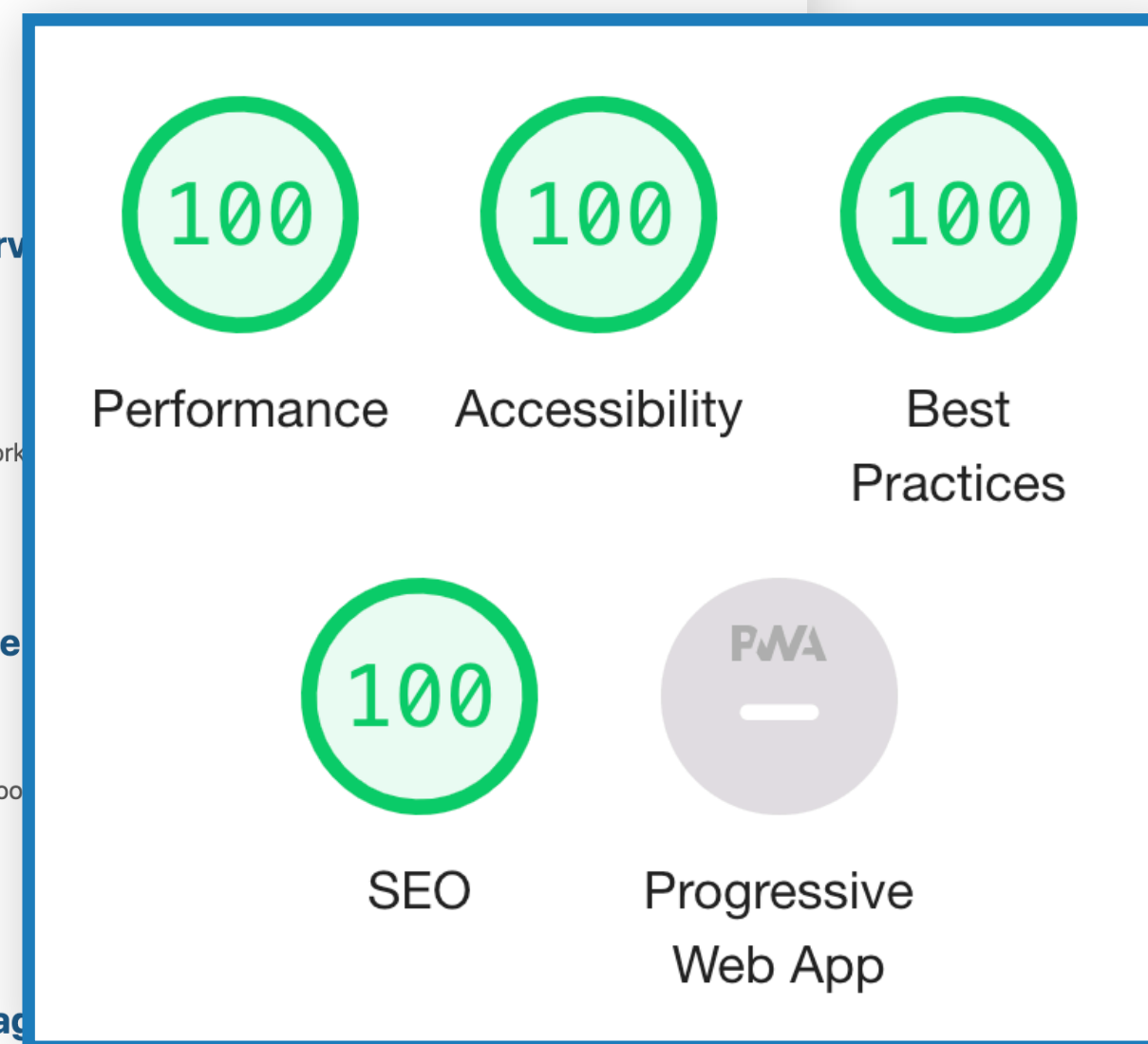
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Latest fun project



