

JAMSTACK AND NETLIFY

WORKSHOP

PHIL HAWKSWORTH





HELLO

@PHILHAWKSWORTH



netlify



Build, deploy, and manage modern web projects

Get an all-in-one workflow that combines global deployment, continuous integration, and HTTPS. And that's just the beginning.

Get started for free

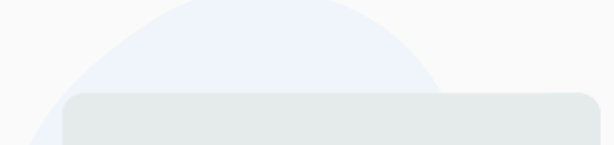
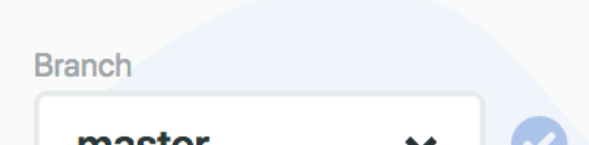


Deploy your site in seconds*

1 Connect your repository

2 Add your build settings

3 Deploy your website



STATIC / PRE-RENDERED / JAMSTACK

THE PLAN

SAY HELLO ✓
WHAT DOES STATIC MEAN?
THE NETLIFY APPROACH
A BIT OF A TOUR
A RIDICULOUS EXAMPLE
AN INTERESTING EXAMPLE
QUESTIONS

THE PLAN

SAY HELLO ✓

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jamstack

JAVASCRIPT / API / MARKUP

STACKS FOR DAYZ

AN / LAMP / MAMP / XAMP / ROR / WISA / MEAN

WISA / MEAN / LAMP / MAMP / XAMP / ROR /

shhhhh!

**I SOMETIMES BUILT LAMP STACK
SITES ON A MAC, AND I DIDN'T
ALWAYS USE MYSQL**

STATIC

STATIC



STATIC

STATIC

/ˈstætɪk/

*lacking in movement,
action, or change,
especially in an undesirable
or uninteresting way.*

STATIC

/ˈstætɪk/

*lacking in movement,
action, or change,
especially in an undesirable
or uninteresting way.*

STATIC

ARCHITECTURE?

or

RESULT?

STATIC

ARCHITECTURE?

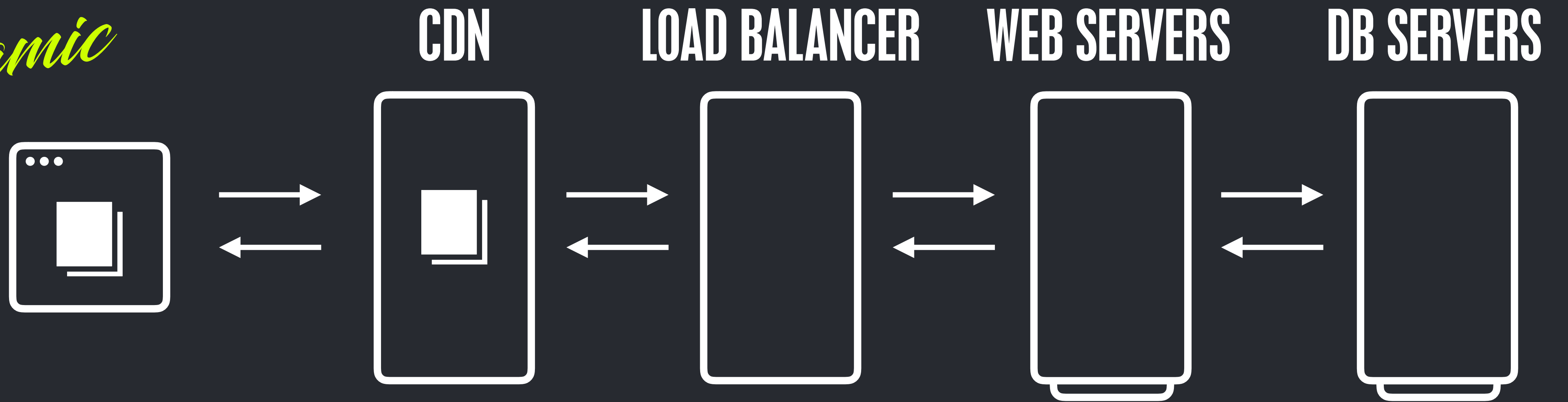
or

EXPERIENCE?

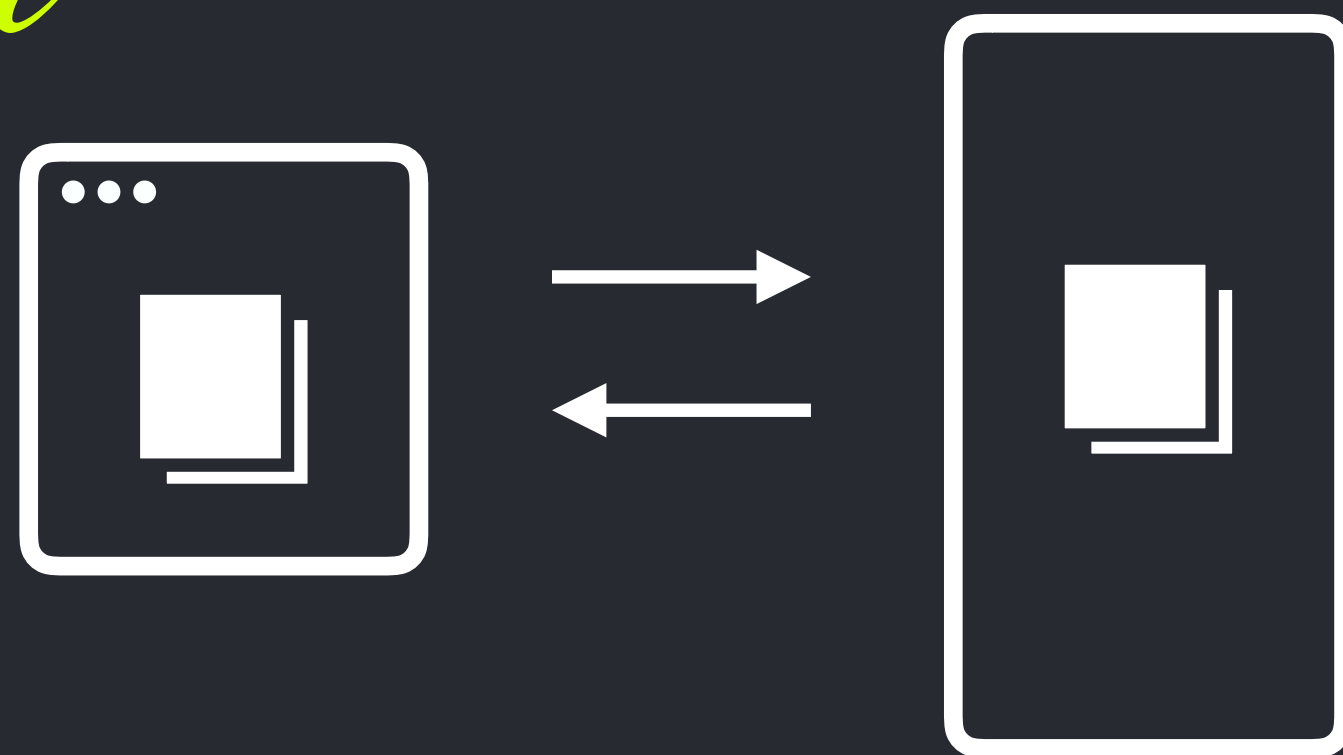
STATIC
as a
VIRTUE

STATIC / DYNAMIC

dynamic



static



STATIC
means

**CAPABLE OF BEING SERVED
DIRECTLY FROM A CDN**

STATIC
means

**NO WORK TO BE DONE
AT REQUEST TIME**

STATIC
means

**A FAR SMALLER ATTACK SURFACE
TO SECURE AND PROTECT**

THE PLAN

SAY HELLO ✓

WHAT DOES STATIC MEAN?

