

STATIC SITE GENERATORS AND NETLIFY

PHIL HAWKSWORTH



NEED TO SET UP GITHUB?

 findthat.at/setup

STATIC SITE GENERATORS AND NETLIFY

PHIL HAWKSWORTH



PHIL HAWKSWORTH

HEAD OF DEVELOPER RELATIONS,
NETLIFY

@PHIL HAWKSWORTH
HEAD OF DEVELOPER RELATIONS,
NETLIFY

CONCEPT

EXAMPLE

EXERCISE

BEFORE WE BEGIN

GITHUB ACCOUNT / GIT INSTALLED / NODE INSTALLED / YARN INSTALLED

let's do this!

ECOSYSTEM

CONTENT / ASSETS / AUTHENTICATION / E-COMMERCE / SEARCH

BROWSERS

EVERGREEN / RICH APIS / OFFLINE / PERFORMANCE / STANDARDISATION

INFRASTRUCTURE

TOOLING / CDN / CI/CD / AUTOMATION / TRIGGERS / EVENTS

CONCEPT

RENDERING SOMEWHERE

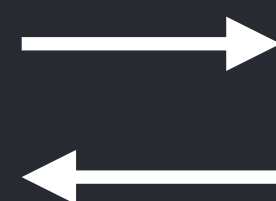
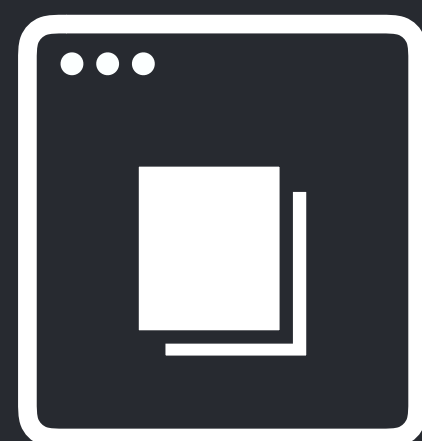
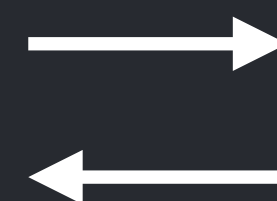
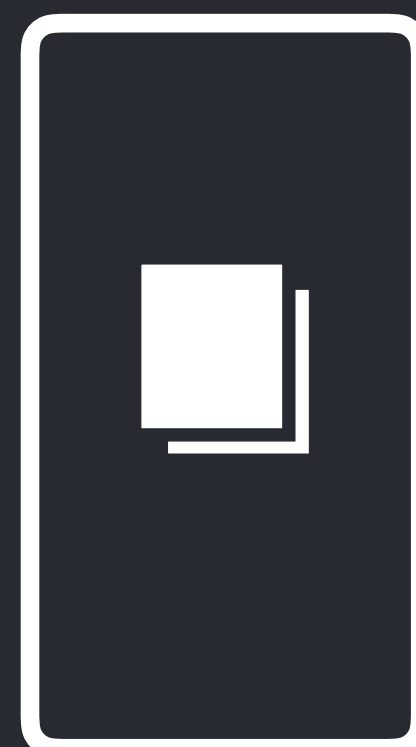
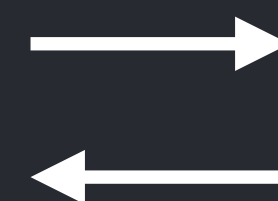
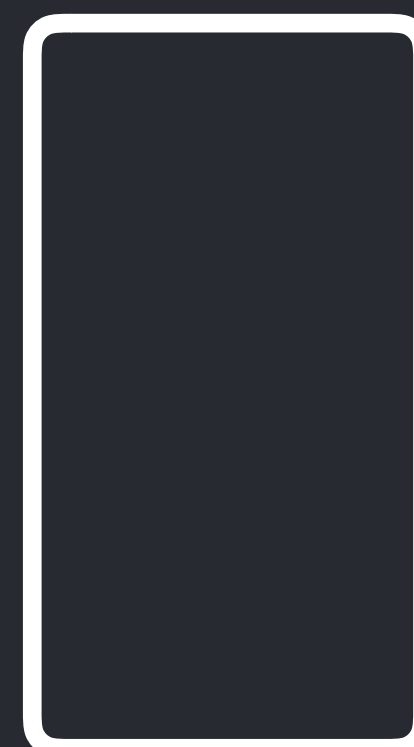
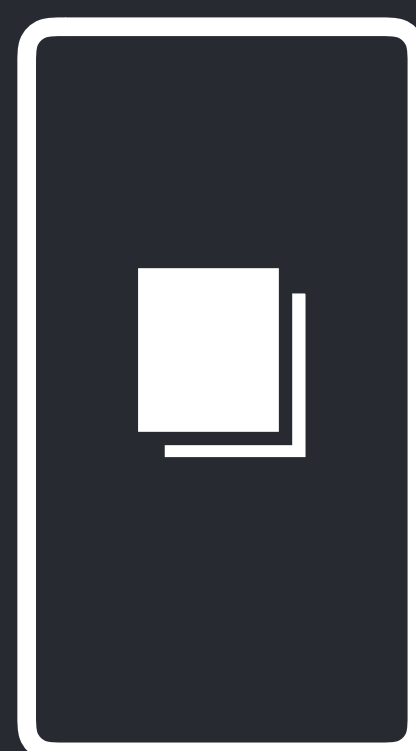
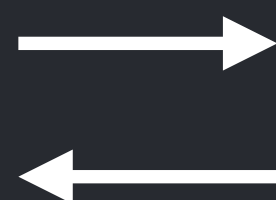
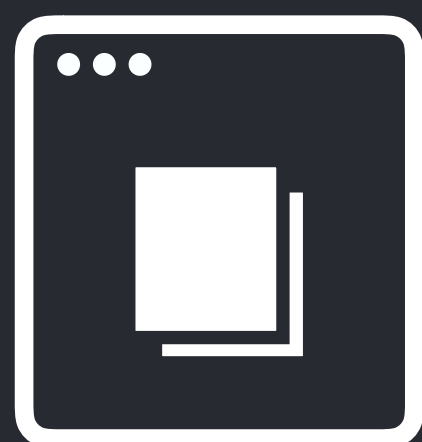
SERVER RENDER

