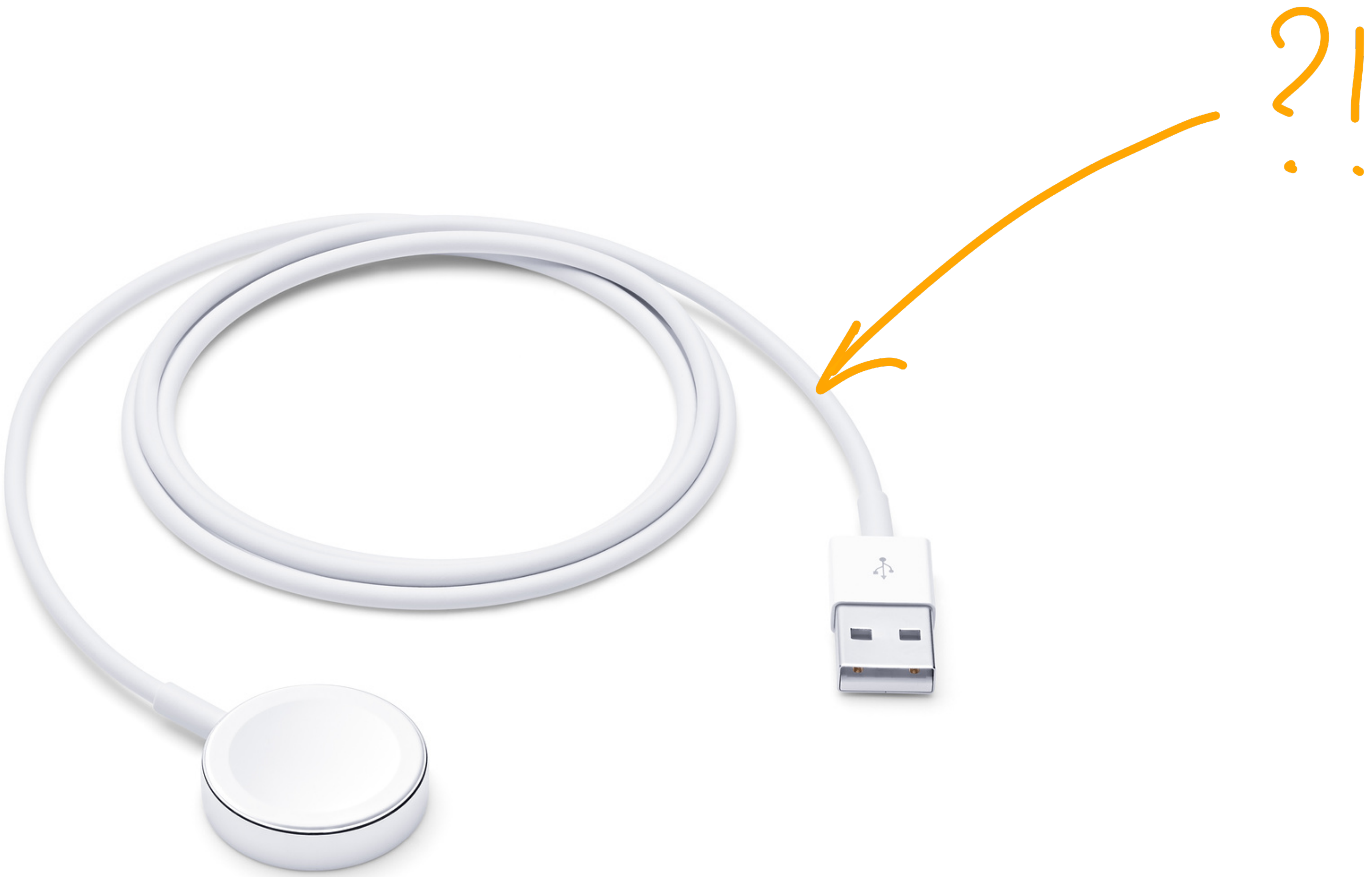
ARE YOU BEING SERVERED?

EXPLORING A SERVERLESS WEB

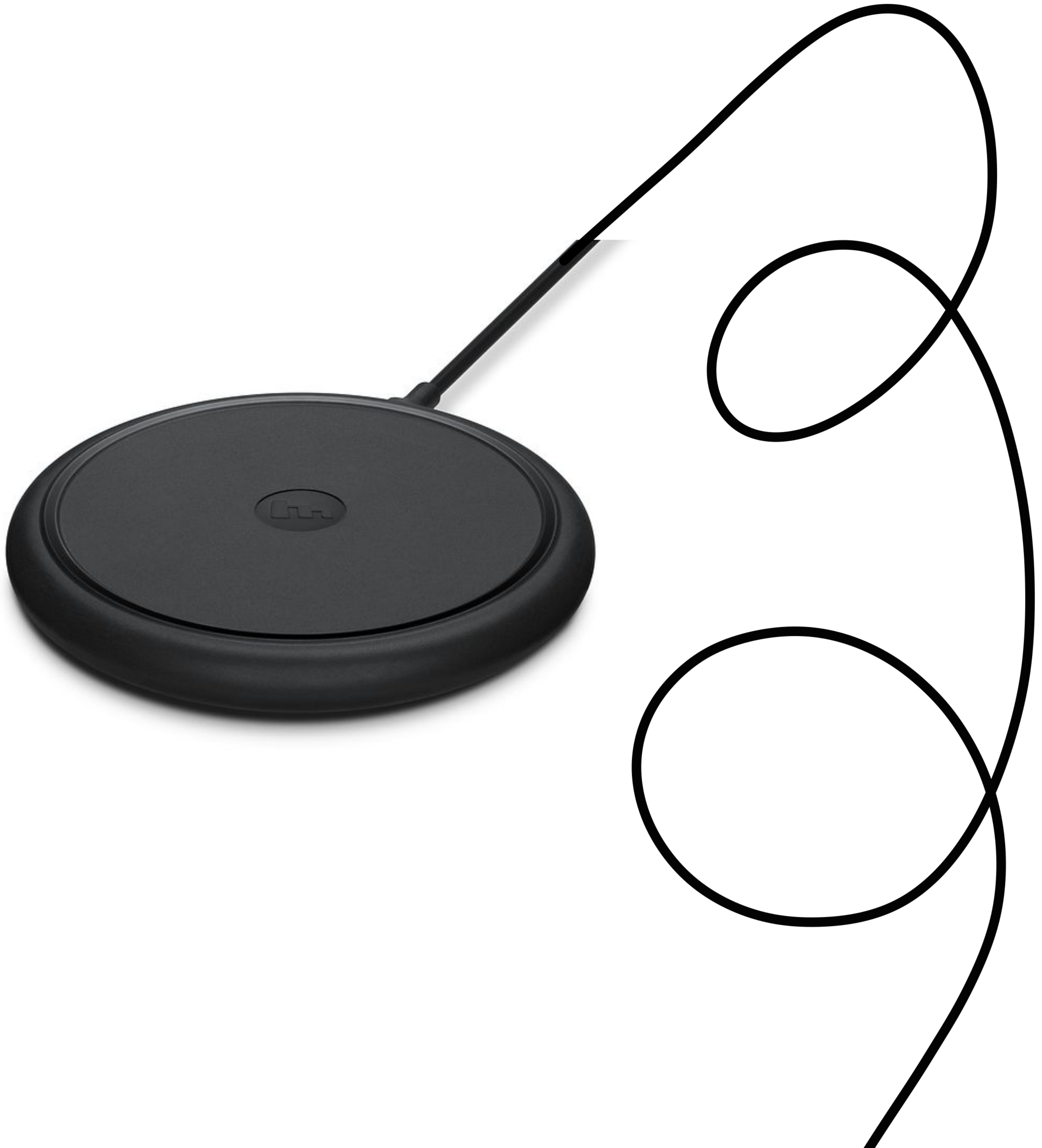
PHIL HAWKSWORTH

5:10
Timer
29:58
Reset
Pause

ANKER



ANKER



WIRELESS

SERVERLESS

CAN WE REALLY TAKE SERVERS OUT OF THE EQUATION?

serverless ⚡ *jamstack*

FOCUSSING ON THE THINGS YOU CARE ABOUT

FOCUSSING ON THE THINGS YOU *have to* CARE ABOUT

liberated

TO FOCUS ON WHAT MATTERS

JUST WRITE CODE

CHRIS NORING, 11:47AM

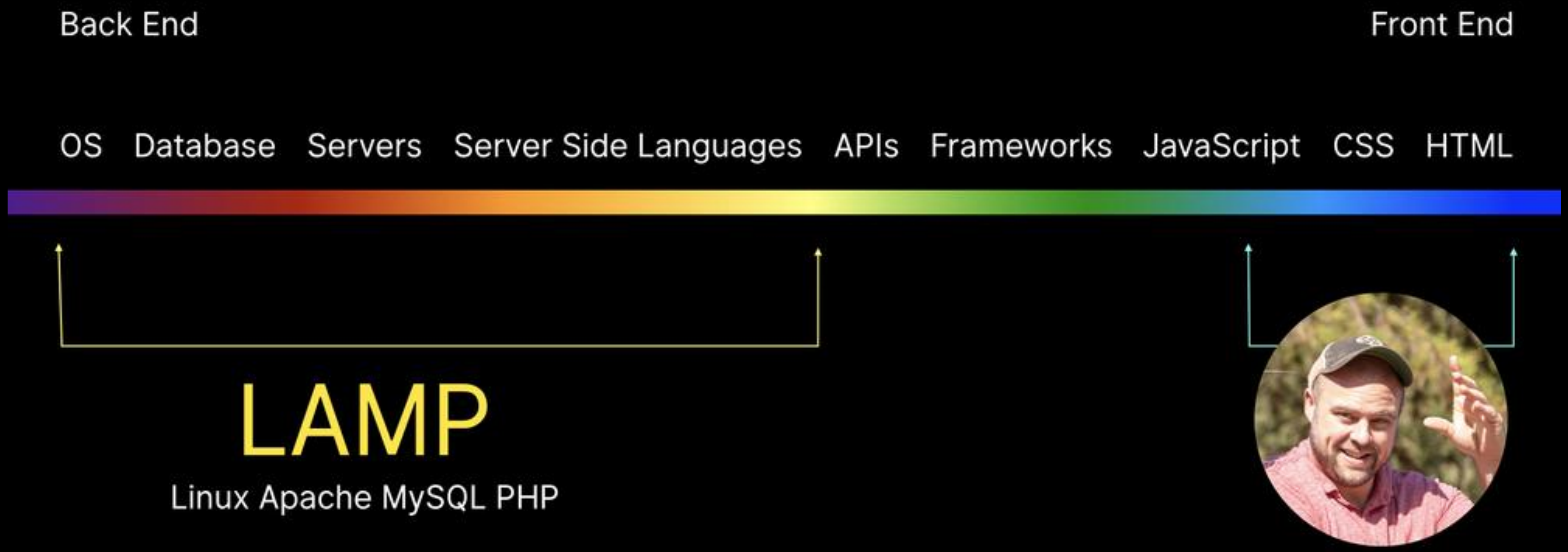
the problem with

DOING BIG PROJECTS

CONSTRAINTS AND COMPLEXITY AND INFRASTRUCTURE

oh my!

WHERE TO FOCUS OUR EFFORTS?