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A BIT OF A TOUR

A RIDICULOUS EXAMPLE

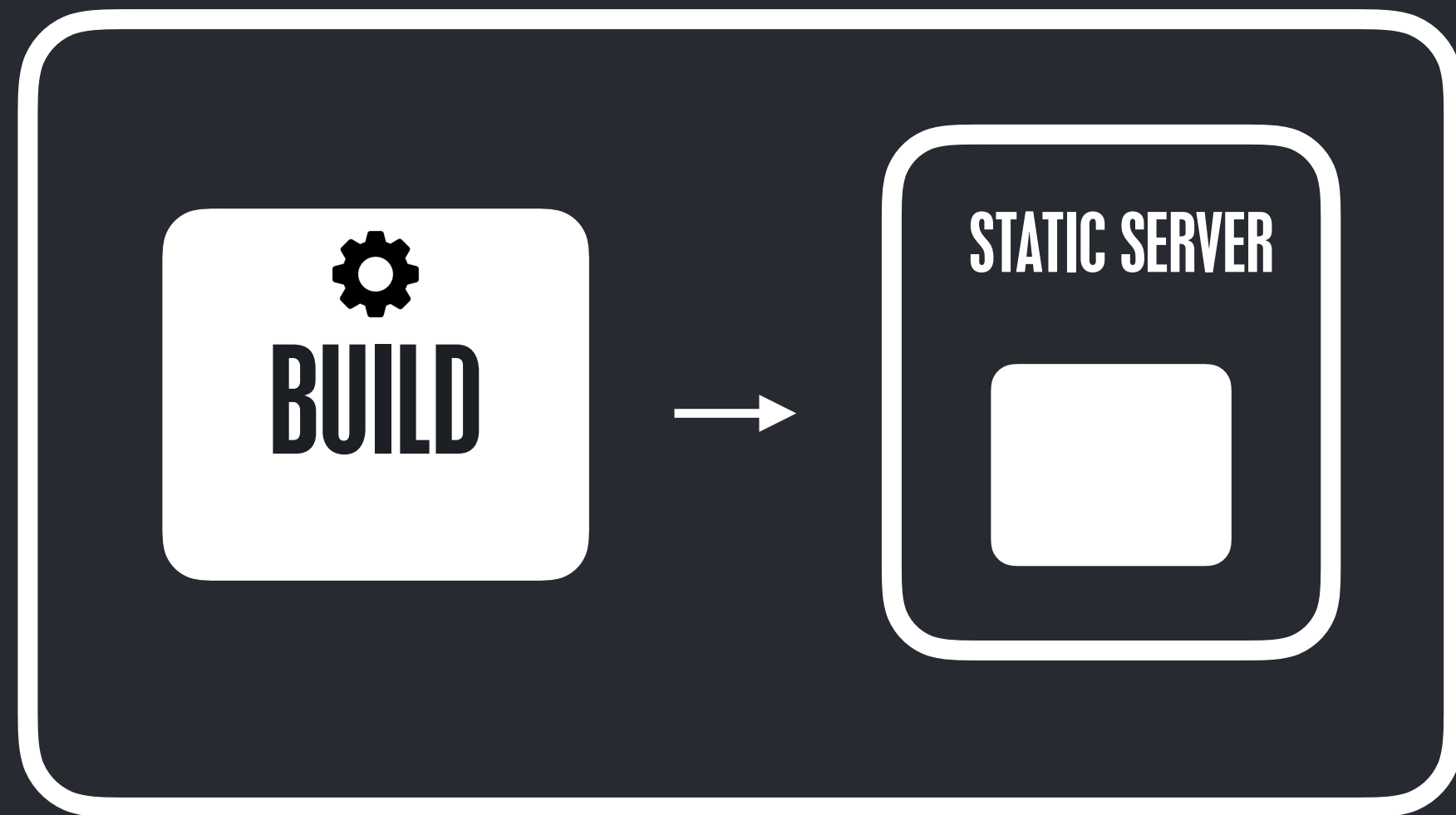
AN INTERESTING EXAMPLE

QUESTIONS

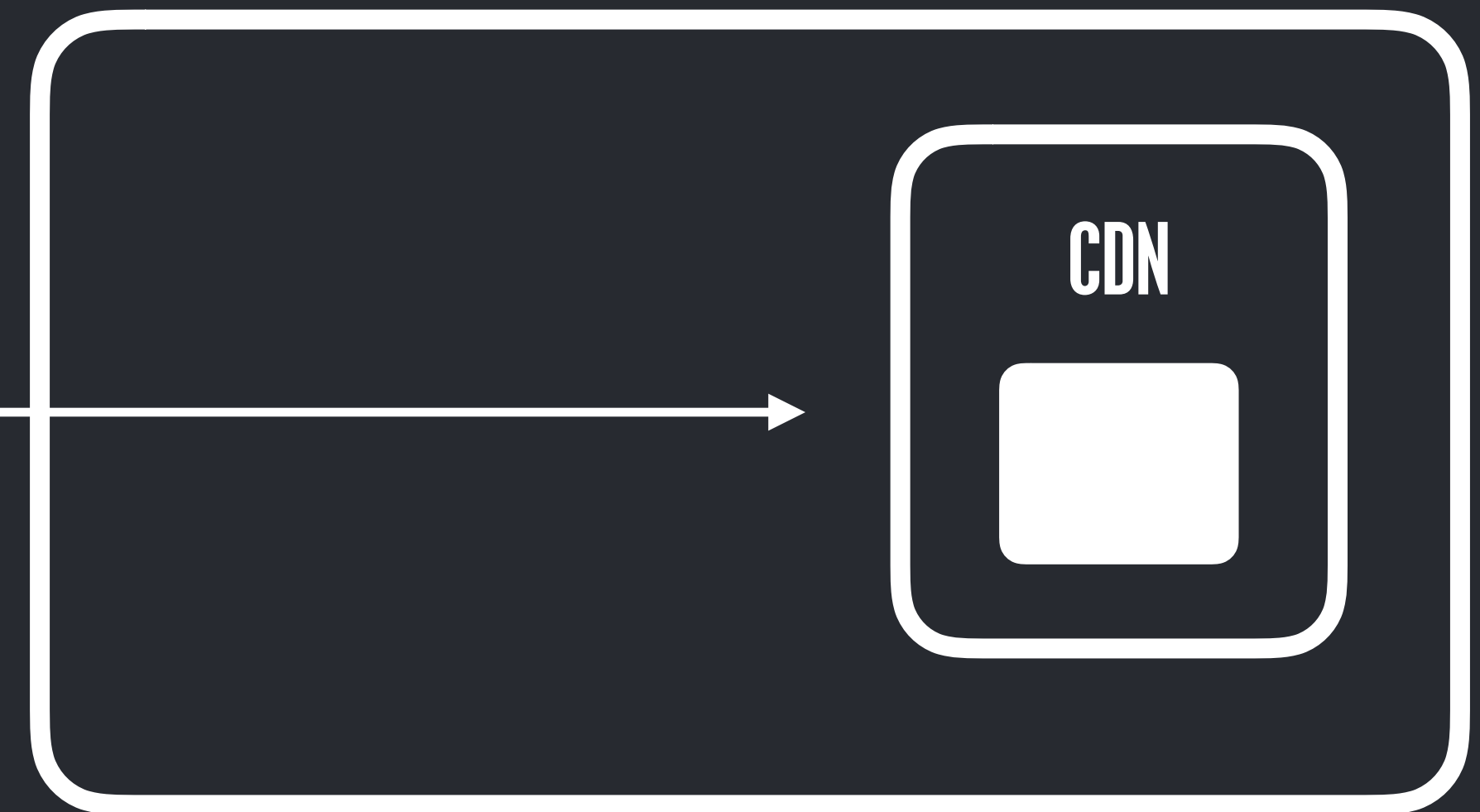
**GET
TO
THE
CHOPPER
CDN**

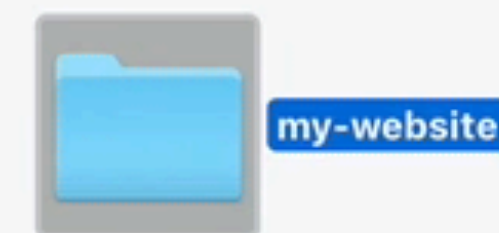


LOCAL



NETLIFY






Drag & Drop. It's online ✨

Drag and drop a folder with your site's HTML, CSS, and JS files.
We'll publish them live and give you a link to share it.

Don't have a site handy? [Download a demo site.](#)