CLIENT RENDER / PRE-RENDER



PRE-RENDERED *vs* STATIC

STATIC *vs* DYNAMIC

dynamic**CDN****LOAD BALANCER****WEB SERVERS****DB SERVERS***static*

STATIC
means

CAPABLE OF BEING SERVED
DIRECTLY FROM A CDN

jamstack

JAMSTACK ENABLERS

ECOSYSTEM

CONTENT / ASSETS / AUTHENTICATION / E-COMMERCE / SEARCH

BROWSERS

EVERGREEN / RICH APIS / OFFLINE / PERFORMANCE / STANDARDISATION

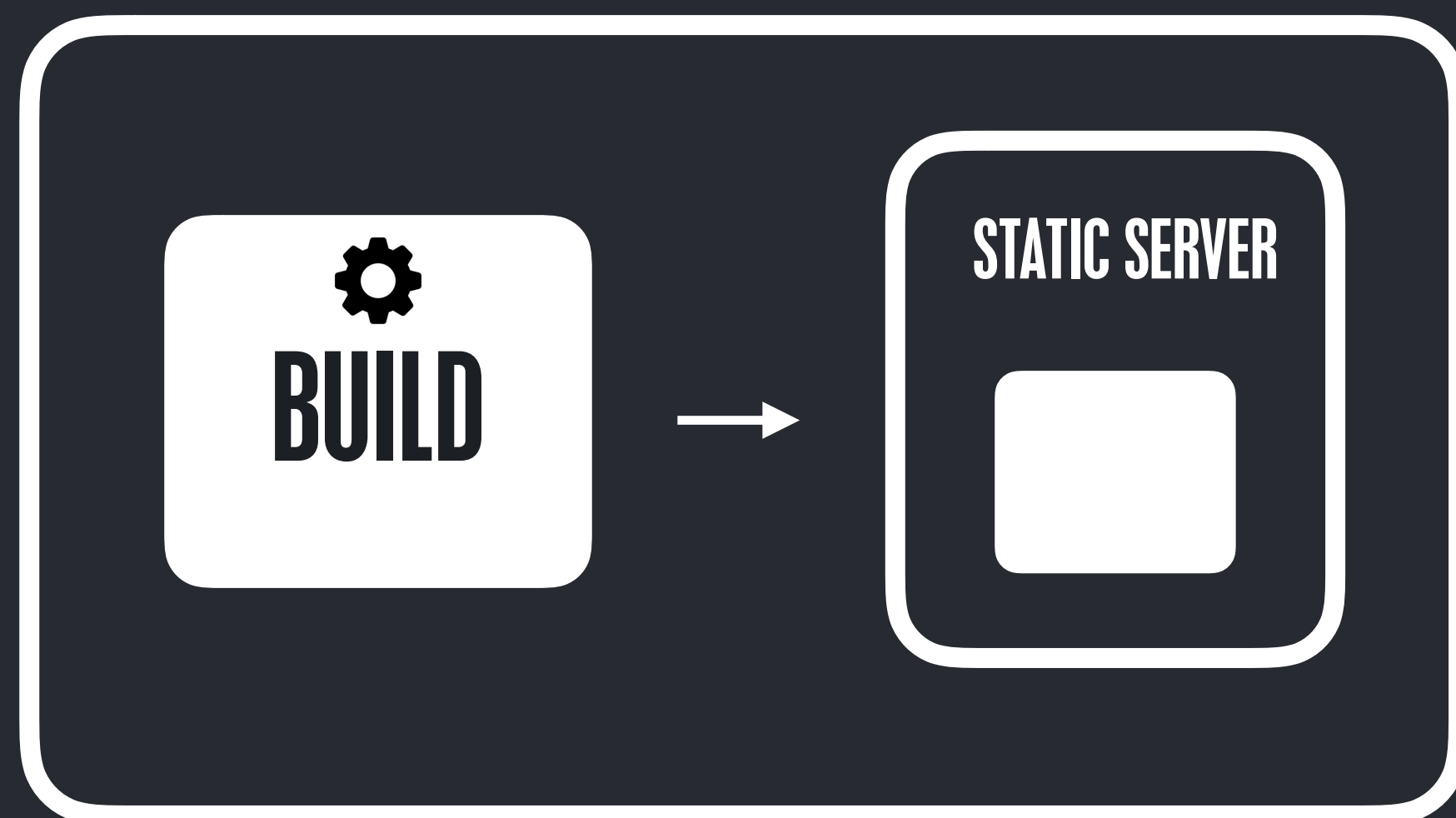
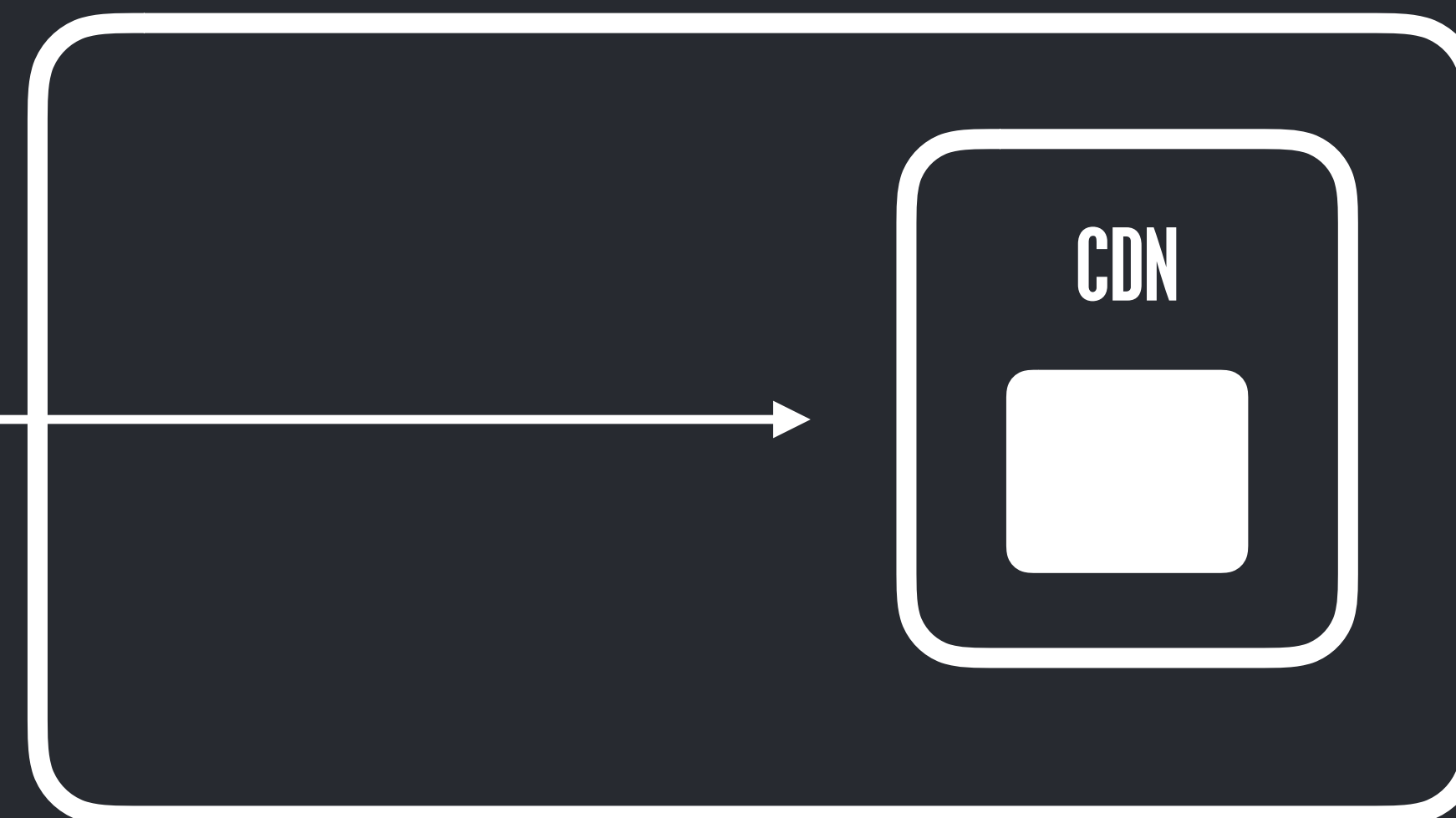
INFRASTRUCTURE