Back End

Front End

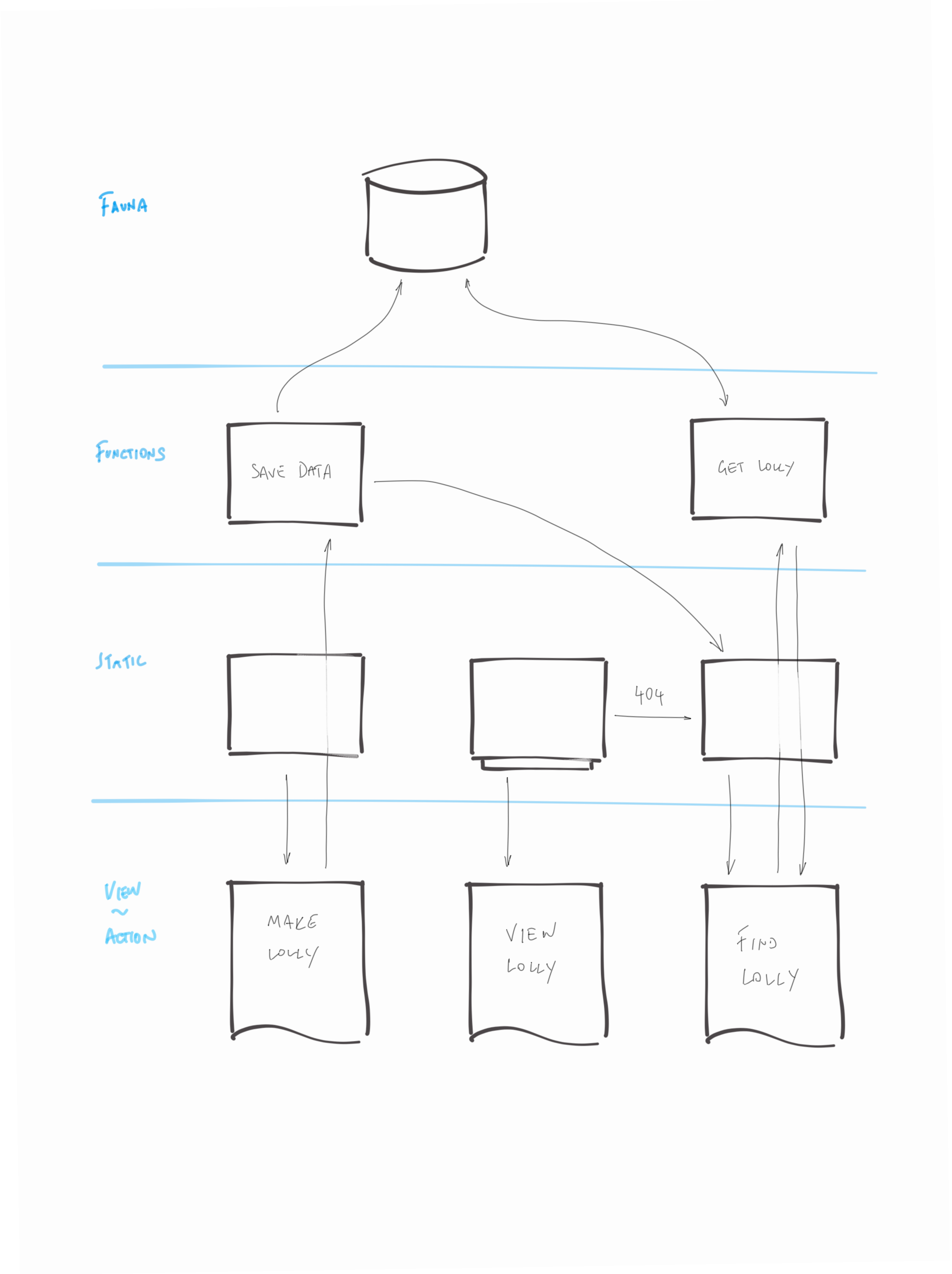
OS Database Servers Server Side Languages APIs Frameworks JavaScript CSS HTML

LAMP

Linux Apache MySQL PHP

http://full-stack.netlify.com

LINES AND BOXES



@ PHIL HAWKSWORTH

HE / HIM

DEVELOPER EXPERIENCE

NETLIFY

O'REILLY®

Compliments of netlify

Modern Web Development on the JAMstack

Mathias Biilmann & Phil Hawksworth

FINDTHAT.AT/JAMSTACK-BOOK

FINDTHAT.AT/SOMETHINGSOMETHING

FINDTHAT.AT/SERVERED

FINDTHAT.AT

ARE YOU BEING SERVERED?

EXPLORING A SERVERLESS WEB

PHIL HAWKSWORTH

NO PARK
Are You Being Served?

BBC
Are You Being Served?
GRACE BROS.
The Complete First Series
Including pilot episode
DVD VIDEO
PG

EMI

NAT COHEN presents

"Are You Being Served?"

By JEREMY LLOYD
and DAVID CROFT

Starring

MOLLIE SUGDEN \ JOHN INMAN

FRANK THORNTON

TREVOR BANNISTER

Also Starring
WENDY RICHARD · ARTHUR BROUGH
NICHOLAS SMITH · HAROLD BENNETT
and ARTHUR ENGLISH

Produced by ANDREW MITCHELL
Directed by BOB KELLETT

Technicolor® · Distributed by EMI Films Limited

[illegible]

ON BEHALF OF THE PEOPLE OF BRITAIN, I APOLOGISE

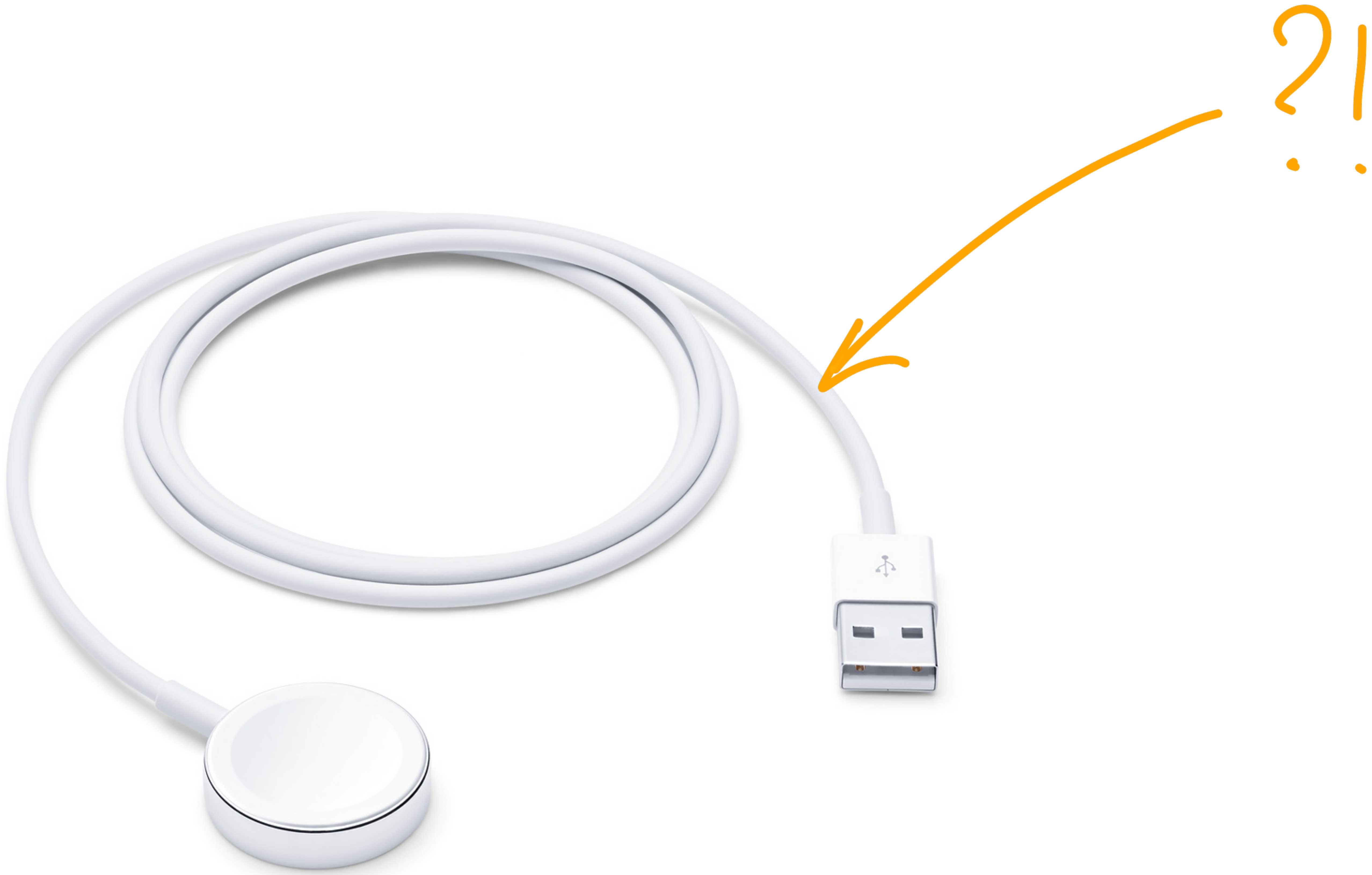
ARE YOU BEING SERVERED?

EXPLORING A SERVERLESS WEB

PHIL HAWKSWORTH

FUNCTIONS AS A SERVICE

SERVING WEBSITES WITHOUT WEBSERVERS



jamstack

JAVASCRIPT / API / MARKUP

STACKS FOR DAYZ

AN / LAMP / MAMP / XAMP / ROR / WISA / MEA

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

jamstack

A modern architecture —

Create fast and secure sites and dynamic apps with JavaScript, APIs, and pre-rendered Markup, served without web servers

BAKE, DON’T FRY

– Aaron Swartz

http://www.aaronsw.com/weblog/000404

> I CARE ABOUT NOT HAVING TO MAINTAIN CRANKY AOLSERVER, POSTGRES AND ORACLE INSTALLS

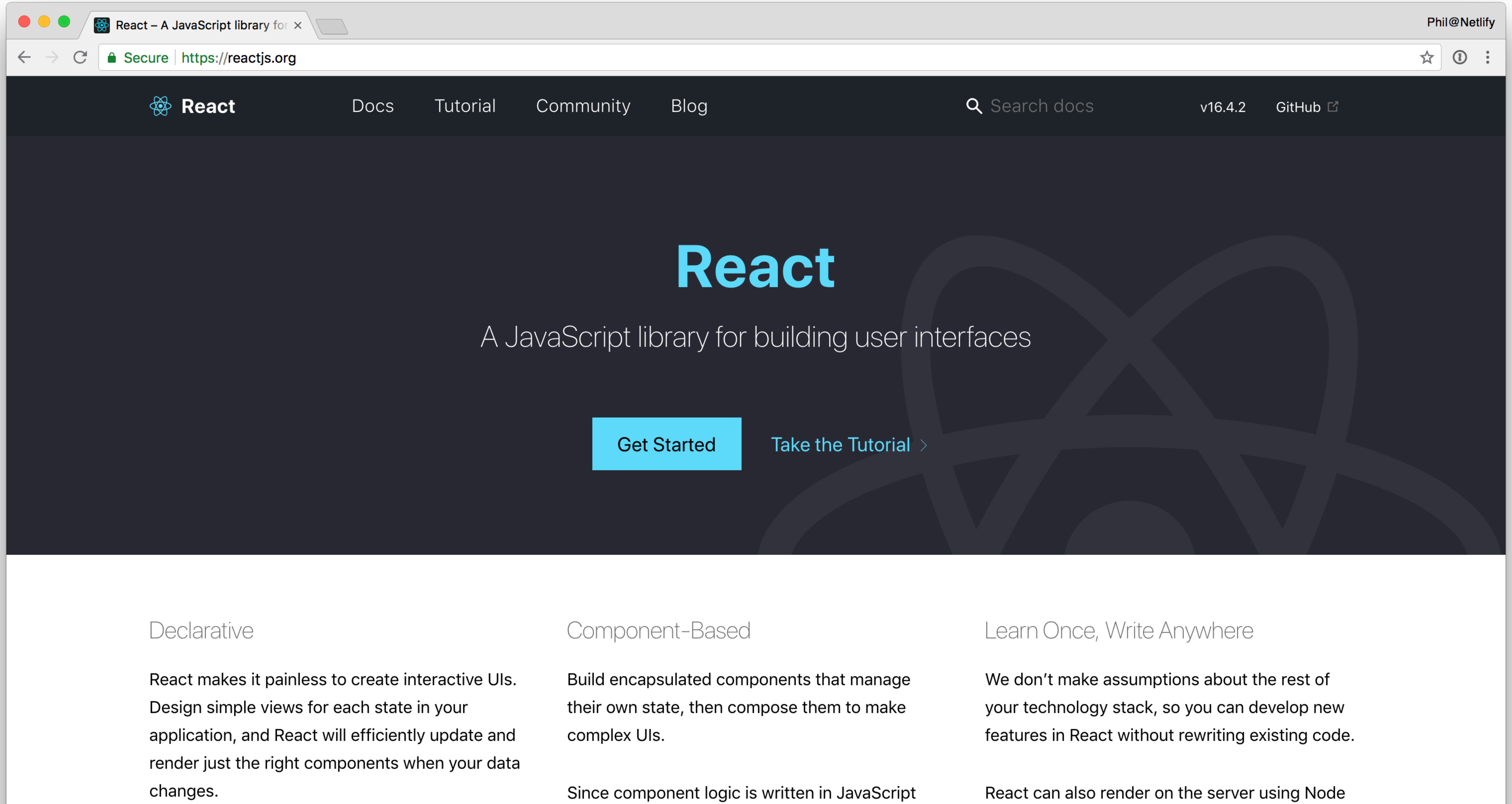
AARON SWARTZ, 2002

http://www.aaronsw.com/weblog/000404

TOOLS AND ECOSYSTEM

SO... WHAT CAN A STATIC SITE EVEN BE?