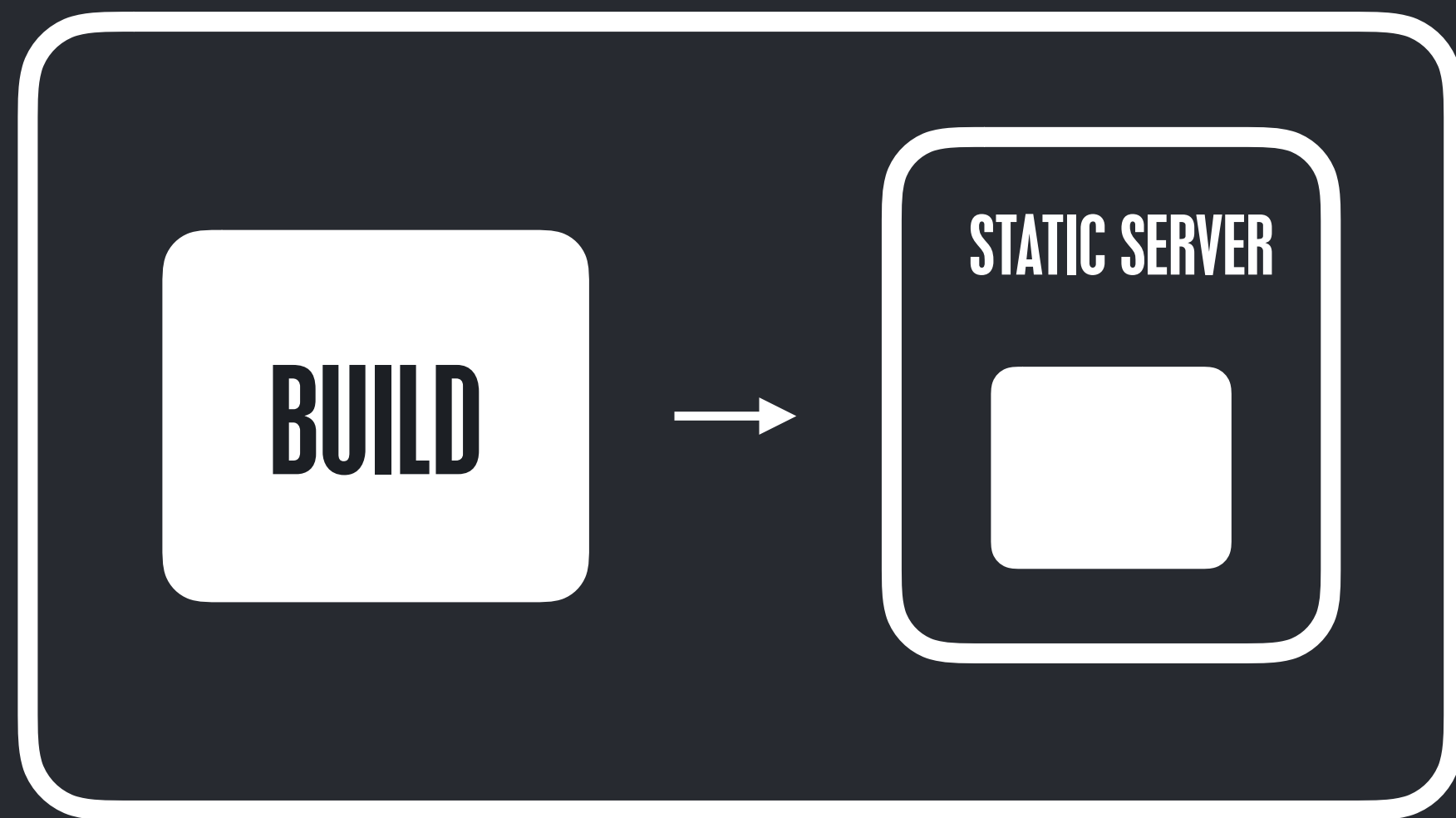
Drag and drop your site folder here



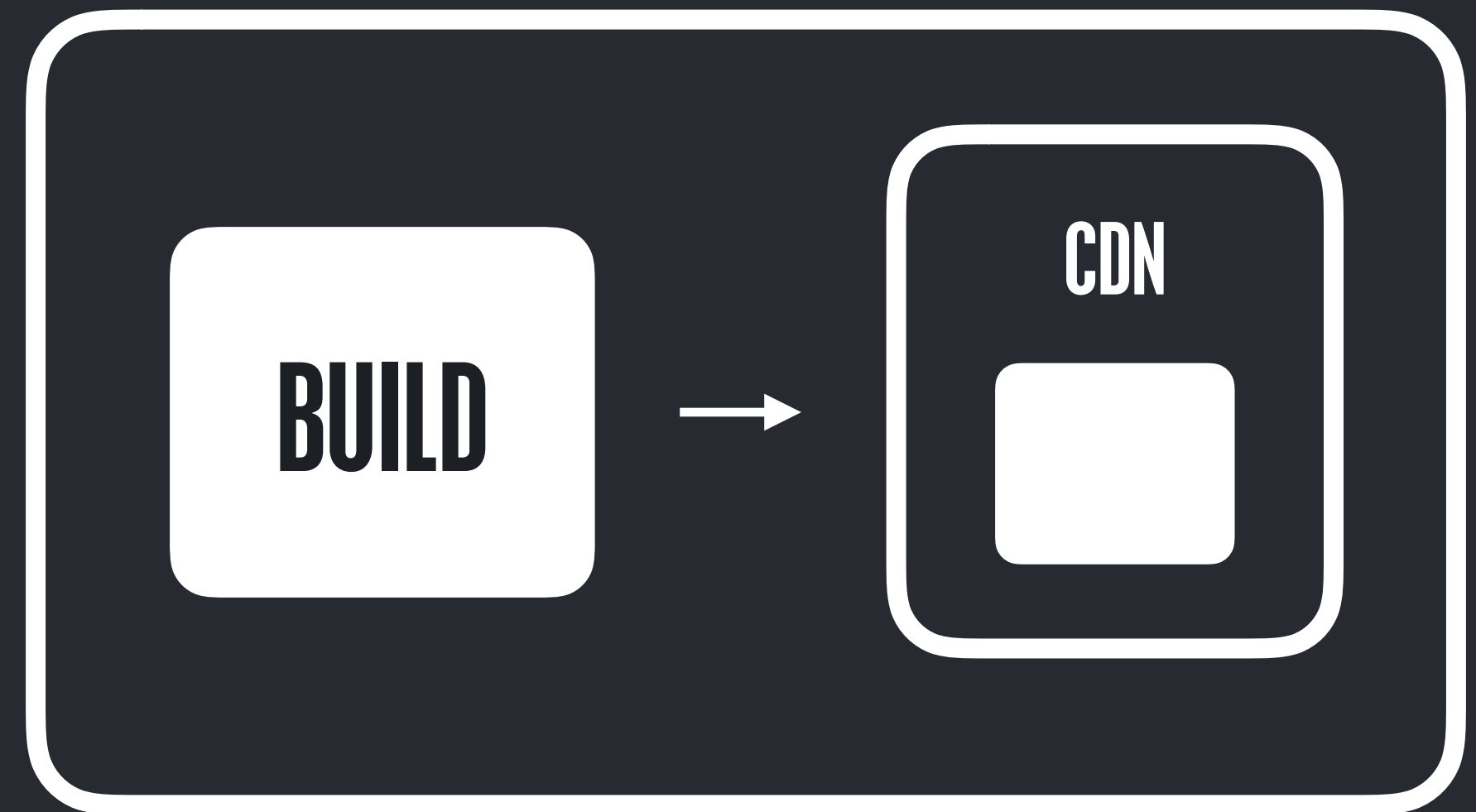
BUILD AUTOMATION

TESTS / CONTENT GATHERING / SITE GENERATION / OPTIMISATION / DEPLOY

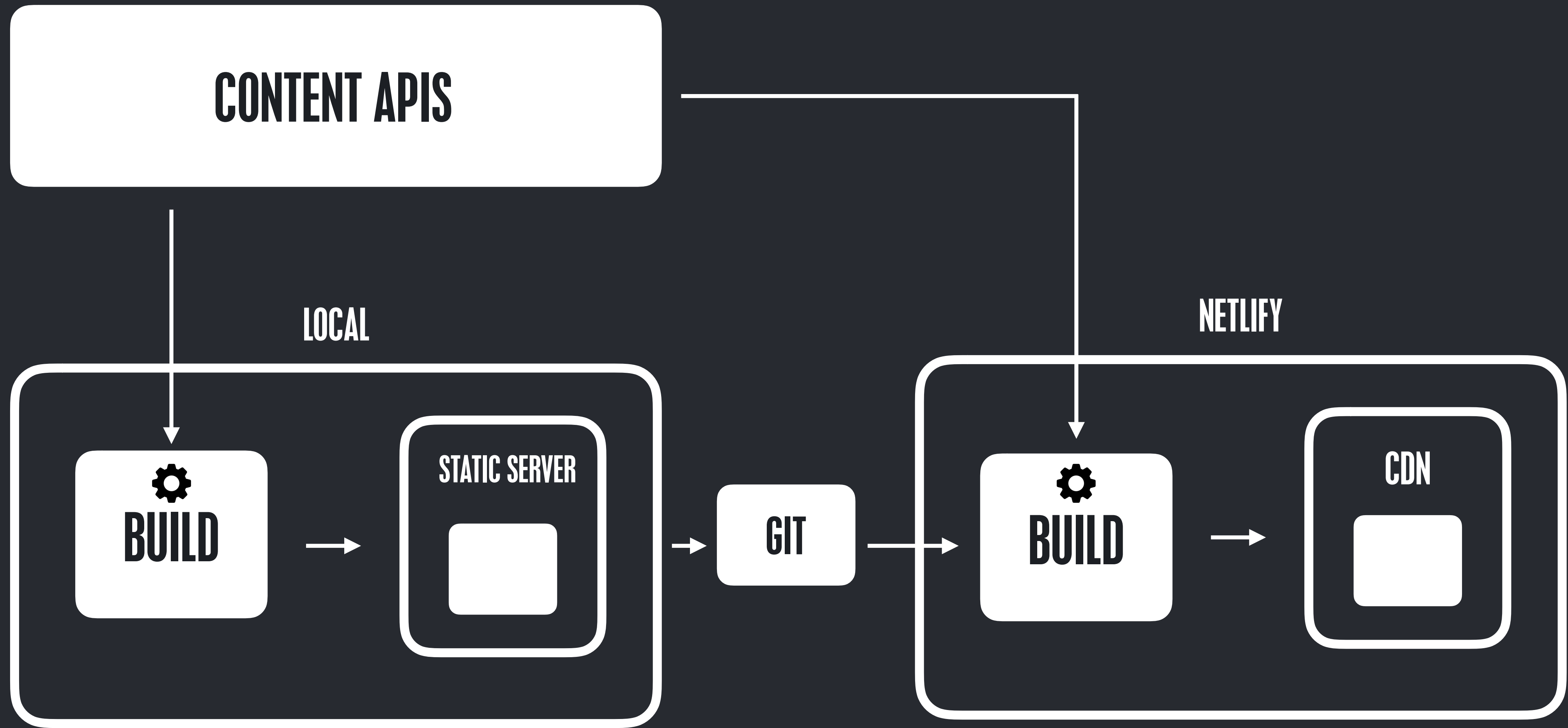
LOCAL



NETLIFY



DATA / CONTENT SOURCES



THE PLAN

SAY HELLO ✓

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A BIT OF A TOUR

THE NETLIFY ADMIN
CONTINUOUS INTEGRATION
ENVIRONMENT VARIABLES
DEPLOY HOOKS
NOTIFICATIONS
DEPLOYS AND ROLLBACKS
PROVISION UNLIMITED ENVIRONMENTS
PREVIEW BUILDS
FORM HANDLING
A/B TESTING

THE PLAN

SAY HELLO ✓

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LOW FRICTION



Zach Leatherman

@zachleat

Following



free side project idea: HTML-only static site generated clock that deploys a new version to [@netlify](#) every minute

8:54 PM - 19 Jul 2018

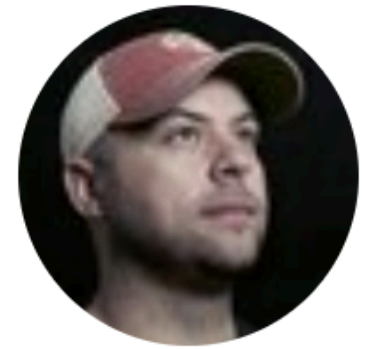
30 Likes

3



30





Chris Coyier 

@chriscoyier

Following



Replying to [@zachleat](#) [@hankchizljaw](#) [@Netlify](#)

Would be clever marketing for Netlify for sure. _Builds so cheap you can set your clock by them._

(I'm still workshopping it.)