TOOLING / CDN / CI/CD / AUTOMATION / TRIGGERS / EVENTS

OUR FOCUS

WORKING WITH SSGs
WORKING WITH NETLIFY

SSG

LOCAL**HOSTING****CONTENT
TEMPLATES
DATA**



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



my-website



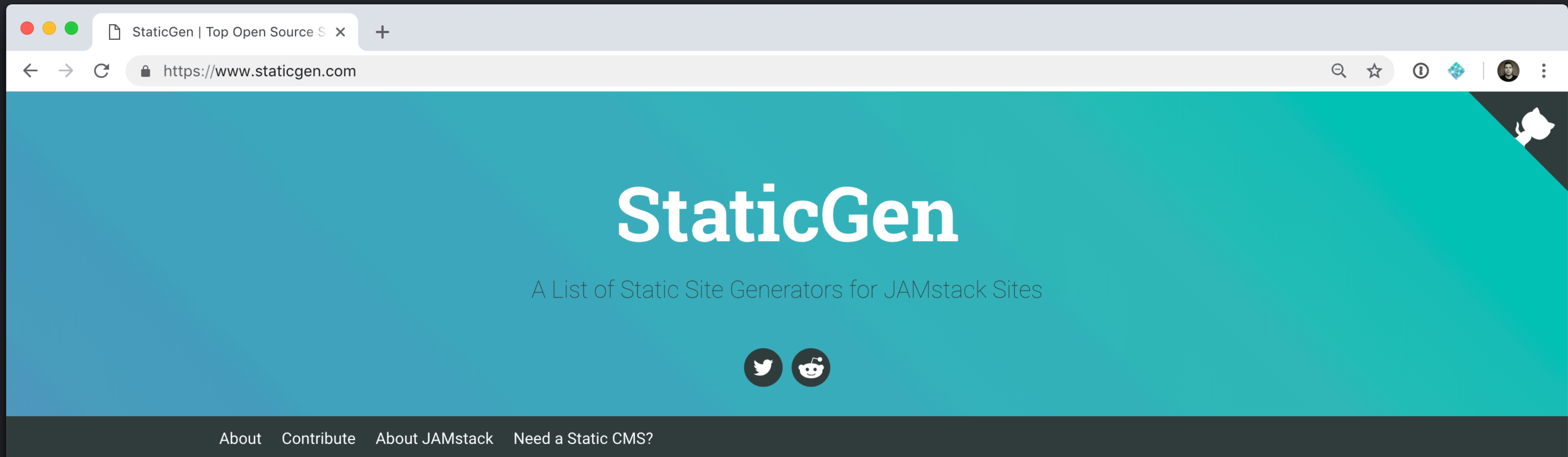
thanks!

HOW TO CHOOSE?

the right

SSG

STATICGEN.COM

**Filter**

Any Language ▾

Any Template ▾

Any License ▾

Sort

GitHub stars ▾

Jekyll

★	!	🔗	🐦
36168	140	7940	6599
+1979	+20	+405	+276

Next

★	!	🔗	🐦
32165	338	3433	N/A
+7141	+87	+1062	

Hugo

★	!	🔗	🐦
30742	310	3558	5308
+5287	+54	+464	+1666

Get started with one click!