REACTJS.ORG



React

A JavaScript library for building user interfaces

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.

Component-Based

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

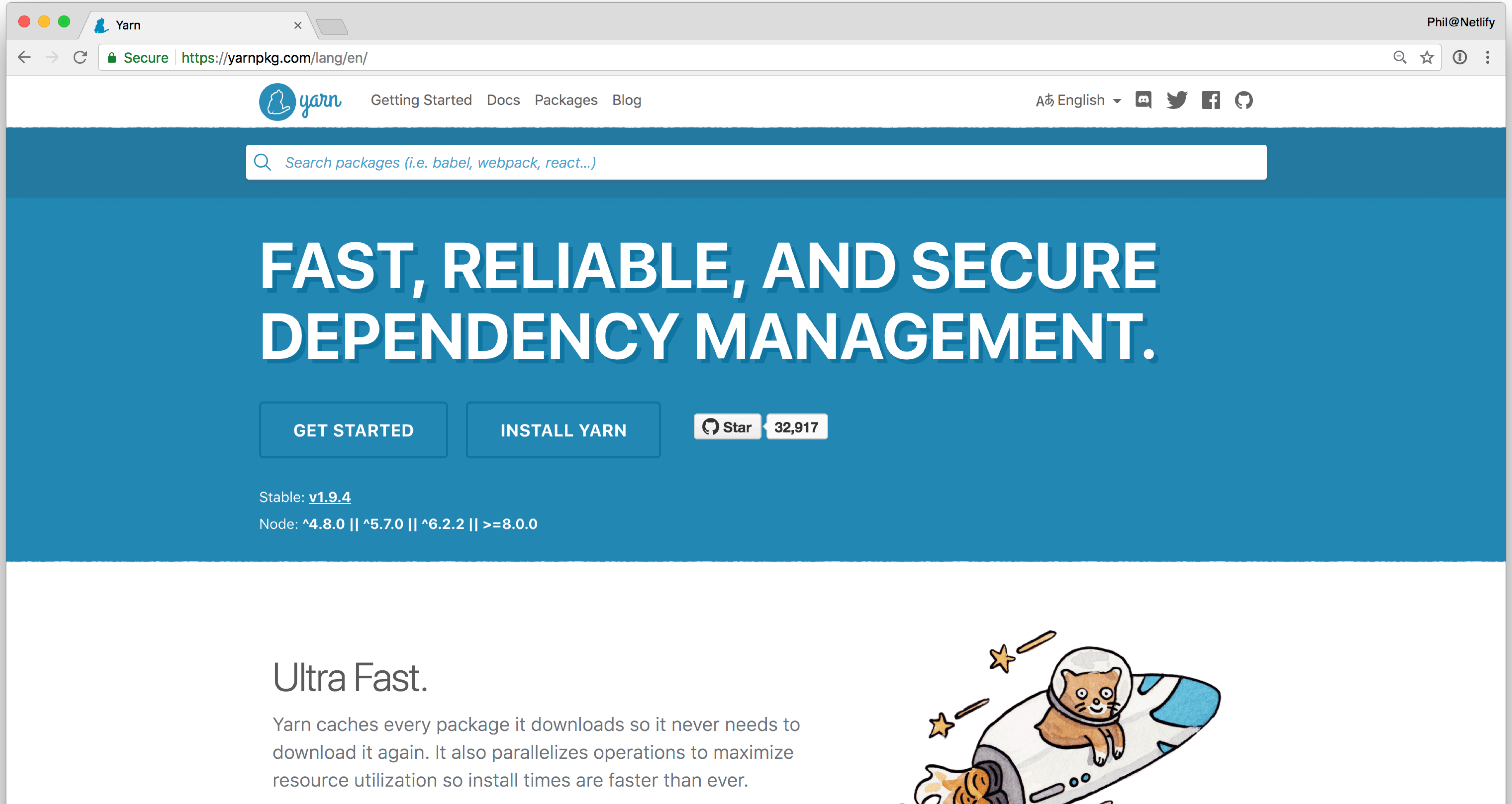
Since component logic is written in JavaScript

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

YARNPKG.COM



FAST, RELIABLE, AND SECURE DEPENDENCY MANAGEMENT.

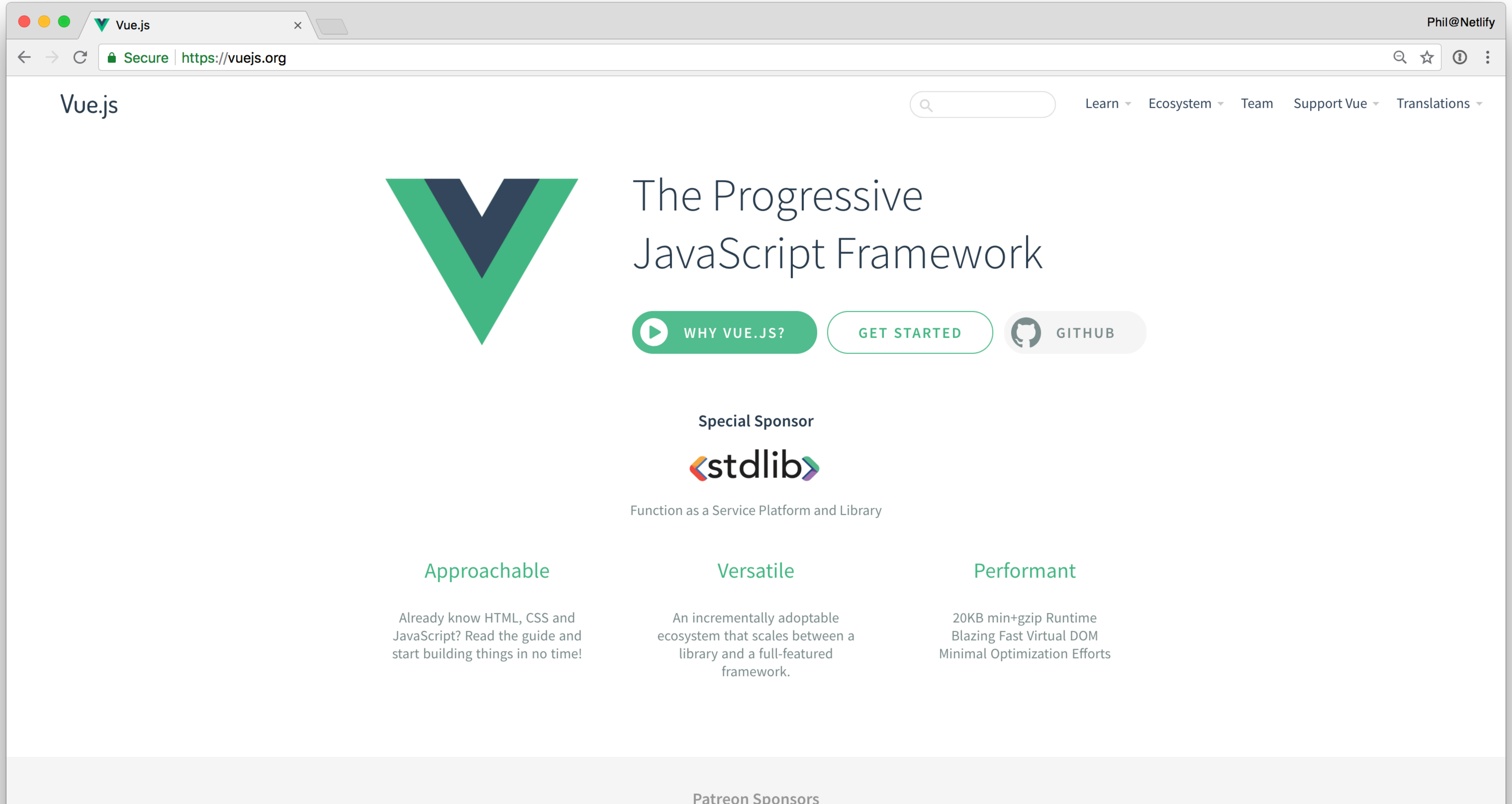
Stable: v1.9.4

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.

VUEJS.ORG



The Progressive JavaScript Framework

Special Sponsor

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

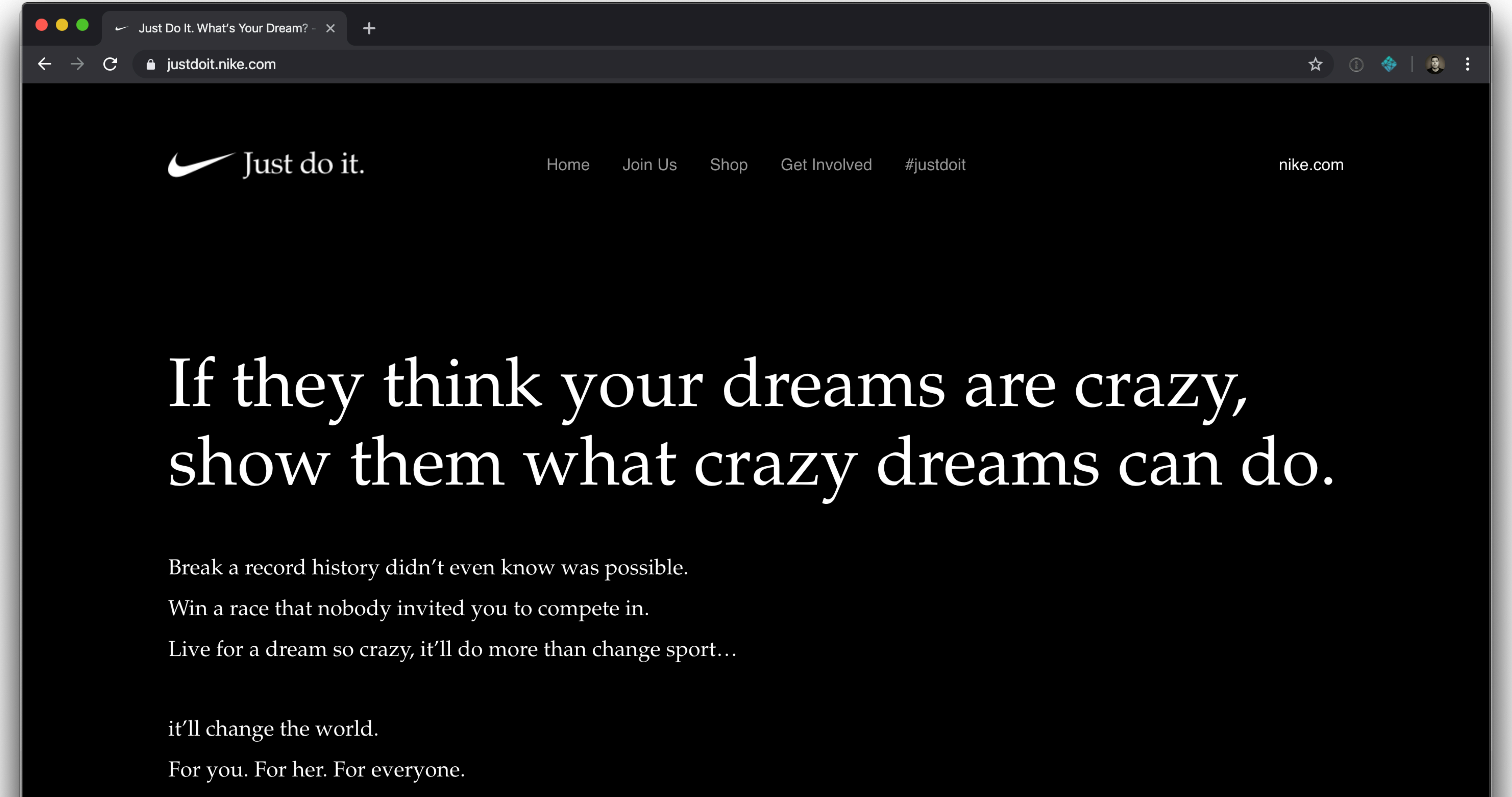
An incrementally adoptable ecosystem that scales between a library and a full-featured framework.