9:12 PM - 19 Jul 2018

7 Likes





Phil Hawksworth

@philhawksworth



Replying to [@zachleat](#) [@chriscoyier](#) and 2 others

Hold my beer.

10:25 PM - 19 Jul 2018

12 Likes





Phil Hawksworth

@philhawksworth



Replying to @philhawksworth @zachleat and 3 others

Only an idiot would make what you are suggesting.

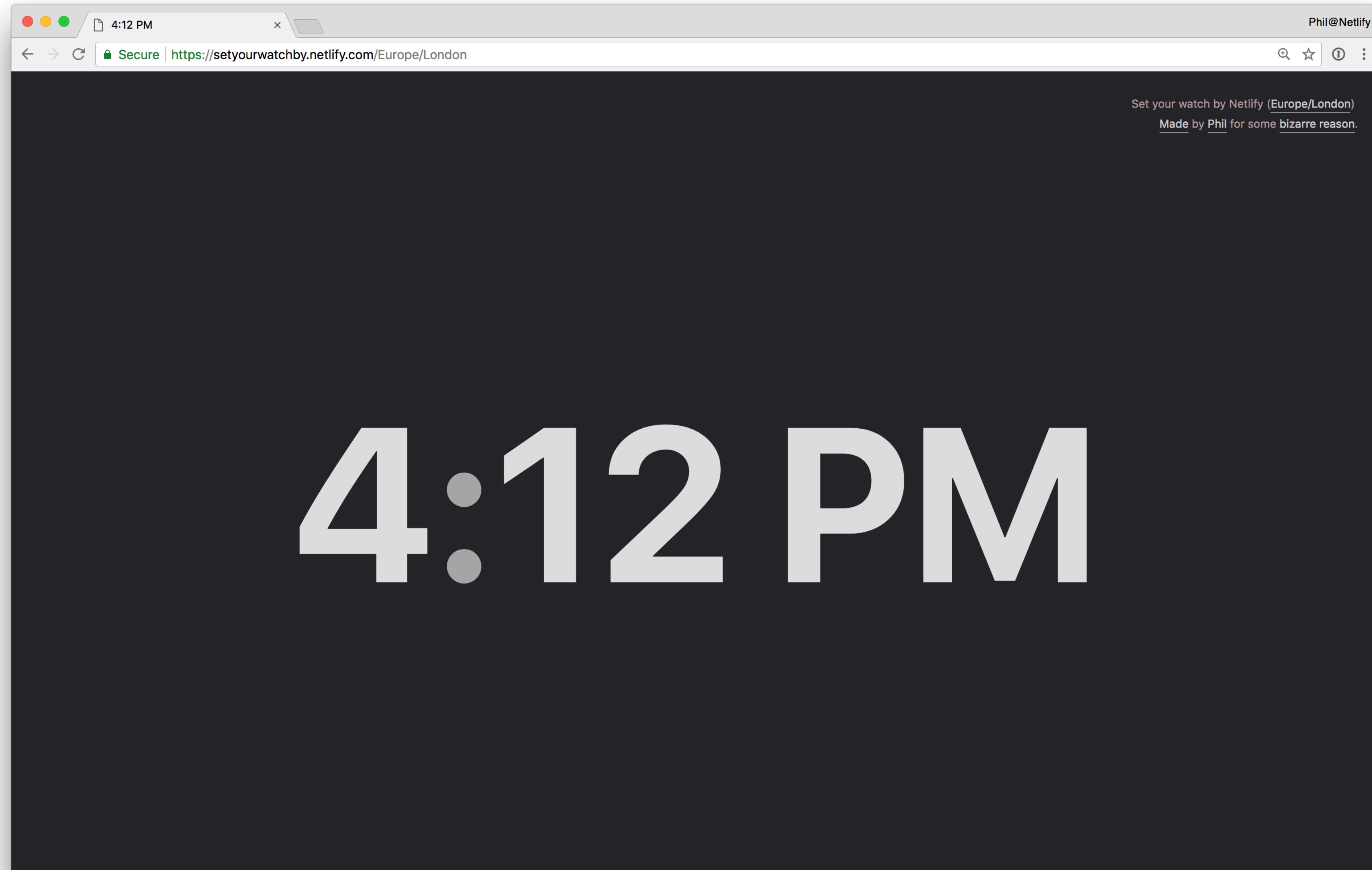
setyourwatchby.netlify.com

2:02 PM - 20 Jul 2018

12 Retweets 41 Likes



SETYOURWATCHBY.NETLIFY.COM



SETYOURWATCHBY.NETLIFY.COM

Phil@Netlify

Secure <https://setyourwatchby.netlify.com/timezones>

Set your watch by Netlify
Made by [Phil](#) for some [bizarre reason](#).

The time where you are

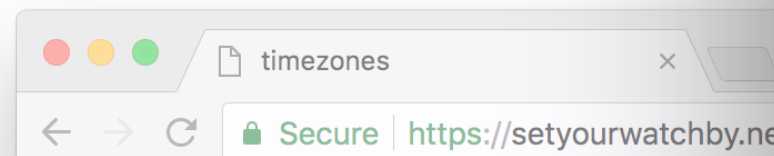
This site is served from [Netlify](#)'s intelligent CDN which can detect the country you are browsing from and quietly route you to the appropriate destination in this site.

Some countries have more than one timezone, but you can go directly to the timezone you are interested in (or look at your watch).

What? Your locale is not here? The outrage! You can always [add it with a pull request](#).

- [Pacific/Auckland](#)
- [Australia/Sydney](#)
- [Australia/Perth](#)
- [Asia/Hong_Kong](#)
- [Europe/Bucharest](#)
- [Europe/Moscow](#)
- [Europe/Istanbul](#)
- [Europe/Amsterdam](#)
- [Europe/Paris](#)
- [Europe/London](#)
- [America/New_York](#)
- [America/Chicago](#)
- [America/Denver](#)

SETYOURWATCH



The time where

This site is served from Netlify
route you to the appropriate de

Some countries have more than
look at your watch).

What? Your locale is not here?