For generators with the "Deploy to Netlify" button, you can

LANGUAGE WORKFLOW PERFORMANCE ARCHITECTURE OUTPUT CONTROL ADOPTION

JEKYLL HUGO GATSBY
NEXT NUXT VUEPRESS

OUR SSG FOR TODAY ELEVENTY



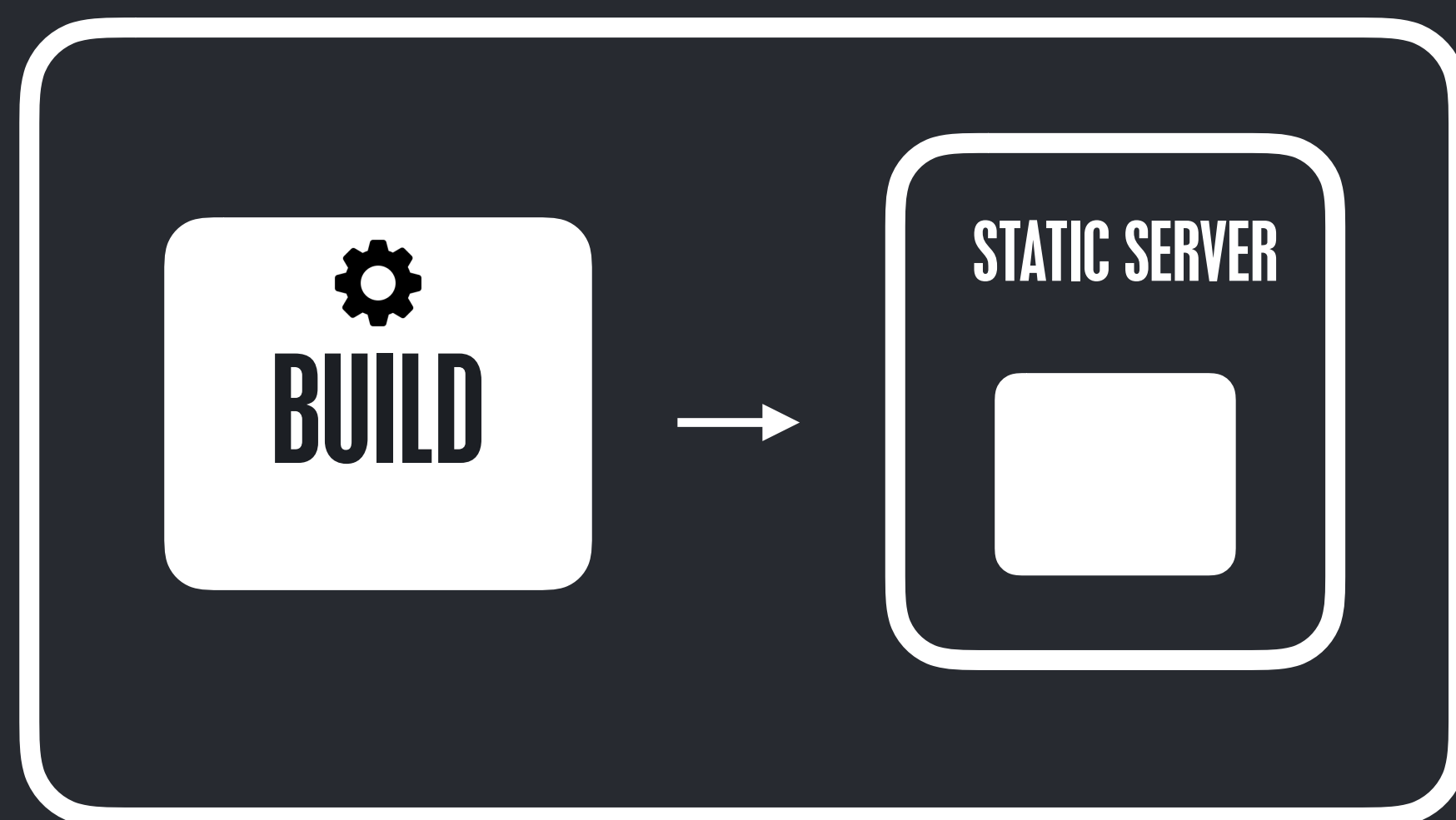
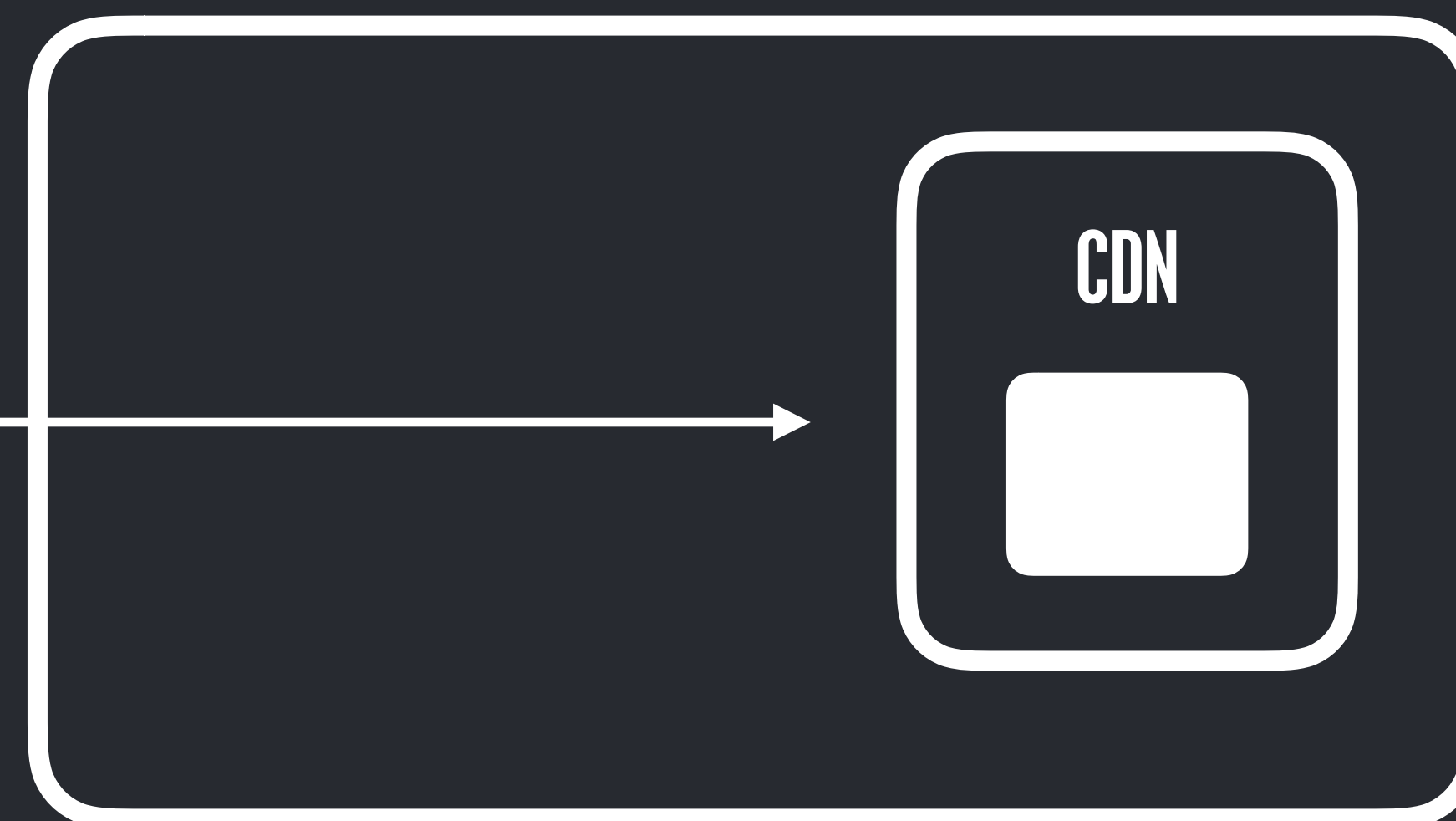
WHY ELEVENTY?