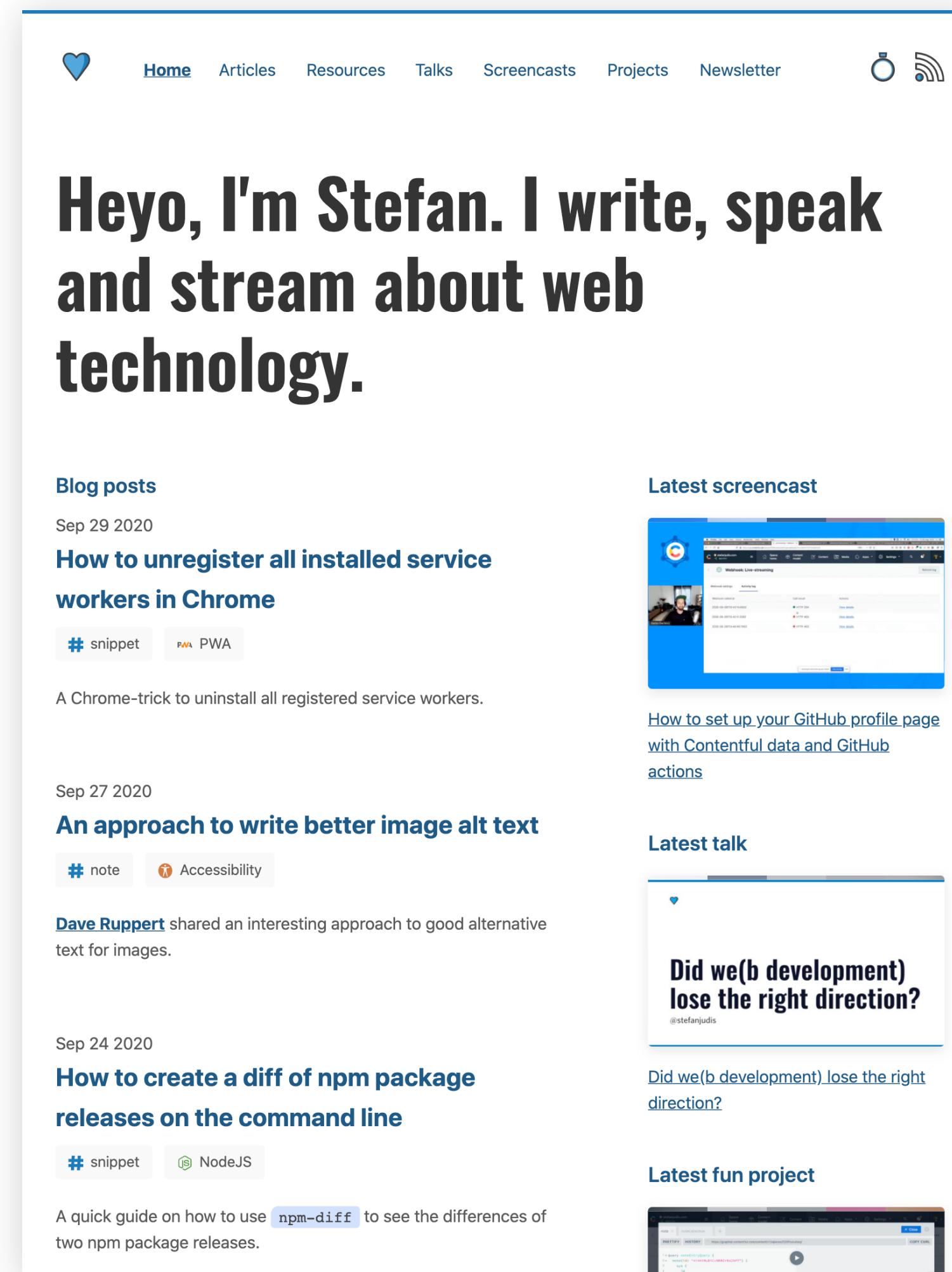


2020+





A site with a **better**  
**user experience.**



2020+



**Is a JavaScript-driven  
stack really that bad?**



**Not at all,  
use whatever makes you happy!**



**Every technology  
decision has tradeoffs.**

Kevlin Henney



**But maybe we should focus more  
on building sites that just work...**

**(And worry less about the technology powering them)**





# Slides

[my-links.online](#)/did-we-lose-direction

Yes! I own that domain! 🙈



# Thanks.

@stefanjudis

[www.stefanjudis.com](http://www.stefanjudis.com)

[newsletter.stefanjudis.com](http://newsletter.stefanjudis.com)