[Pacific/Auckland](#)

[Australia/Sydney](#)

[Australia/Perth](#)

[Asia/Hong_Kong](#)

[Europe/Bucharest](#)

[Europe/Moscow](#)

[Europe/Istanbul](#)

[Europe/Amsterdam](#)

[Europe/Paris](#)

[Europe/London](#)

[America/New_York](#)

[America/Chicago](#)

[America/Denver](#)

[Pacific/Auckland](#)

[Australia/Sydney](#)

[Australia/Perth](#)

[Asia/Hong_Kong](#)

[Europe/Bucharest](#)

[Europe/Moscow](#)

[Europe/Istanbul](#)

[Europe/Amsterdam](#)

[Europe/Paris](#)

[Europe/London](#)

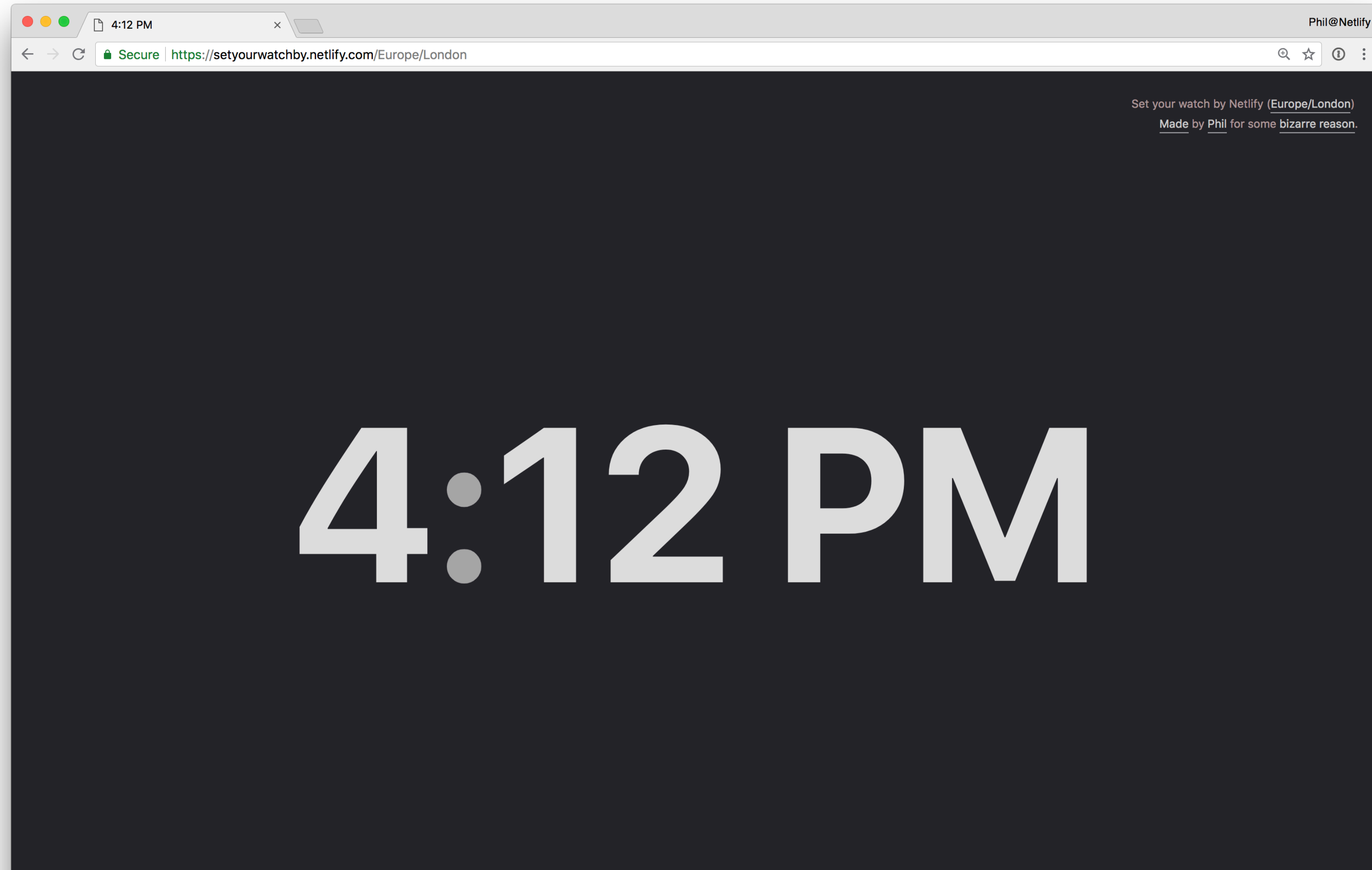
[America/New_York](#)

[America/Chicago](#)

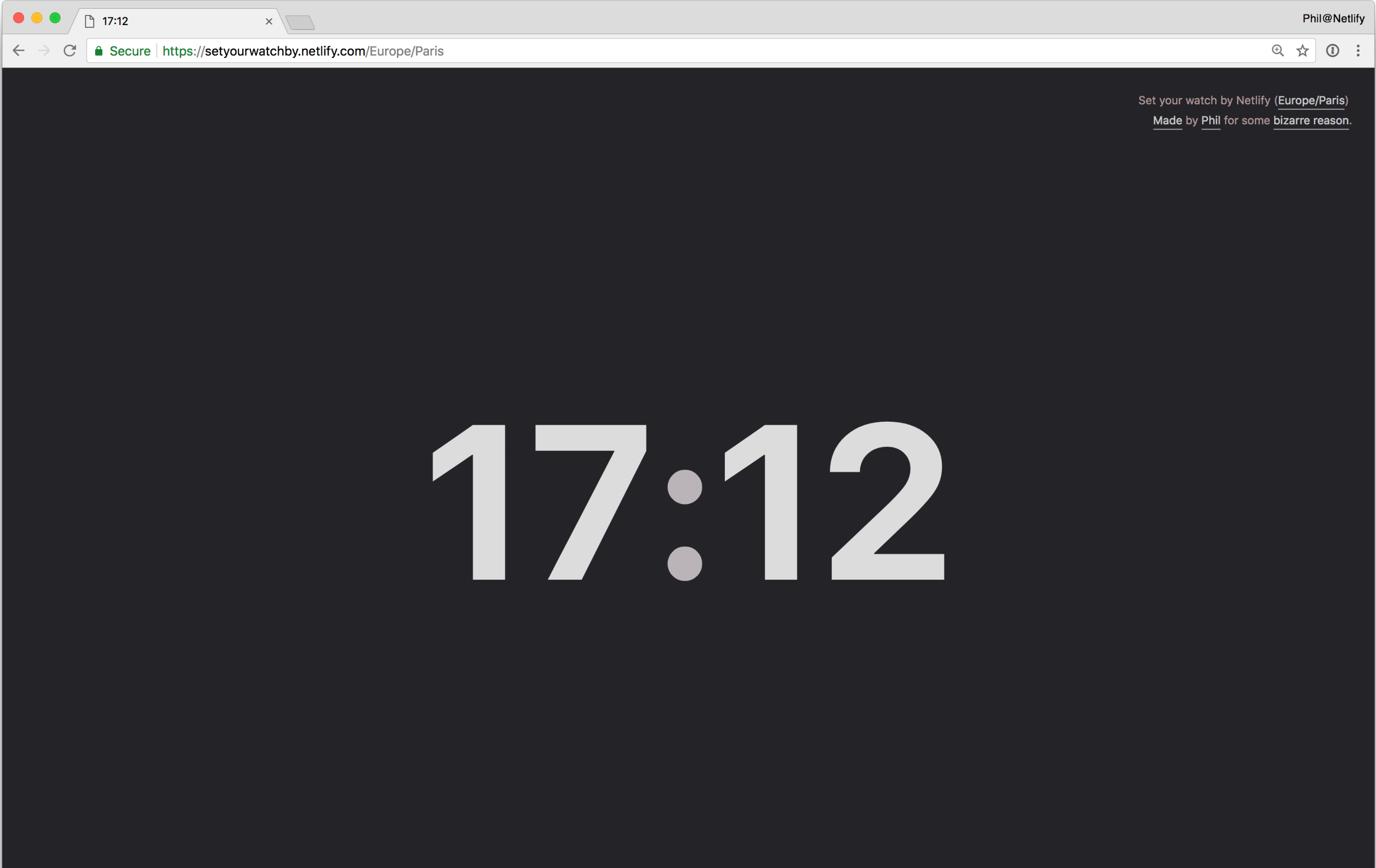
[America/Denver](#)

[America/Los Angeles](#)

SETYOURWATCHBY.NETLIFY.COM



SETYOURWATCHBY.NETLIFY.COM



WEBTASK.IO

The screenshot shows a web browser window with the title "Webtask Editor" and the URL "https://webtask.io/make". The user is identified as "Phil@Netlify". A blue banner at the top asks, "Would you like the webtask.io experience in your own SaaS? Try Extend".