LOGICAL ARCHITECTURE

FLEXIBLE TEMPLATING

NOTHING YOU DON'T ASK FOR

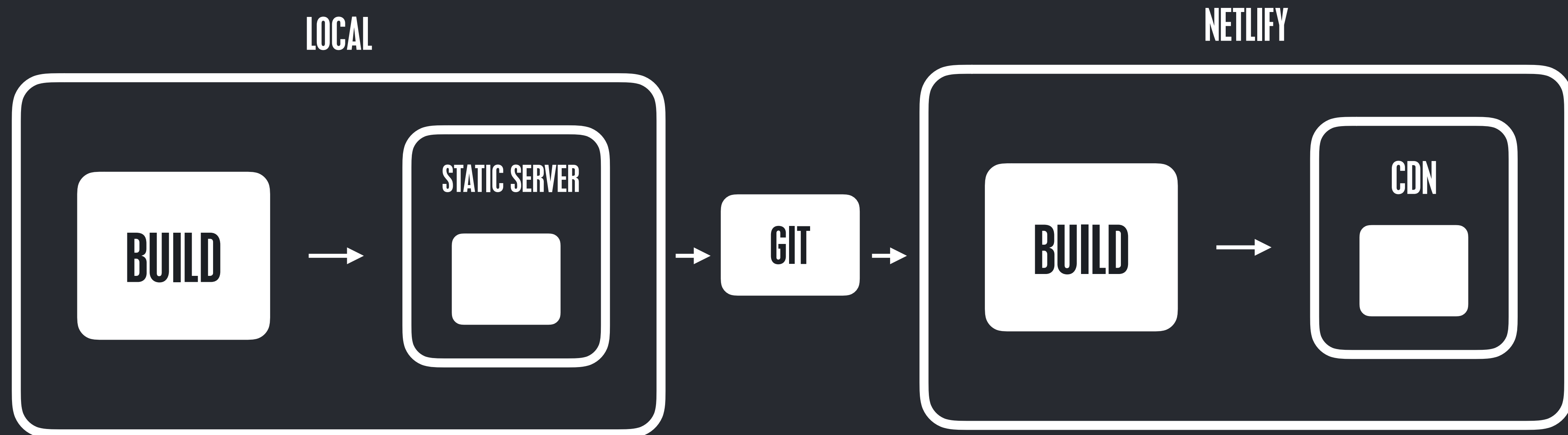
JAVASCRIPT ALL THE WAY DOWN

LOCAL**HOSTING****CONTENT
TEMPLATES
DATA**

CONCEPT



GIT-BASED DEPLOYMENTS



EXAMPLE

First look at Eleventy site structure

EXERCISE

First build, then first deploy

MINIMUM VIABLE SITE

 findthat.at/repo

ABOUT THE FOLDERS

CONCEPT

ATOMIC DEPLOYS

IMMUTABLE DEPLOYS

ADDRESSABLE DEPLOYS

EXAMPLE

EXERCISE

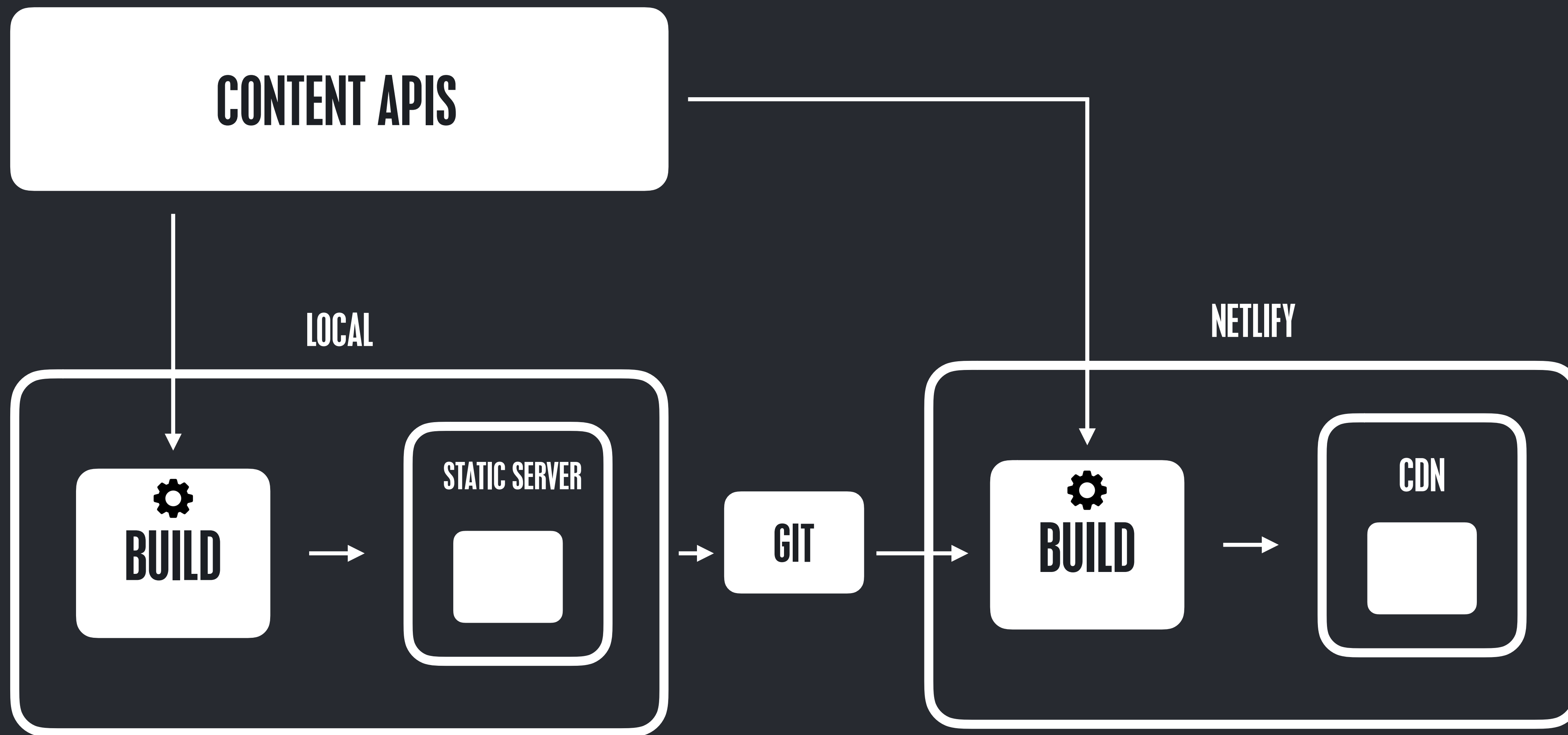


Modify site , deploy, rollback

CONCEPT



DATA ABSTRACTION



EXAMPLE

add medium, local seed, targets

EXERCISE

add medium, local seed, targets

DATA TO/FROM NETLIFY

FORMS

EXAMPLE

EXERCISE

add a form and some entries

NETLIFY API

👉 findthat.at/api

AUTH AND ENVIRONMENT VARIABLES

EXAMPLE

get proposal data from API

EXERCISE

create auth tokens, get proposal data from API locally and in prod

CONCEPT



EVENTS AND WEBHOOKS ARE WHERE THE FUN IS!

AUTOMATION AND LOW FRICTION



Zach Leatherman

@zachleat

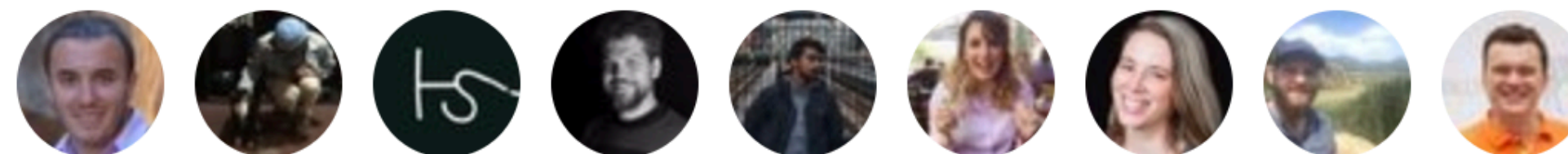
Following



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

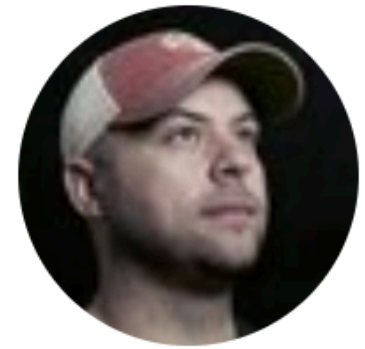


3



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



2



12





Phil Hawksworth

@philhawksworth



Replying to @philhawksworth @zachleat and 3 others

Only an idiot would make what you are suggesting.