Performant

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

Patreon Sponsors

JUSTDOIT.NIKE.COM



If they think your dreams are crazy, show them what crazy dreams can do.

Break a record history didn't even know was possible.

Win a race that nobody invited you to compete in.

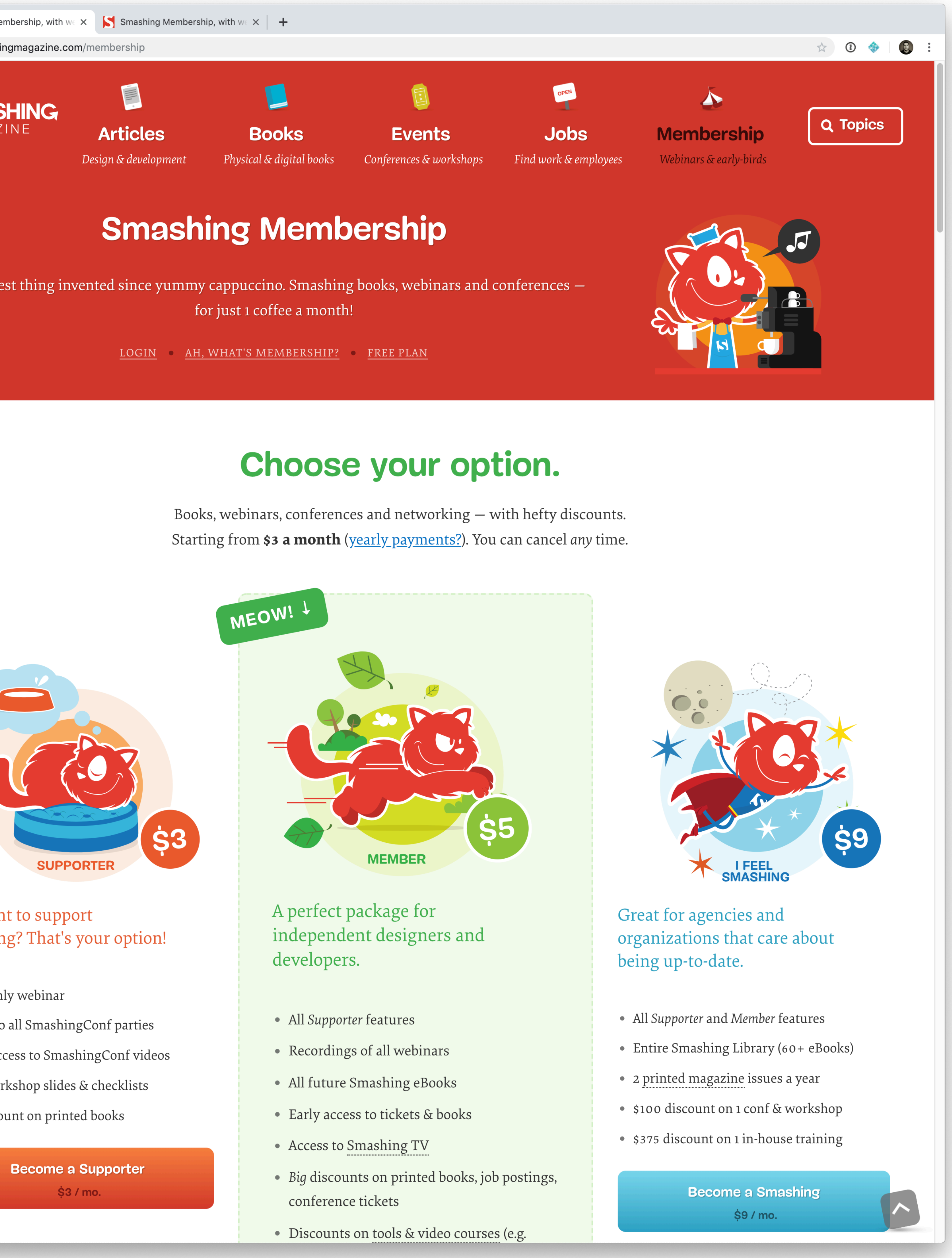
Live for a dream so crazy, it'll do more than change sport…

it'll change the world.

For you. For her. For everyone.

A LITTLE MORE "DYNAMIC"

SMASHINGMAGAZINE.COM



Smashing Membership, with w… ✕ | Smashing Membership, with w… ✕ | +

…ingmagazine.com/membership

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MEOW! ↓

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- …o all SmashingConf parties
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- …rkshop slides & checklists
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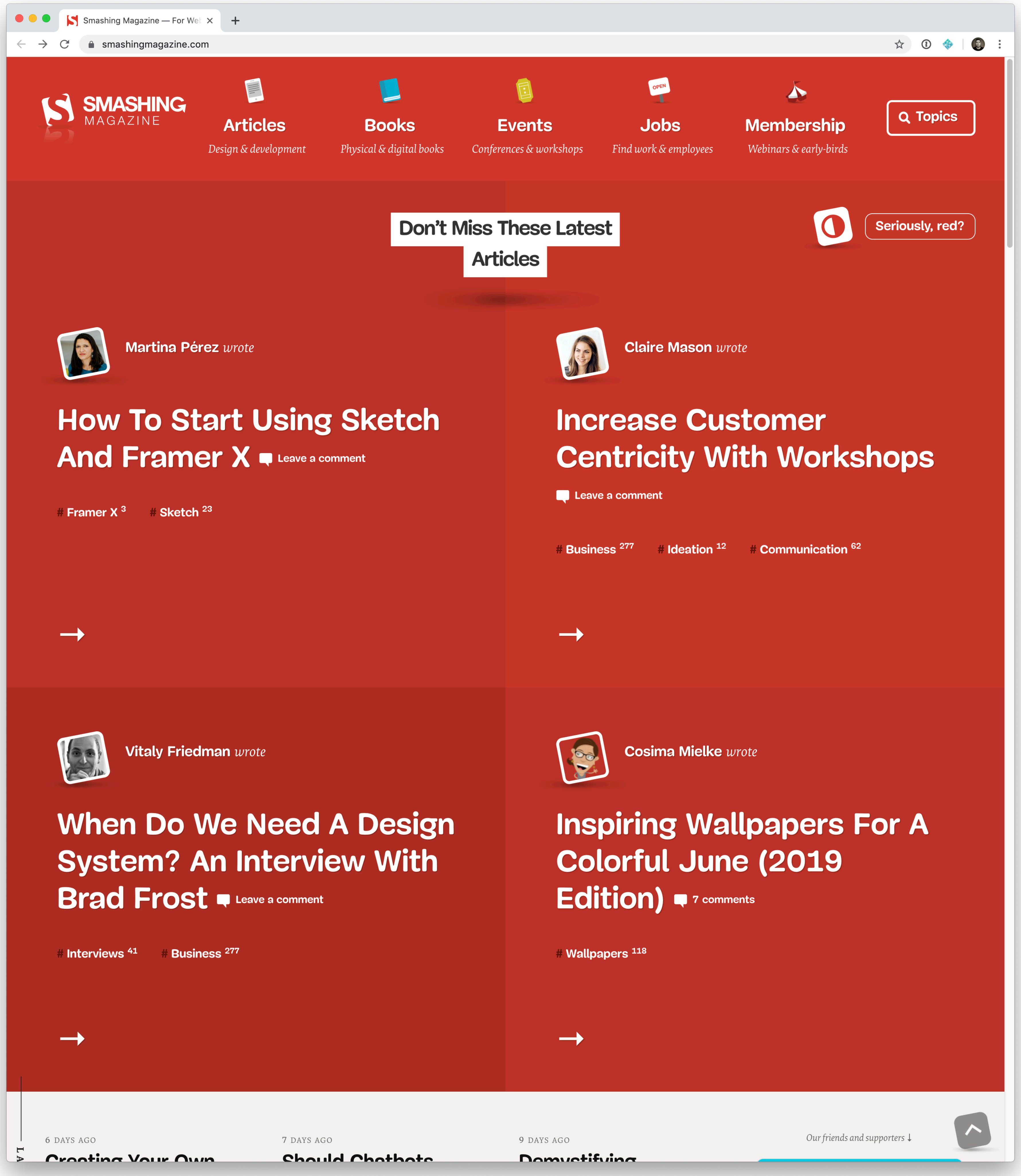

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Don't Miss These Latest Articles

Seriously, red?

Martina Pérez *wrote*

How To Start Using Sketch And Framer X

Leave a comment

Framer X 3 # Sketch 23

→

Claire Mason *wrote*

Increase Customer Centricity With Workshops

Leave a comment

Business 277 # Ideation 12 # Communication 62

→

Vitaly Friedman *wrote*

When Do We Need A Design System? An Interview With Brad Frost

Leave a comment

Interviews 41 # Business 277

→

Cosima Mielke *wrote*

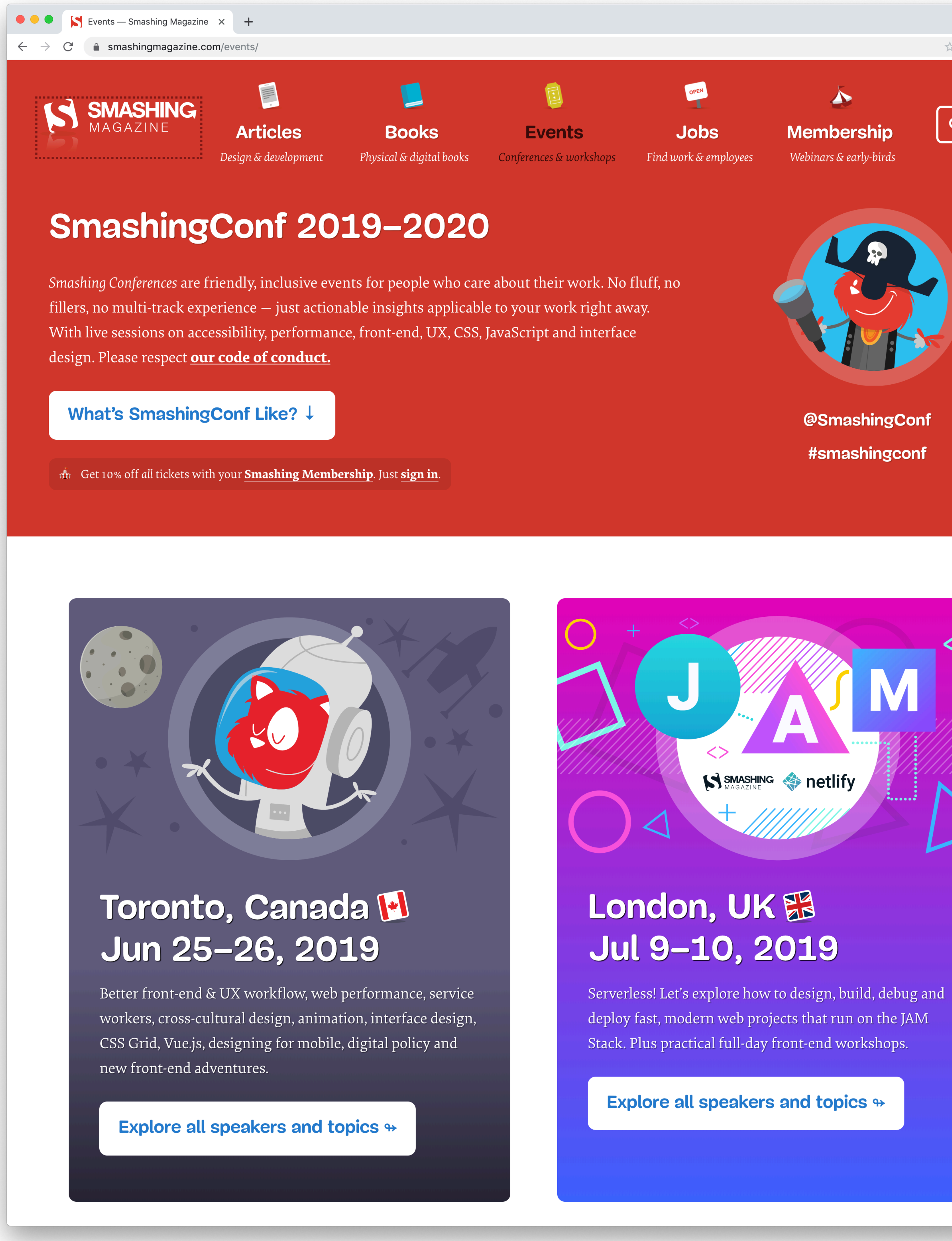
Inspiring Wallpapers For A Colorful June (2019 Edition)