The main interface is dark-themed. On the left, there is a sidebar with a search icon, a plus icon, and a folder icon. The "Scheduler" panel is open, showing options to "Refresh" and "Remove schedule". A checkbox "Write an advanced schedule" is checked. Below this are five input fields for scheduling: Minute (*/1), Hour (*), Day (*), Month (*), and Weekday (*). A large blue button labeled "Update schedule" is at the bottom of the scheduler panel. Below the scheduler, the "Stats" section shows "Run count: 57540" and "Error count: 10".

The main area is a code editor titled "Netlify-HTML-time-scheduler". It contains the following JavaScript code:

```
1 var request = require('request');
2
3 module.exports = function(cb) {
4   request({
5     method: 'POST',
6     url: 'https://api.netlify.com/build_hooks/5b51210902ed836d8a7073c4
7   });
8   cb(null, { msg: 'done '});
9 };
10
```

At the top right of the code editor, there are icons for a settings gear, a save disk, a list menu, and a play button.

WEBTASK.IO

The screenshot shows a web browser window with the URL `https://webtask.io/make`. The page features a purple banner with the text "Would you like the webtask.io experience in your own SaaS? Try Extend". Below the banner is the "webtask" logo and a "Documentation" link. The main interface displays a scheduler configuration for "Netlify-HTML-time-scheduler". A dark overlay panel is visible in the foreground, containing a blue "Update schedule" button and a "Stats" section. The stats section shows a run count of 226494 and an error count of 32, with a status of "Completed seconds ago".

Webtask Editor Phil@Netlify

Secure | `https://webtask.io/make`

Would you like the webtask.io experience in your own SaaS? Try Extend

webtask Documentation

Scheduler Netlify-HTML-time-scheduler

Update schedule

Stats

Run count: **226494** Error count: **32**

✔ Completed seconds ago

```
est');  
b) {  
  
fy.com/build_hooks/5b51210902ed836d8a7073c4  
;  
;
```

THE PLAN

SAY HELLO ✓

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COMMENTS ENGINE DEMO

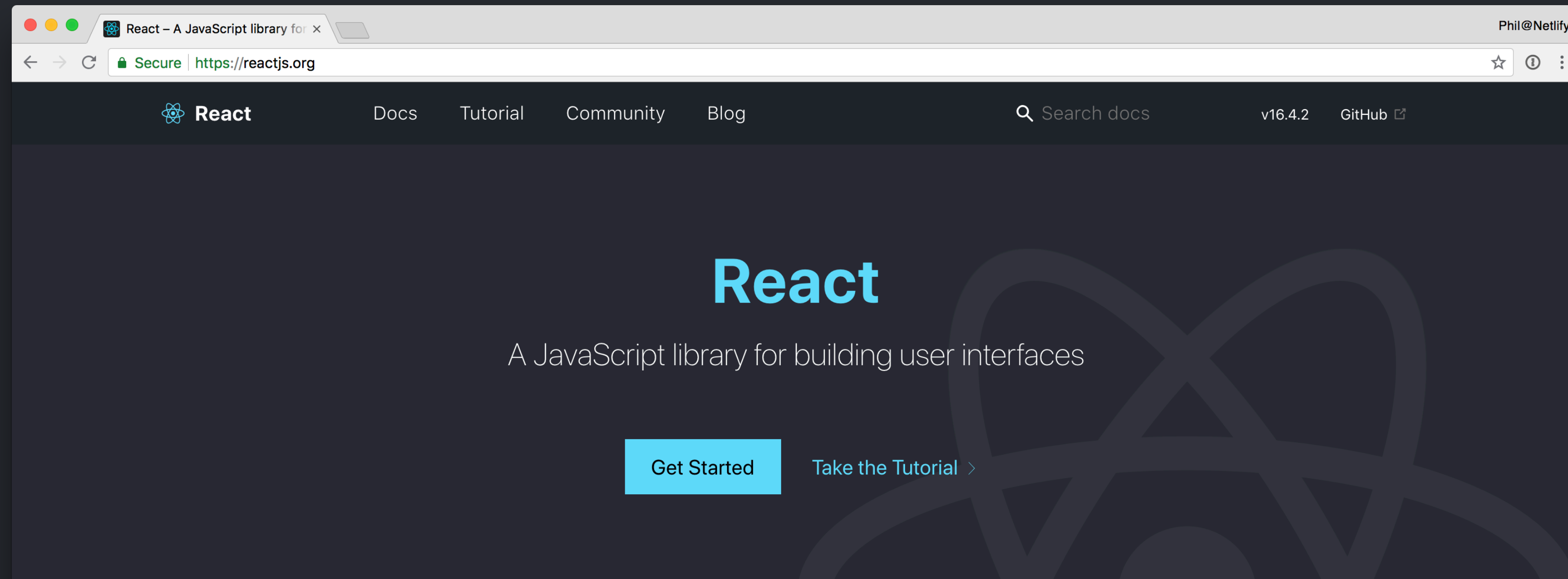
or

NETLIFY DEV?

FINDTHAT.AT / DEV

POSSIBILITIES

REACTJS.ORG



The screenshot shows a browser window with the ReactJS.org homepage. The browser's address bar shows the URL <https://reactjs.org>. The page features a dark blue header with the React logo and navigation links for Docs, Tutorial, Community, and Blog. A search bar and version information (v16.4.2) are also present. The main content area has a large 'React' title and a subtitle 'A JavaScript library for building user interfaces'. Two buttons are visible: 'Get Started' and 'Take the Tutorial >'. The background features a faint, large React logo.

Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Declarative views make your code more predictable and easier to debug.

Component-Based

Build encapsulated components that manage their own state, then compose them to make complex UIs.