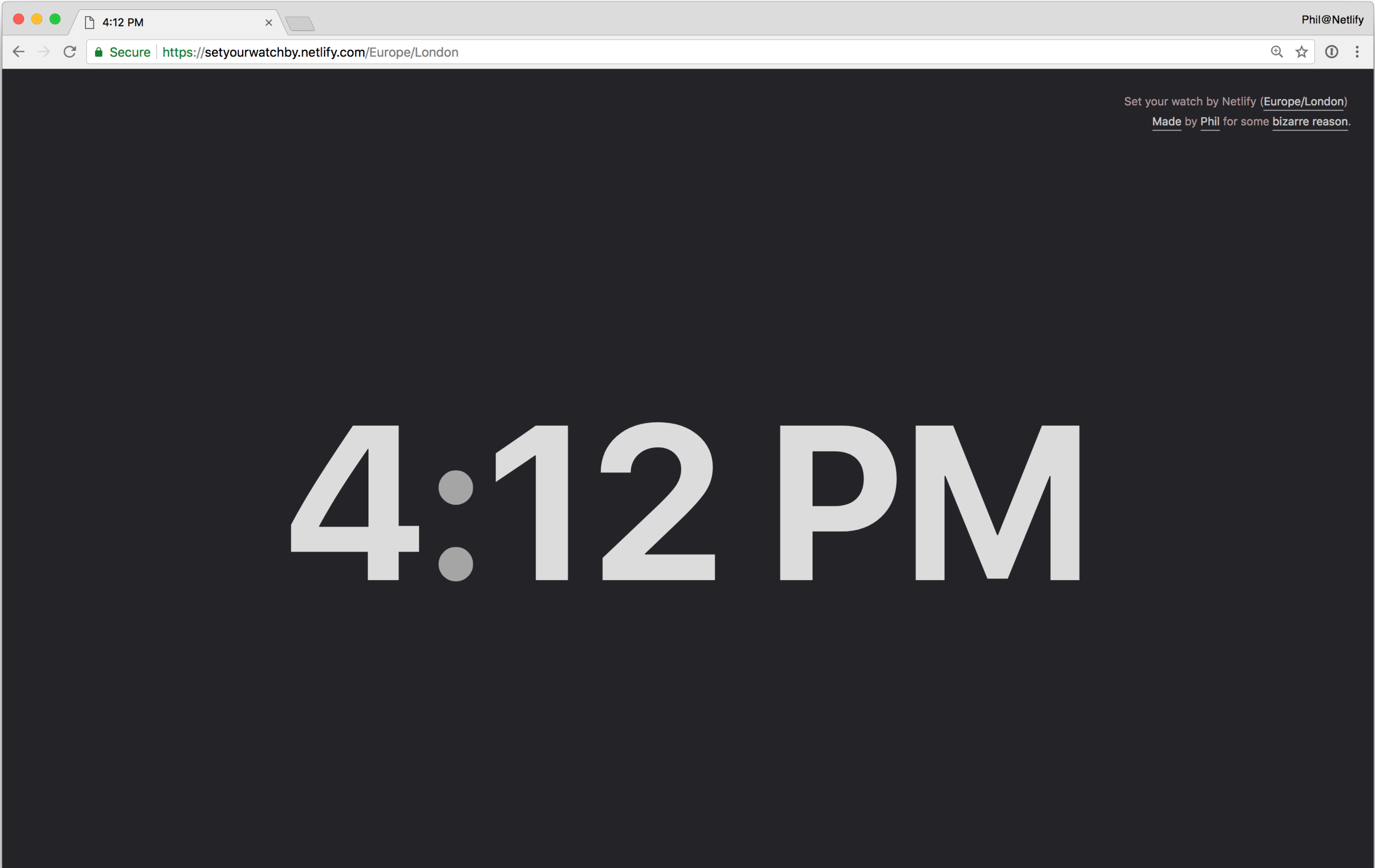
setyourwatchby.netlify.com

2:02 PM - 20 Jul 2018

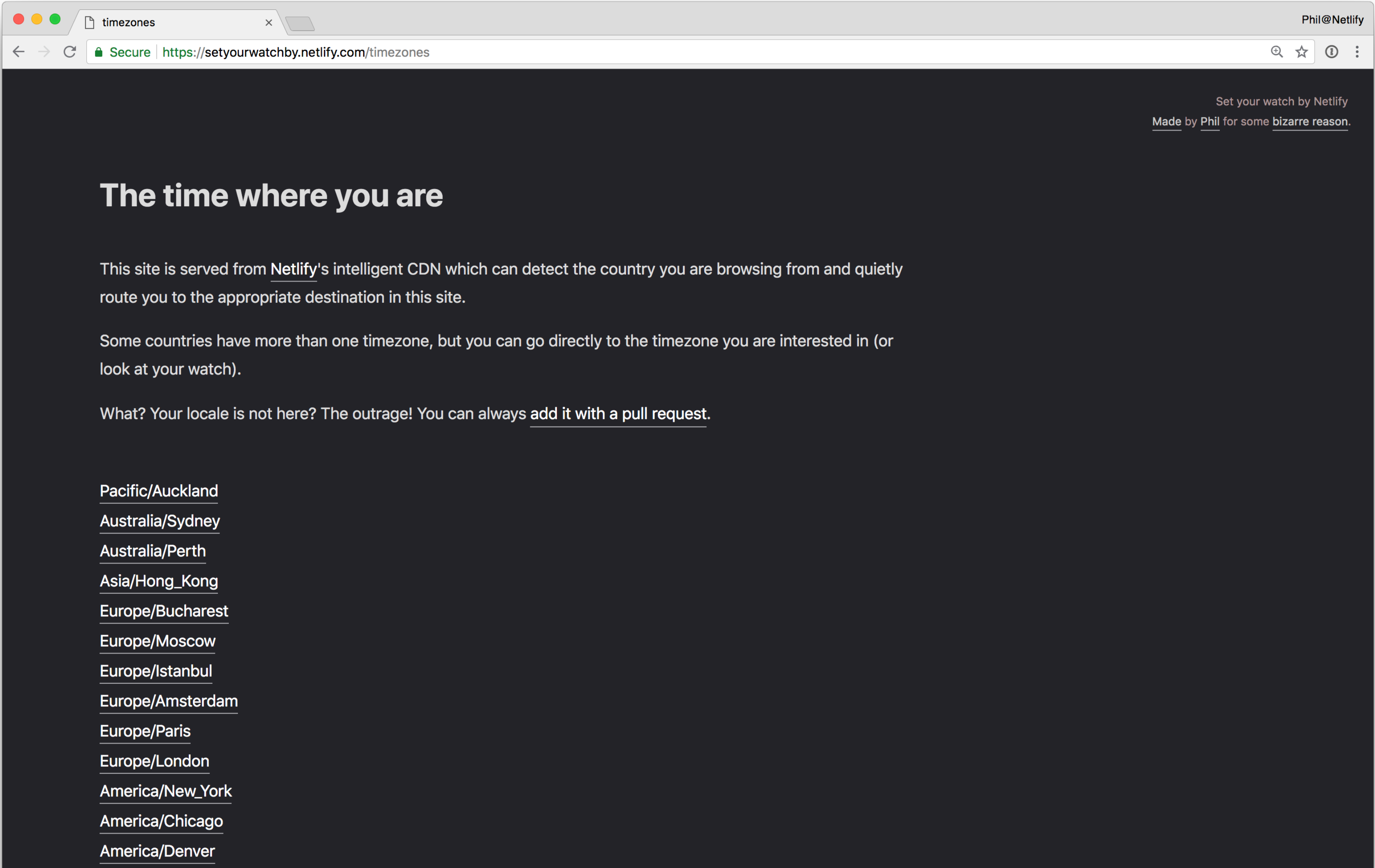
12 Retweets 41 Likes



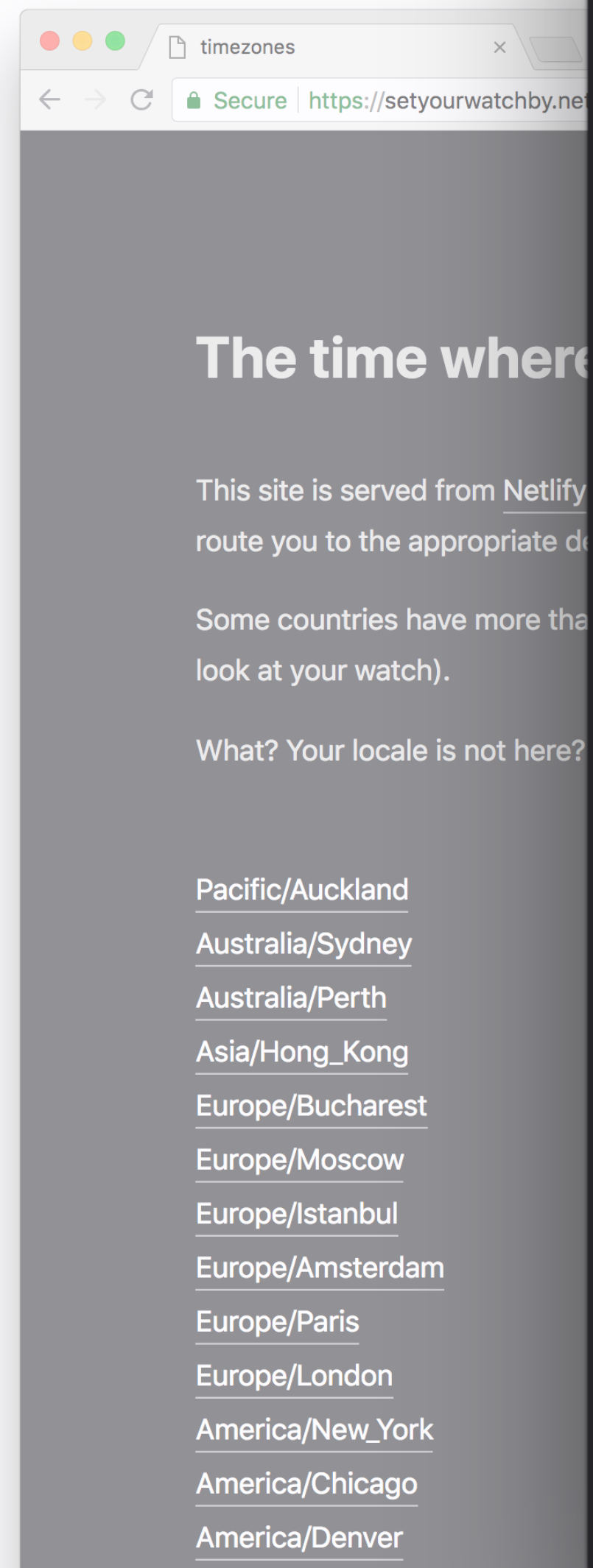
SETYOURWATCHBY.NETLIFY.COM



SETYOURWATCHBY.NETLIFY.COM



SETYOURWATCH



Pacific/Auckland

Australia/Sydney

Australia/Perth

Asia/Hong_Kong

Europe/Bucharest

Europe/Moscow

Europe/Istanbul

Europe/Amsterdam

Europe/Paris

Europe/London

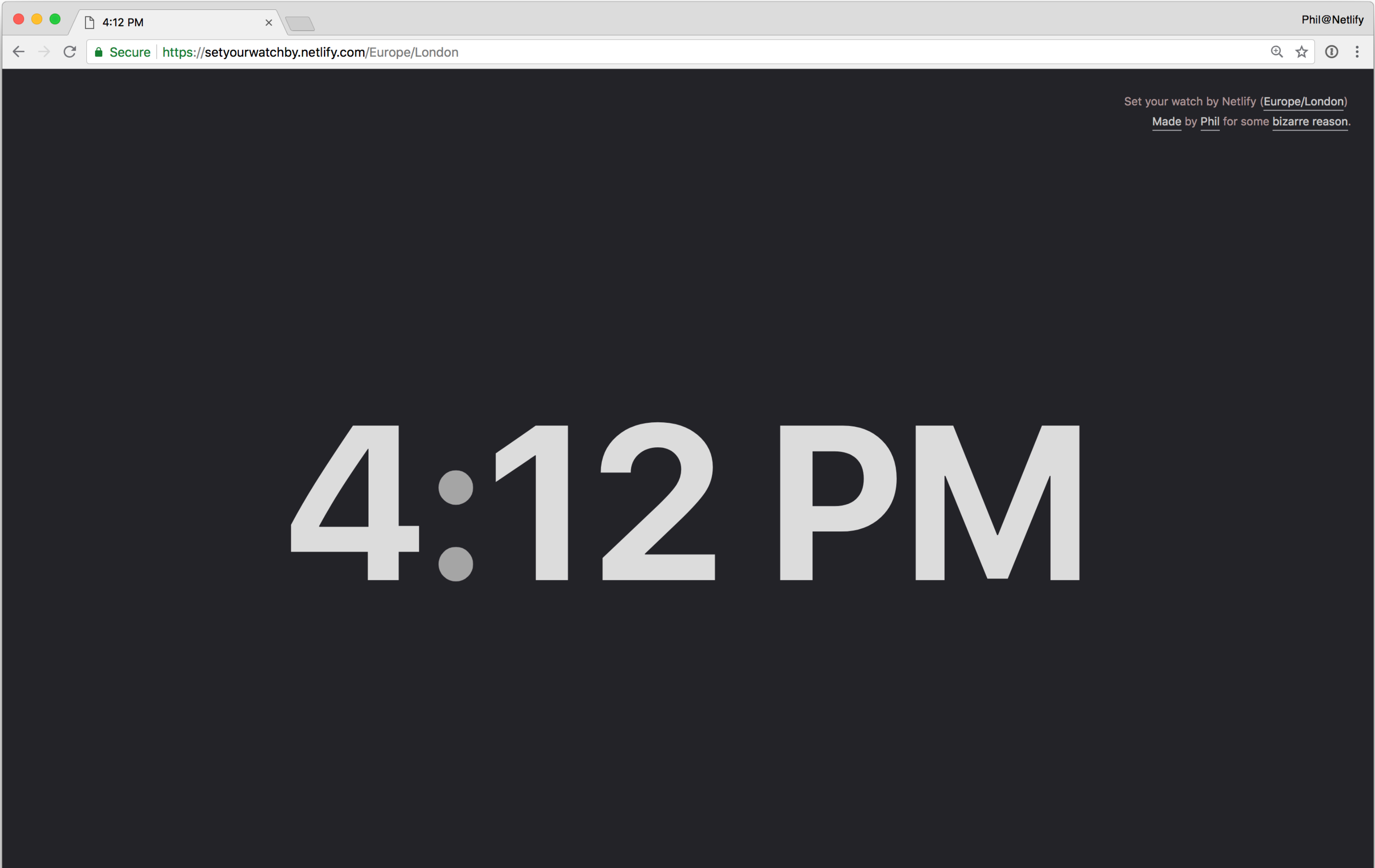
America/New_York

America/Chicago

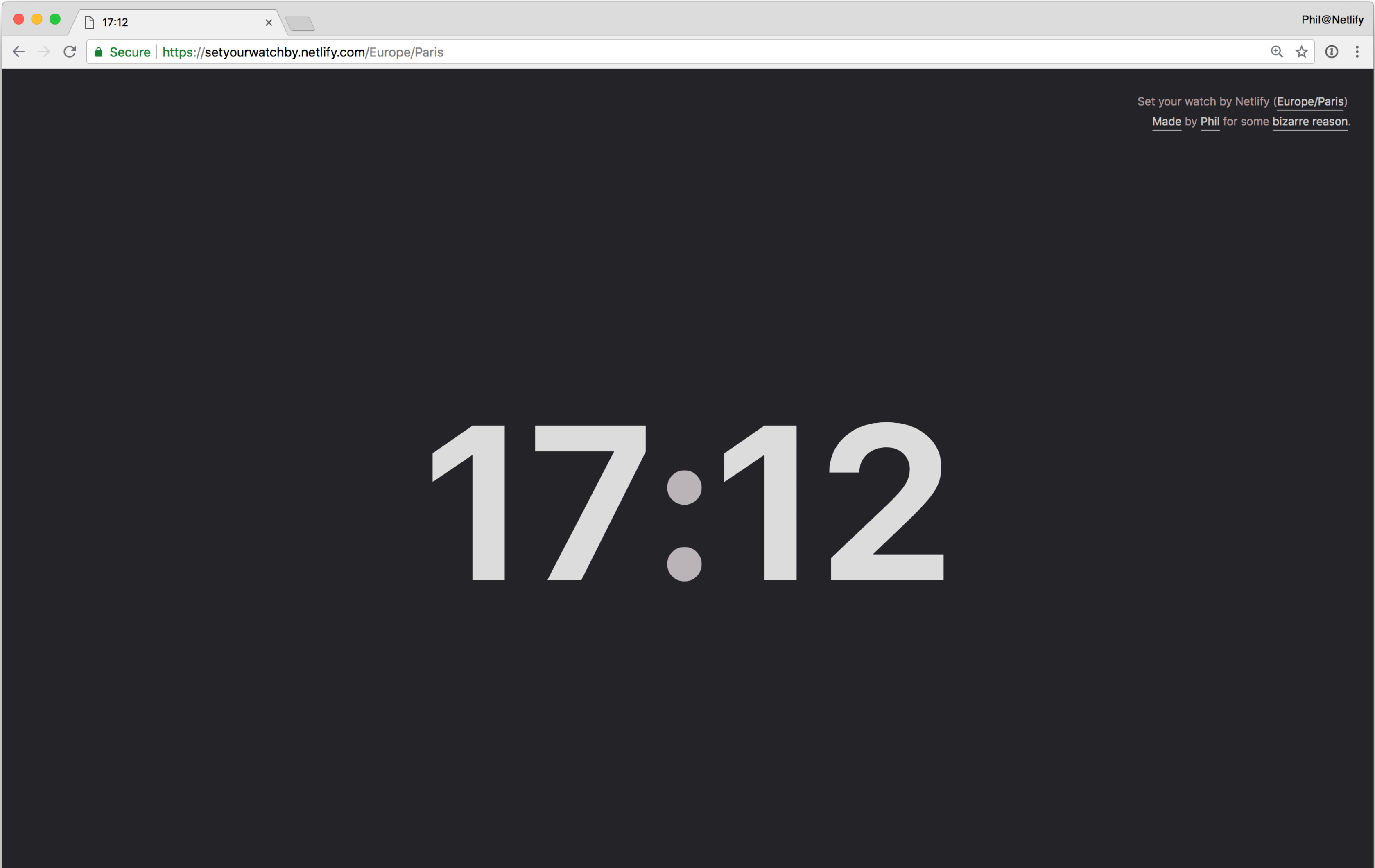
America/Denver

America/Los Angeles

SETYOURWATCHBY.NETLIFY.COM



SETYOURWATCHBY.NETLIFY.COM





WEBTASK.IO

Webtask Editor

Phil@Netlify

Secure | https://webtask.io/make

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 Documentation

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Files

Scheduler

Refresh | Remove schedule

☒ Write an advanced schedule

*/1

*

*

*

*