7 comments

Wallpapers 118

→

6 DAYS AGO Creating Your Own | 7 DAYS AGO Should Chatbots | 9 DAYS AGO Demystifying | *Our friends and supporters* ↓



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SmashingConf 2019–2020

Smashing Conferences are friendly, inclusive events for people who care about their work. No fluff, no fillers, no multi-track experience — just actionable insights applicable to your work right away. With live sessions on accessibility, performance, front-end, UX, CSS, JavaScript and interface design. Please respect **our code of conduct.**

What's SmashingConf Like? ↓

@SmashingConf

#smashingconf

Get 10% off *all* tickets with your **Smashing Membership**. Just **sign in**.

Toronto, Canada 🇨🇦 Jun 25–26, 2019

Better front-end & UX workflow, web performance, service workers, cross-cultural design, animation, interface design, CSS Grid, Vue.js, designing for mobile, digital policy and new front-end adventures.

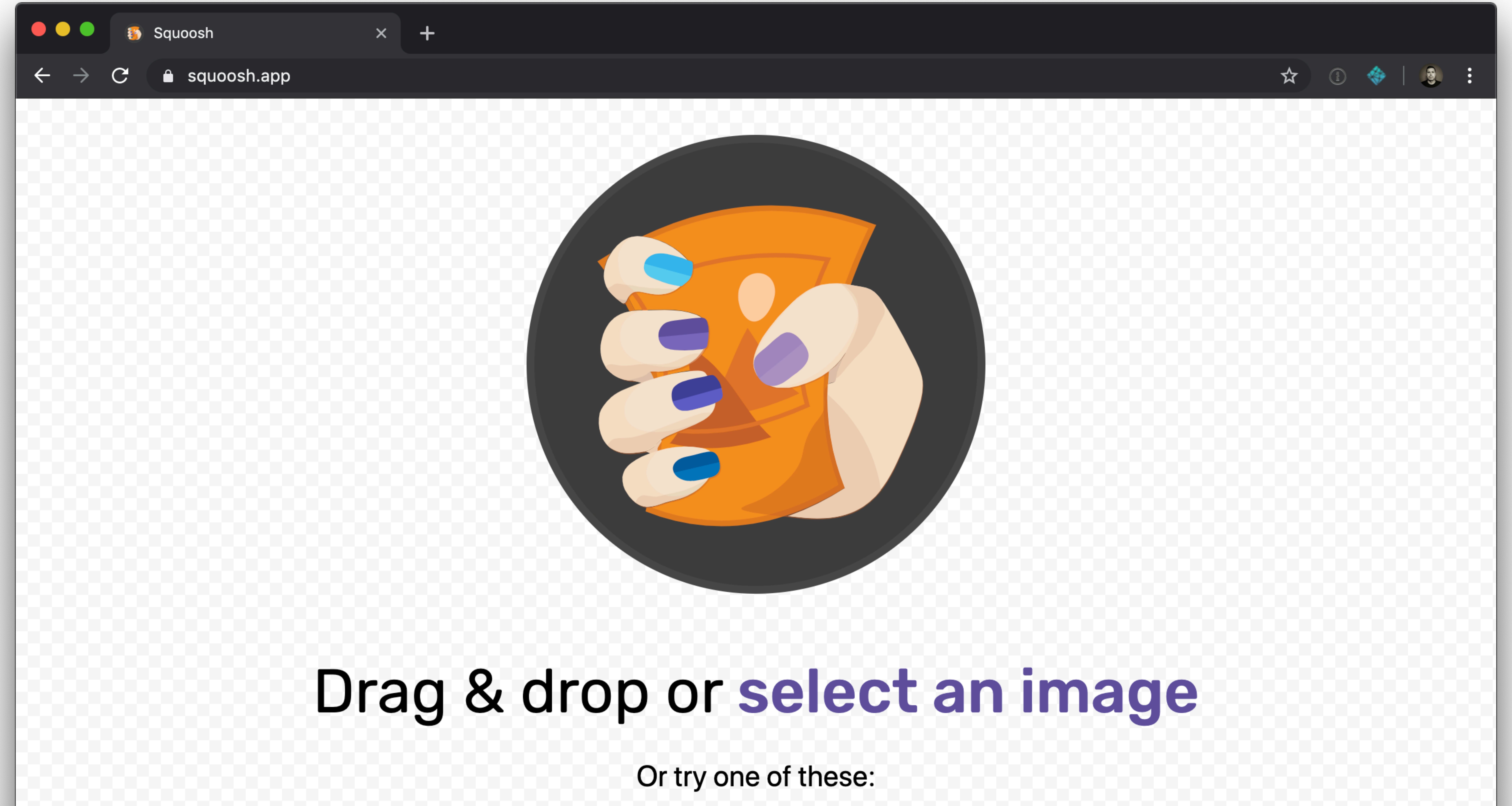
Explore all speakers and topics ↠

London, UK 🇬🇧 Jul 9–10, 2019

Serverless! Let's explore how to design, build, debug and deploy fast, modern web projects that run on the JAM Stack. Plus practical full-day front-end workshops.

Explore all speakers and topics ↠

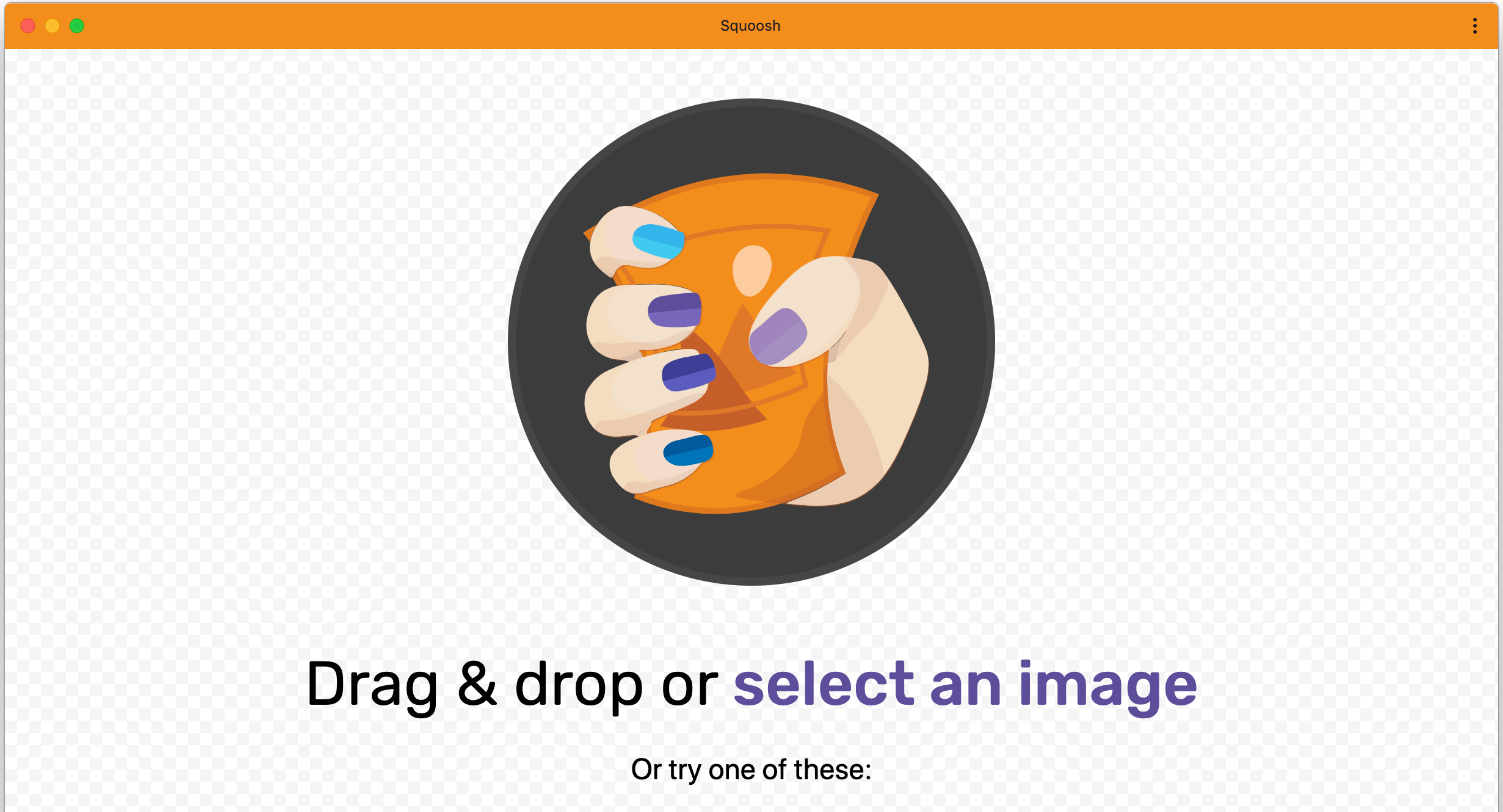
SQUOOSH.APP



Drag & drop or select an image

Or try one of these:

SQUOOSH.APP



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Or try one of these:

hawksworx.com
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blog
speaking
about
search

HAWKSWORX

/hɔːkswəːks/

The blog, playground, and generally a home on the web for Phil Hawksworth, a web nerd, amateur comedian, and cat botherer.

The source code of this site is available on GitHub and is hosted and updated by Netlify automatically after each code commit

Other than where specified, the content on this site is published under a Creative Commons Attribution 3.0 licence.

Subscribe to a feed of blog posts on this site.

You can usually find me on Twitter. And you can sometimes find me at web development conferences, where I might be talking about development techniques. I blog here less frequently than I'd like, but manage it a little more often on the Netlify blog.

Wherever you find me, online or in the real world, please do come and say a friendly hello.

Recently on the blog

August 19th 2019

Power up Gatsby sites with A/B testing on Netlify

#jamstack , #netlify , #gatsby

If you host your Gatsby site with Netlify, you can create A/B or multi-variant tests without the need for client-side UI manipulation or other JavaScript intervention. This post and demo video explain how.

Edit settings

Build hooks

Build hooks give you a unique URL you can use to trigger a build.