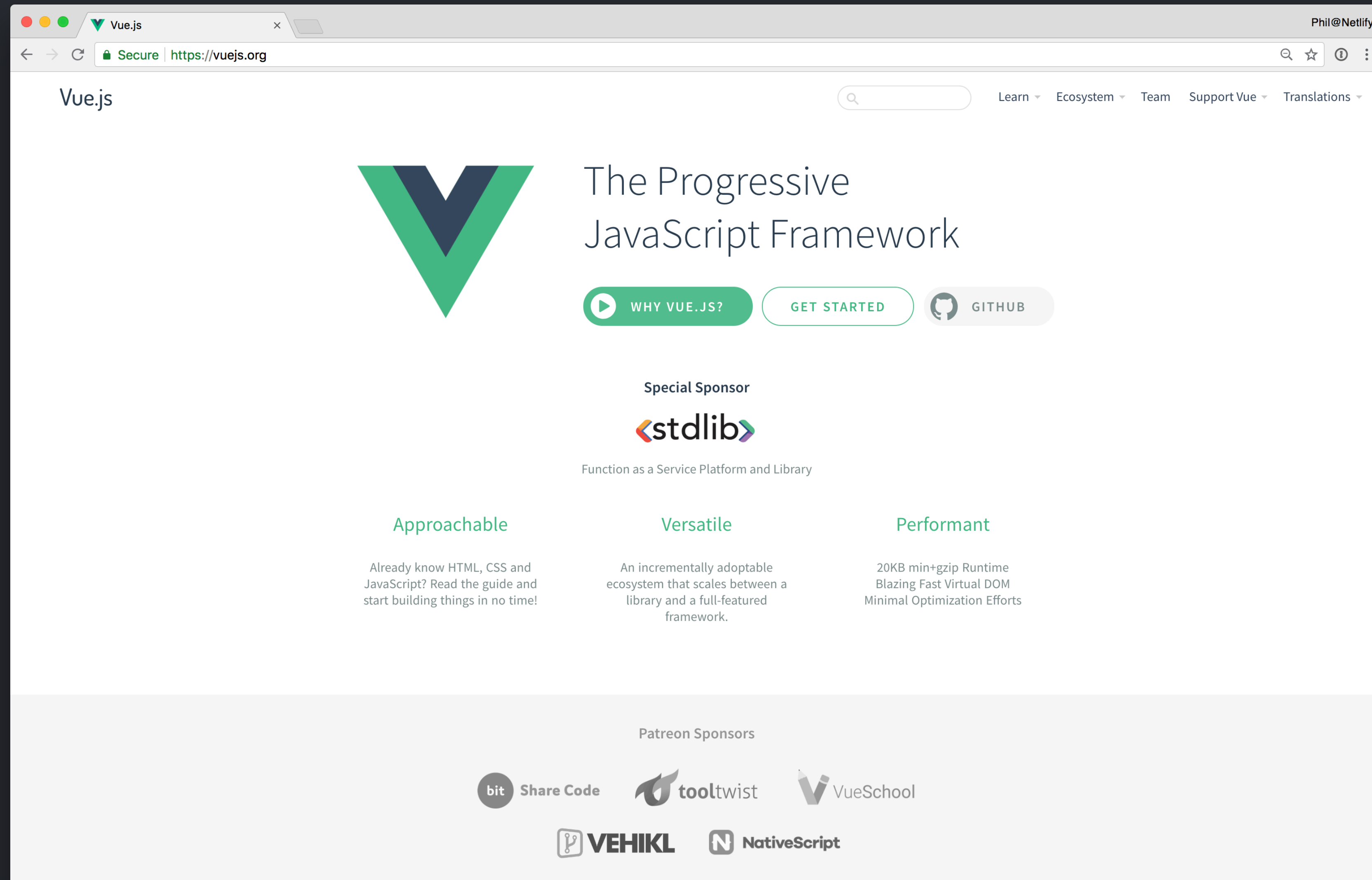
Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.

Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

React can also render on the server using Node and power mobile apps using [React Native](#).

VUEJS.ORG



The screenshot shows the Vue.js website homepage. At the top left is the 'Vue.js' logo. The navigation menu includes 'Learn', 'Ecosystem', 'Team', 'Support Vue', and 'Translations'. A search bar is located in the top right. The main content area features the large green and blue 'V' logo, followed by the heading 'The Progressive JavaScript Framework'. Below this are three buttons: 'WHY VUE.JS?' (with a play icon), 'GET STARTED', and 'GITHUB' (with the GitHub logo). A 'Special Sponsor' section highlights 'stdlib' with the tagline 'Function as a Service Platform and Library'. Three key features are listed: 'Approachable' (for those with HTML, CSS, and JavaScript knowledge), 'Versatile' (for an incrementally adoptable ecosystem), and 'Performant' (with 20KB min+gzip runtime and a blazing fast virtual DOM). The footer lists 'Patreon Sponsors' including bit Share Code, tooltwist, VueSchool, VEHIKL, and NativeScript.

Vue.js

Learn Ecosystem Team Support Vue Translations

The Progressive JavaScript Framework

WHY VUE.JS? GET STARTED GITHUB

Special Sponsor

stdlib

Function as a Service Platform and Library

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


bit Share Code tooltwist VueSchool

VEHIKL NativeScript

YARNPKG.COM

Yarn Phil@Netlify

Secure | <https://yarnpkg.com/lang/en/> 🔍 ☆ ⓘ ⋮

 [Getting Started](#) [Docs](#) [Packages](#) [Blog](#) 🌐 English 🗨️ 🐦 📘 🔄

🔍 Search packages (i.e. babel, webpack, react...)

FAST, RELIABLE, AND SECURE DEPENDENCY MANAGEMENT.

[GET STARTED](#) [INSTALL YARN](#) [🌟 Star 32,917](#)

Stable: [v1.9.4](#)
Node: [^4.8.0](#) || [^5.7.0](#) || [^6.2.2](#) || [>=8.0.0](#)

Ultra Fast.

Yarn caches every package it downloads so it never needs to download it again. It also parallelizes operations to maximize resource utilization so install times are faster than ever.



BUT ALSO

SMASHINGMAGAZINE.COM

The screenshot shows the Smashing Magazine website homepage. At the top, there is a navigation bar with the Smashing Magazine logo and several menu items: Articles (Design & development), Books (Physical & digital books), Events (Conferences & workshops), Jobs (Find work & employees), and Membership (Webinars & early-birds). A search bar labeled 'Topics' is also present. Below the navigation bar, a central section titled 'Don't Miss These Latest Articles' features three featured articles. Each article includes the author's name and profile picture, the article title, a 'Leave a comment' button, and a list of tags with their respective counts. At the bottom of the page, a 'LATEST' section displays four more articles with their titles and dates.

Smashing Magazine — For Web x Phil@Netlify

Secure | <https://www.smashingmagazine.com>

SMASHING MAGAZINE

Articles
Design & development

Books
Physical & digital books

Events
Conferences & workshops

Jobs
Find work & employees

Membership
Webinars & early-birds

Topics

Don't Miss These Latest Articles

Seriously, red?

Mayur Kshirsagar wrote

A Brief Guide About Competitive Analysis

Leave a comment

User Experience ²³⁶ # Performance ⁸⁴

Analysis ⁷

Alvin Wan wrote

Building A Room Detector For IoT Devices On Mac OS

3 comments

Node.js ²⁴ # JavaScript ¹⁹⁷ # Apps ¹⁴⁸

Stéphanie Walter wrote

UX And HTML5: Let's Help Users Fill In Your Mobile Form (Part 2)

6 comments

User Experience ²³⁶ # Mobile ³¹¹

Forms ²⁶

7 DAYS AGO

LATEST

Making Distributed Product Teams Work More Efficiently

8 DAYS AGO

Designing The Invisible: 3 Things I Learned Designing

9 DAYS AGO

Onboarding Users Of Your Product: From Trial To

10 DAYS AGO

UX And HTML5: Let's Help Users Fill In Your Mobile

STATIC SITE GENERATORS

staticgen.com

NETLIFY

www.netlify.com

NETLIFY DEV

www.netlify.com/products/dev

SET YOUR WATCH – FRICTION FREE DEPLOYMENTS

<https://www.netlify.com/blog/2018/08/02/exploring-the-potential-of-friction-free-deployments/>

ONE-CLICK TEMPLATES

templates.netlify.com

THE PLAN

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@PHILHAWKSWORTH