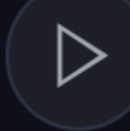
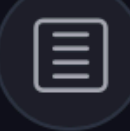

Minute Hour Day Month Weekday

Update schedule

Stats

Run count: 57540 Error count: 10

Netlify-HTML-time-scheduler >



1

2

3

4

5

6

7

8

9

10

var request = require('request');

module.exports = function(cb) {

request({

method: 'POST',

url: 'https://api.netlify.com/build_hooks/5b51210902ed836d8a7073c4'

});


cb(null, { msg: 'done '});


}

WEBTASK.IO

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

Refresh | Remove schedule

☒ W

Minut

Update schedule

Stats

Run count: **120197** Error count: **12**

`(request');`

`tion(cb) {`

`netlify.com/build_hooks/5b51210902ed836d8a7073c4`

`ne '});`

EXERCISE



make form submissions trigger a rebuild

CONCEPT



**I ABSOLUTELY POSITIVELY
NEED A LITTLE LOGIC
ON A SERVER**

A stylized illustration of a superhero figure in a dark suit with a red cape, running through a rocky, brown landscape. The superhero is in a dynamic pose, leaning forward with arms outstretched. The background features large, rounded rock formations in shades of brown and tan, with small black specks scattered throughout. The overall style is flat and graphic.

SERVERLESS TO THE RESCUE

FUNCTIONS AS A SERVICE

**NO AWS CONFIGURATION
INSTANT PROVISIONING
API GATWEAY & URLS
IMMUTABLE VERSIONS
SITE SYNCHRONICITY**

NETLIFY LAMBDA

 findthat.at/lambda

FUNCTIONS PLAYGROUND

 findthat.at/playground

EXAMPLE

add a delete button

EXERCISE

add a delete button and trigger a redeploy

(FOLDER 5)

ADD NETLIFY-LAMBDA AND REQUEST

USE NETLIFY LAMBDA IN BUILD STEP

HELLO WORLD

EXPOSE THE SUBMISSION ID IN PROPOSAL DATA

ADD DELETE BUTTON TO THE PROPOSAL LISTINGS

FUNCTIONS CAN BE TRIGGERED BY EVENTS

👉 findthat.at/eventdriven

CONCEPT



REDIRECTS API (AT THE EDGE)

👉 findthat.at/redirects

REDIRECTS
ANY HTTP RESPONSE CODE
PROXYING
CUSTOM 404s
COUNTRY
LANGUAGE
ROLE

THANKS
QUESTIONS?

@PHILHAWKSWORTH