Twitter activity trigger:	https://api.netlify.com/build_hooks/58d50555d6865d3a3d5a1f19
Comment approved:	https://api.netlify.com/build_hooks/5a9178c6df99537d12e5d057
Alexa voice command:	https://api.netlify.com/build_hooks/5b75f84e82d3f10467d27f41

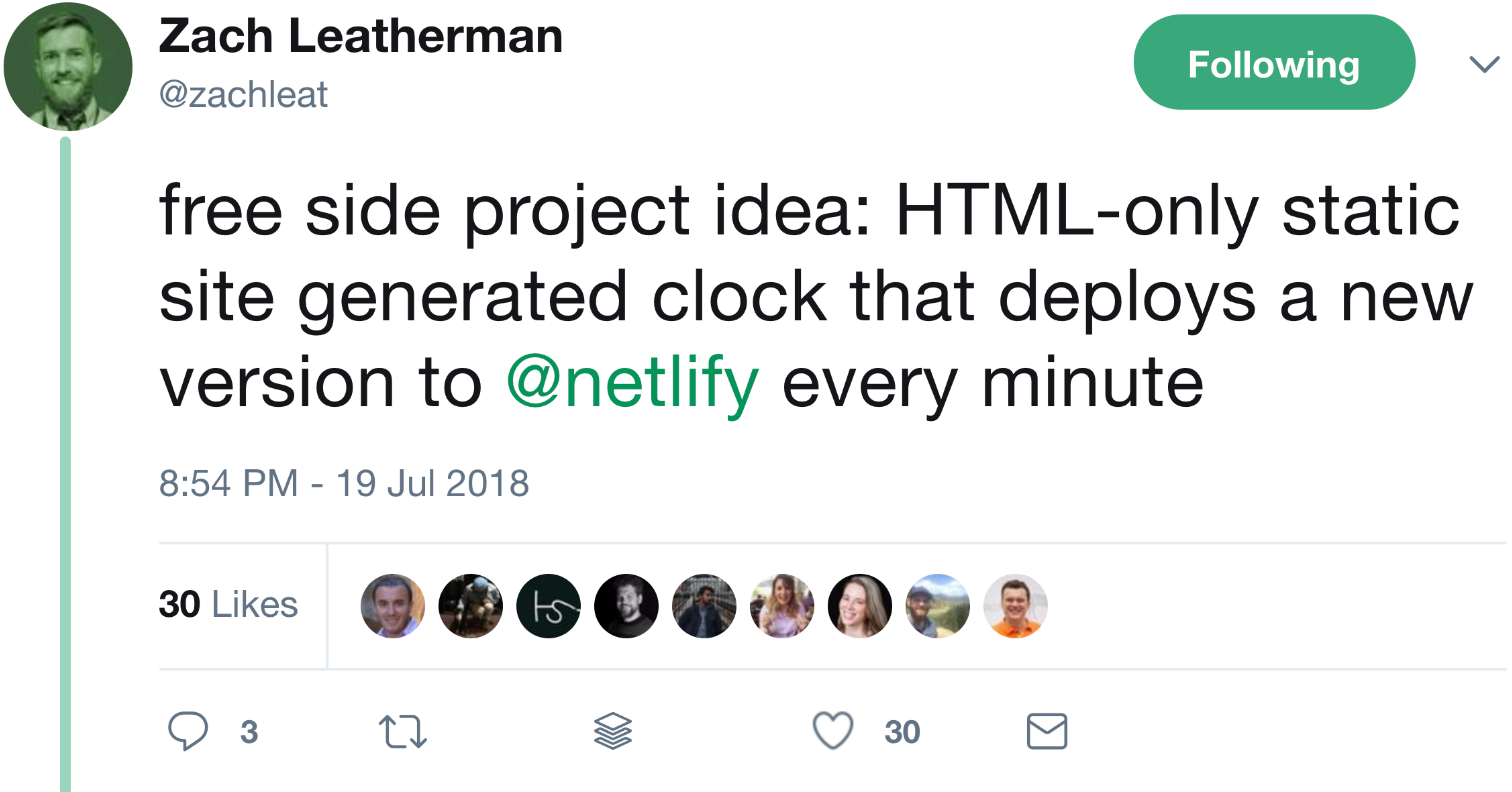
Learn more about build hooks in the docs ↗

Build image selection

PHILIP GOT COCKY

SOME PEOPLE ON THE INTERNET NOTICED

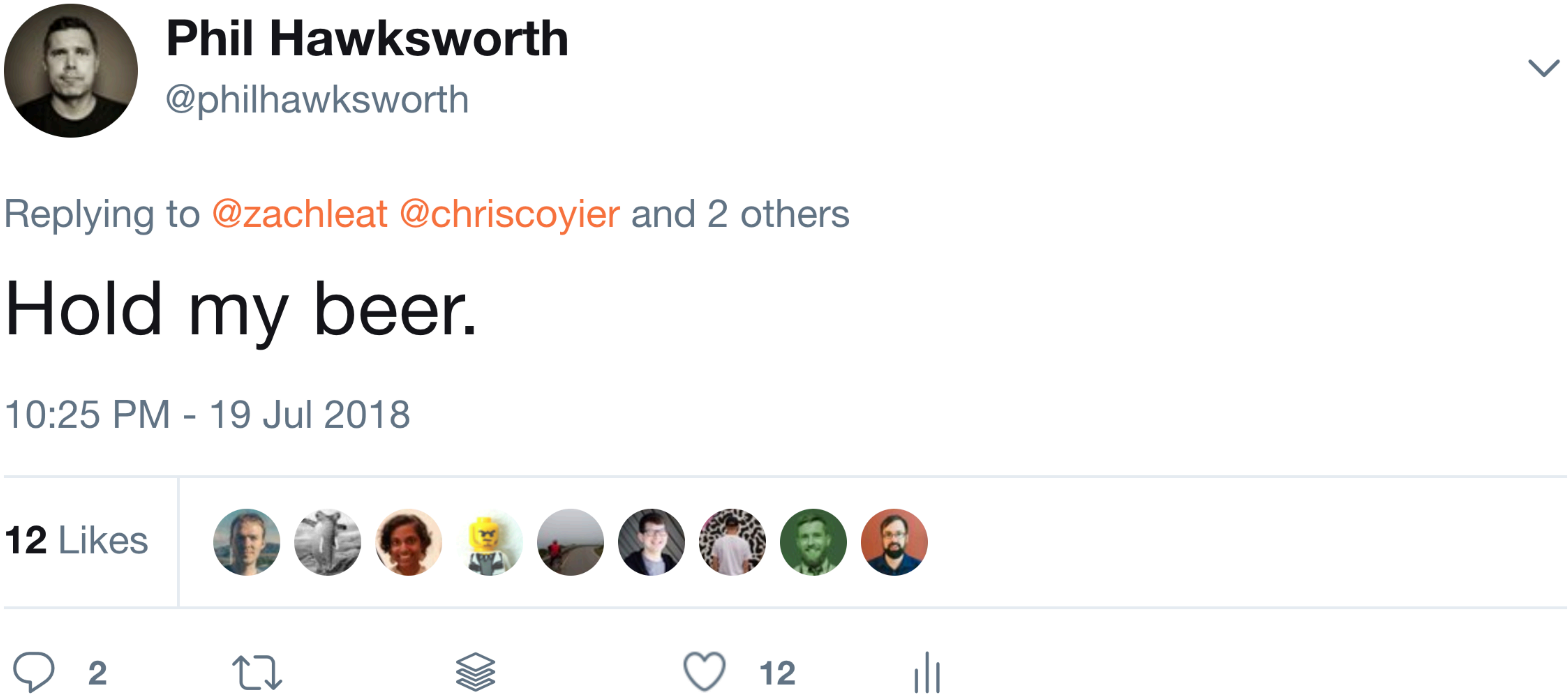
😳



Zach Leatherman
@zachleat

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



Phil Hawksworth
@philhawksworth

Replying to @zachleat @chriscoyier and 2 others

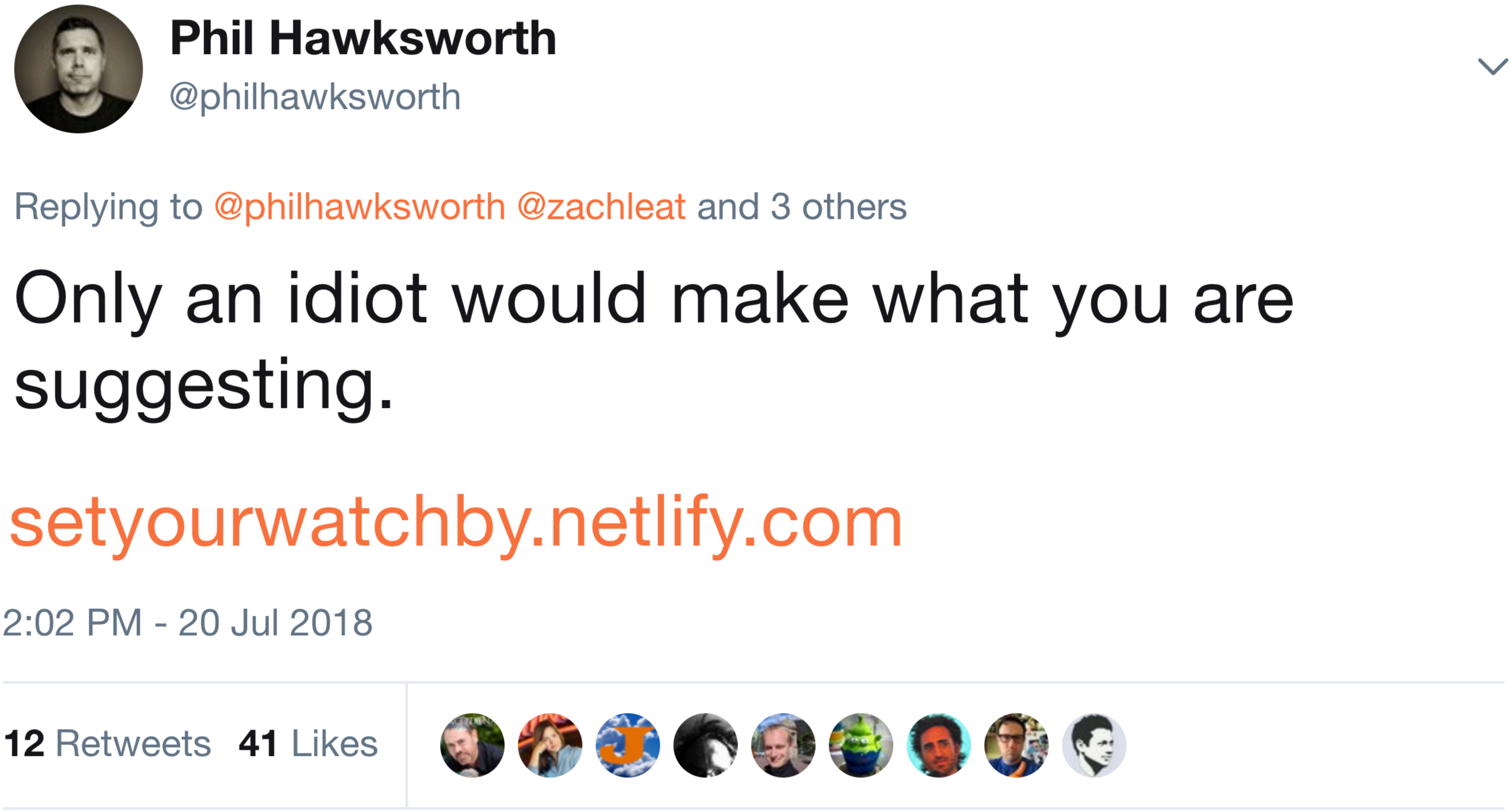
Hold my beer.

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.

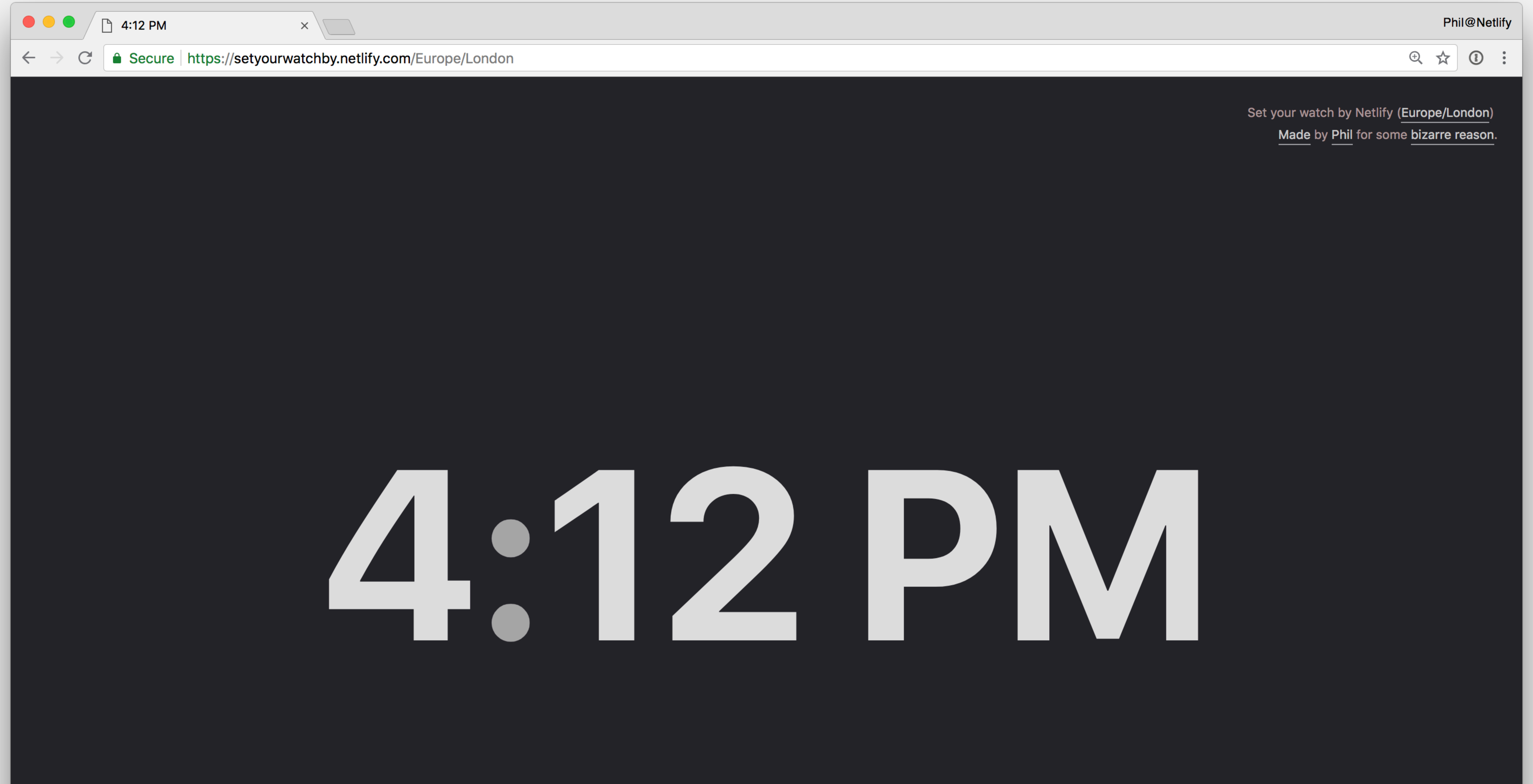
setyourwatchby.netlify.com

2:02 PM - 20 Jul 2018

12 Retweets **41** Likes

FINDTHAT.AT/TIME

https://setyourwatchby.netlify.com

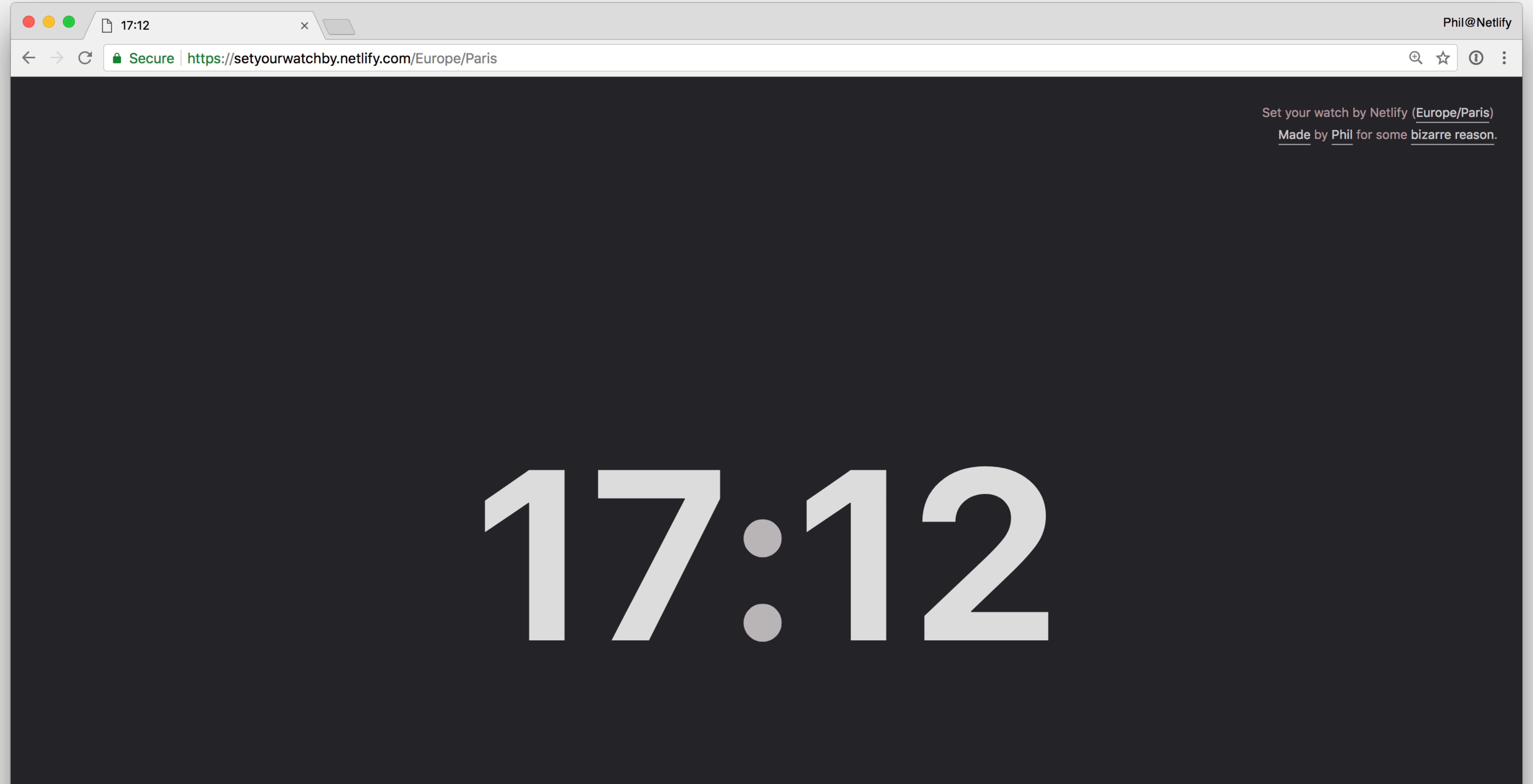


Set your watch by Netlify (Europe/London)
Made by Phil for some bizarre reason.

4:12 PM

FINDTHAT.AT/TIME

https://setyourwatchby.netlify.com

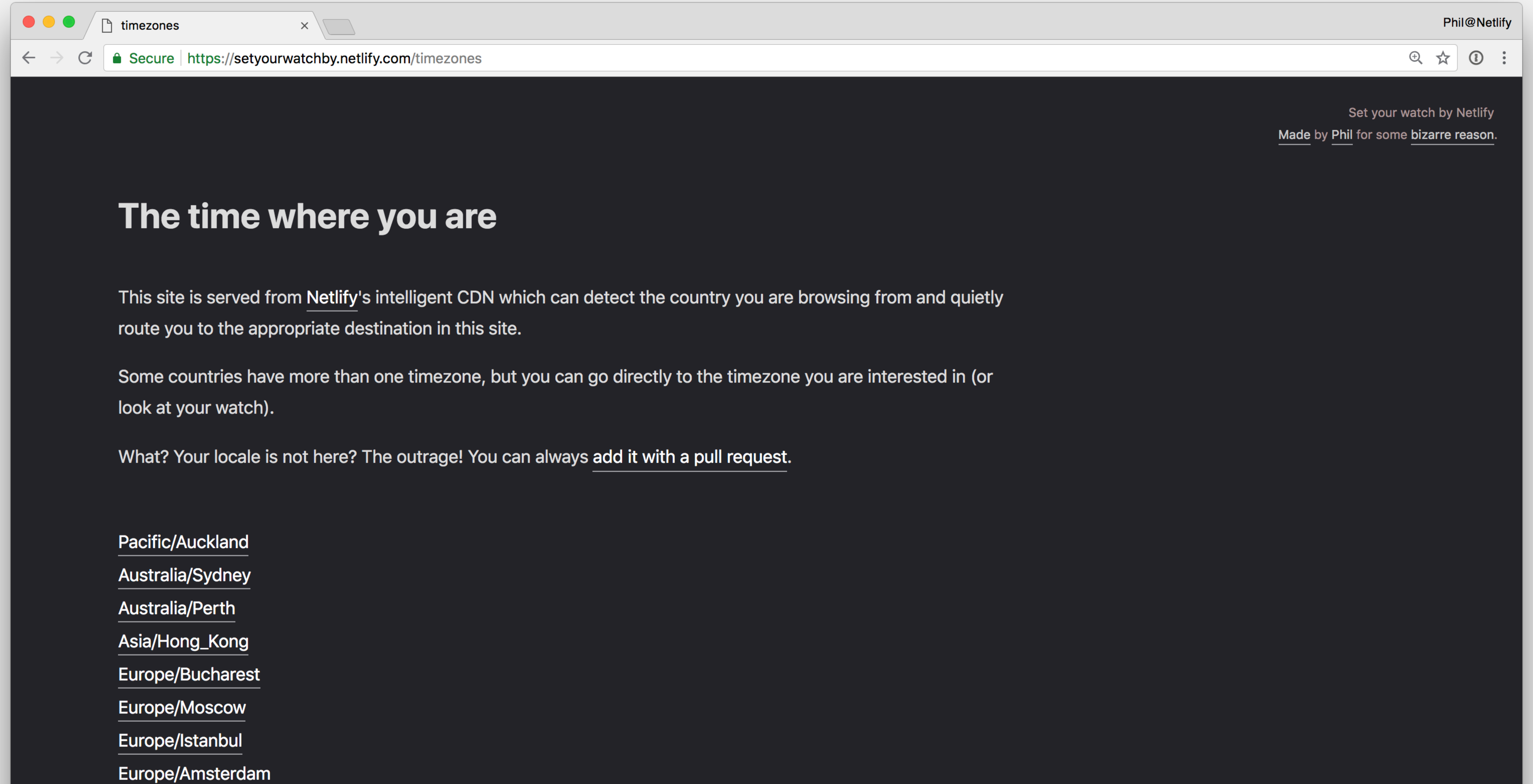


Set your watch by Netlify (Europe/Paris)
Made by Phil for some bizarre reason.

17:12

FINDTHAT.AT/TIME

https://setyourwatchby.netlify.com



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).

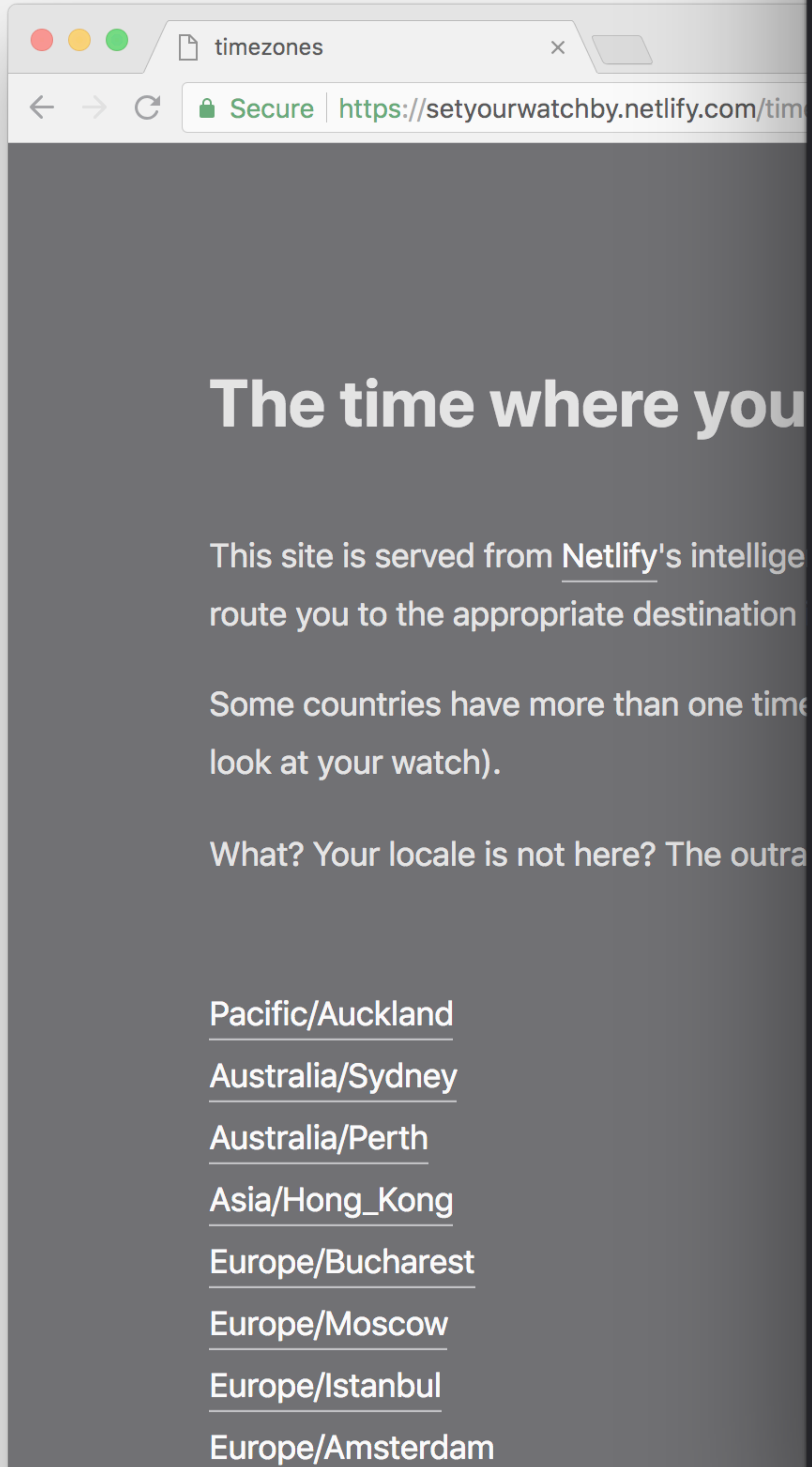
What? Your locale is not here? The outrage! You can always add it with a pull request.

- Pacific/Auckland
- Australia/Sydney
- Australia/Perth
- Asia/Hong_Kong
- Europe/Bucharest
- Europe/Moscow
- Europe/Istanbul
- Europe/Amsterdam

netlify | Are you being servered?

FINDTHAT.AT/TI

https://setyourwatchby.netlify.



The time where you

This site is served from Netlify's intellige
route you to the appropriate destination

Some countries have more than one time
look at your watch).

What? Your locale is not here? The outra

Pacific/Auckland
Australia/Sydney
Australia/Perth
Asia/Hong_Kong
Europe/Bucharest
Europe/Moscow
Europe/Istanbul
Europe/Amsterdam

Pacific/Auckland

Australia/Sydney

Australia/Perth

Asia/Hong_Kong

Europe/Bucharest

Europe/Moscow

Europe/Istanbul

Europe/Amsterdam

Europe/Paris

Europe/London

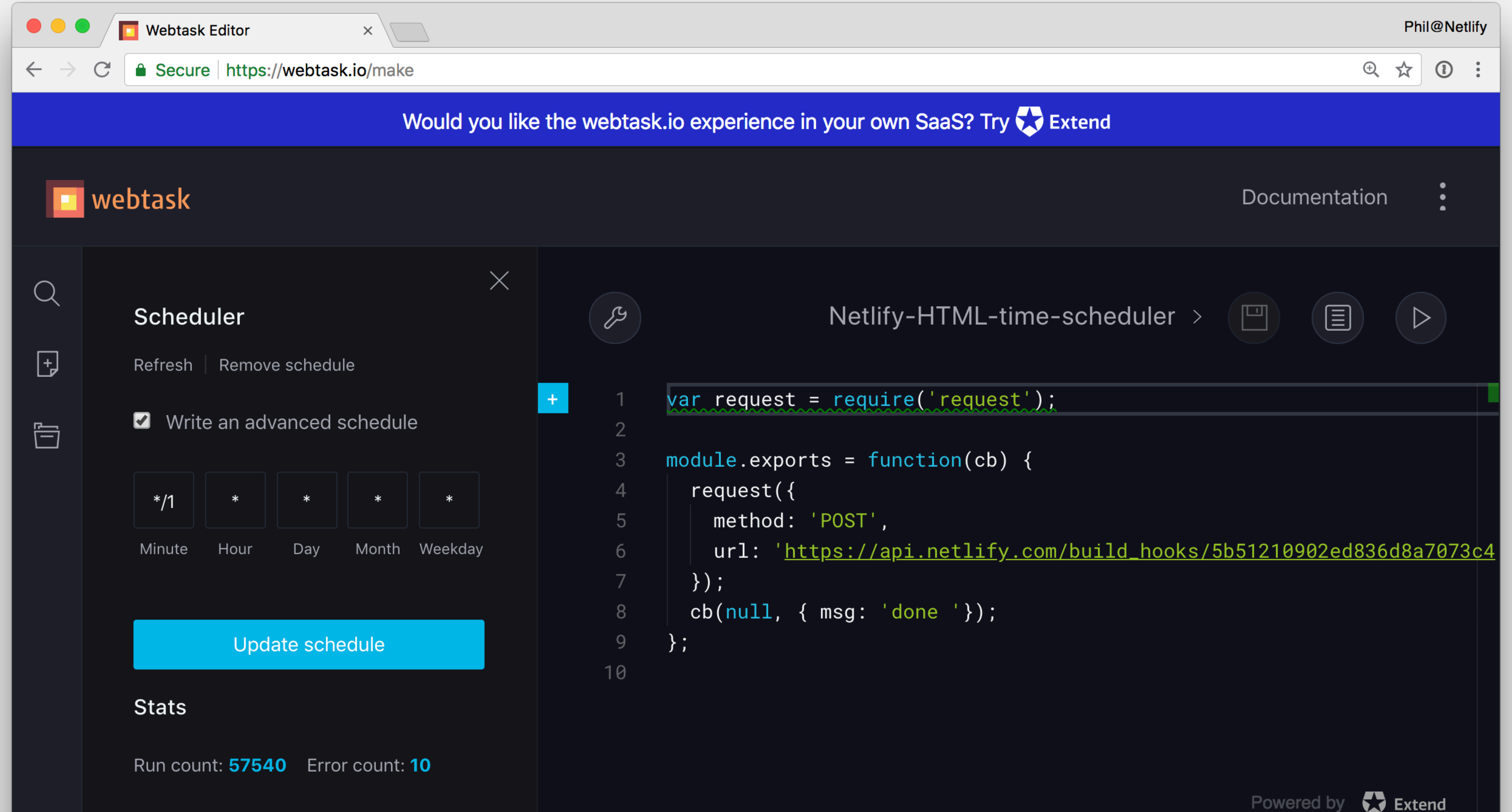
America/New_York

America/Chicago

America/Denver

America/Los_Angeles

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
Netlify-HTML-time-scheduler
Powered by Extend

Scheduler

Refresh | Remove schedule

☑ Write an advanced schedule

Minute	Hour	Day	Month	Weekday
*/1	*	*	*	*

Update schedule

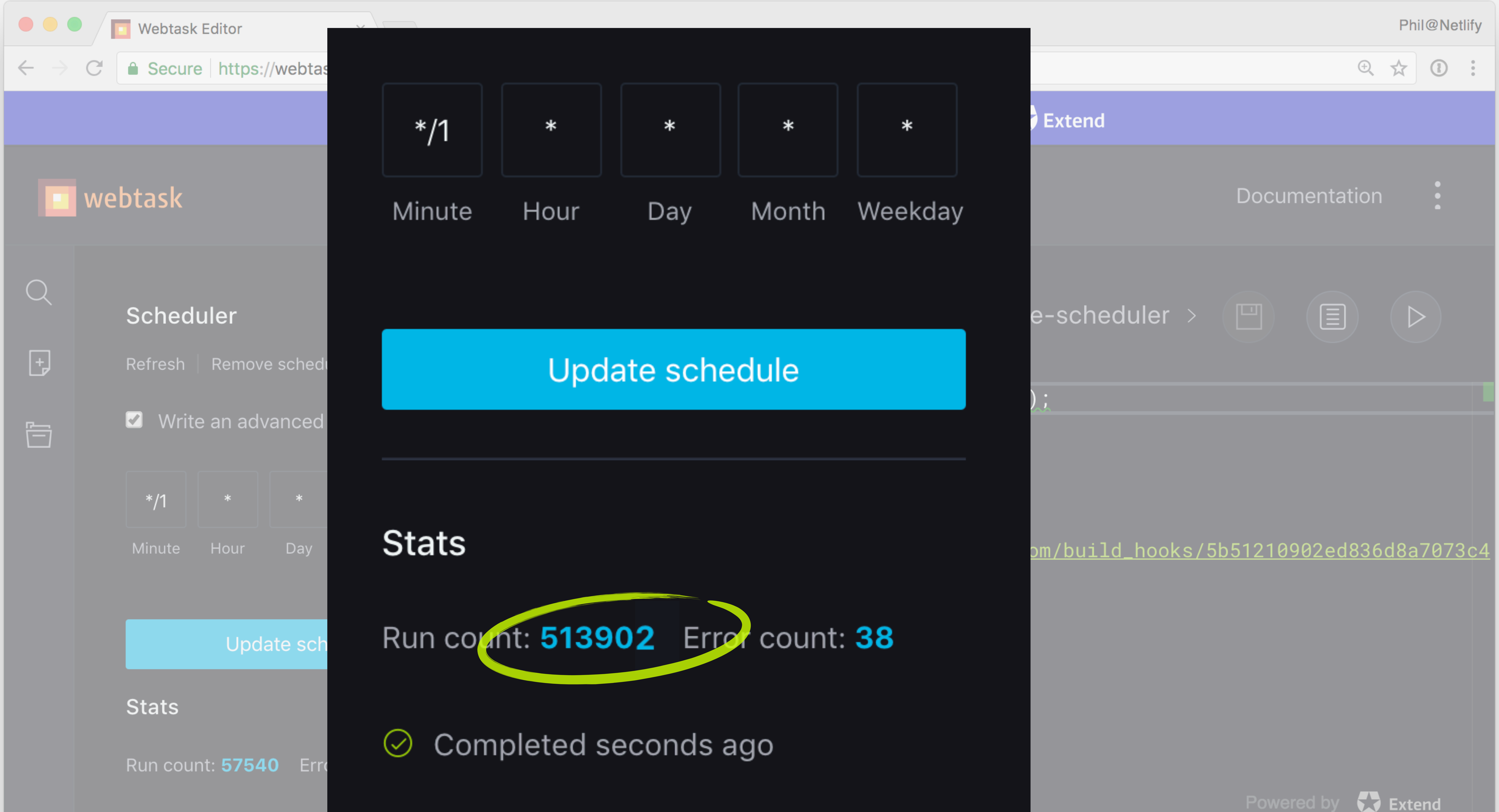
Stats

Run count: 57540 Error count: 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

Secure https://webtas

Phil@Netlify

webtask

Documentation

Scheduler

Refresh | Remove schedu

☑ Write an advanced

e-scheduler

om/build_hooks/5b51210902ed836d8a7073c4

*/1	*	*	*	*
Minute	Hour	Day	Month	Weekday

Update schedule

Stats

Run count: 513902 Error count: 38

✓ Completed seconds ago

Run count: 57540

(DON'T DO THIS)

illustrating a point…

VERY LOW DEPLOYMENT FRICTION

illustrating a point...

EVENTS AND AUTOMATION

a quick look at

TWO PRINCIPLES

PRE-RENDERING

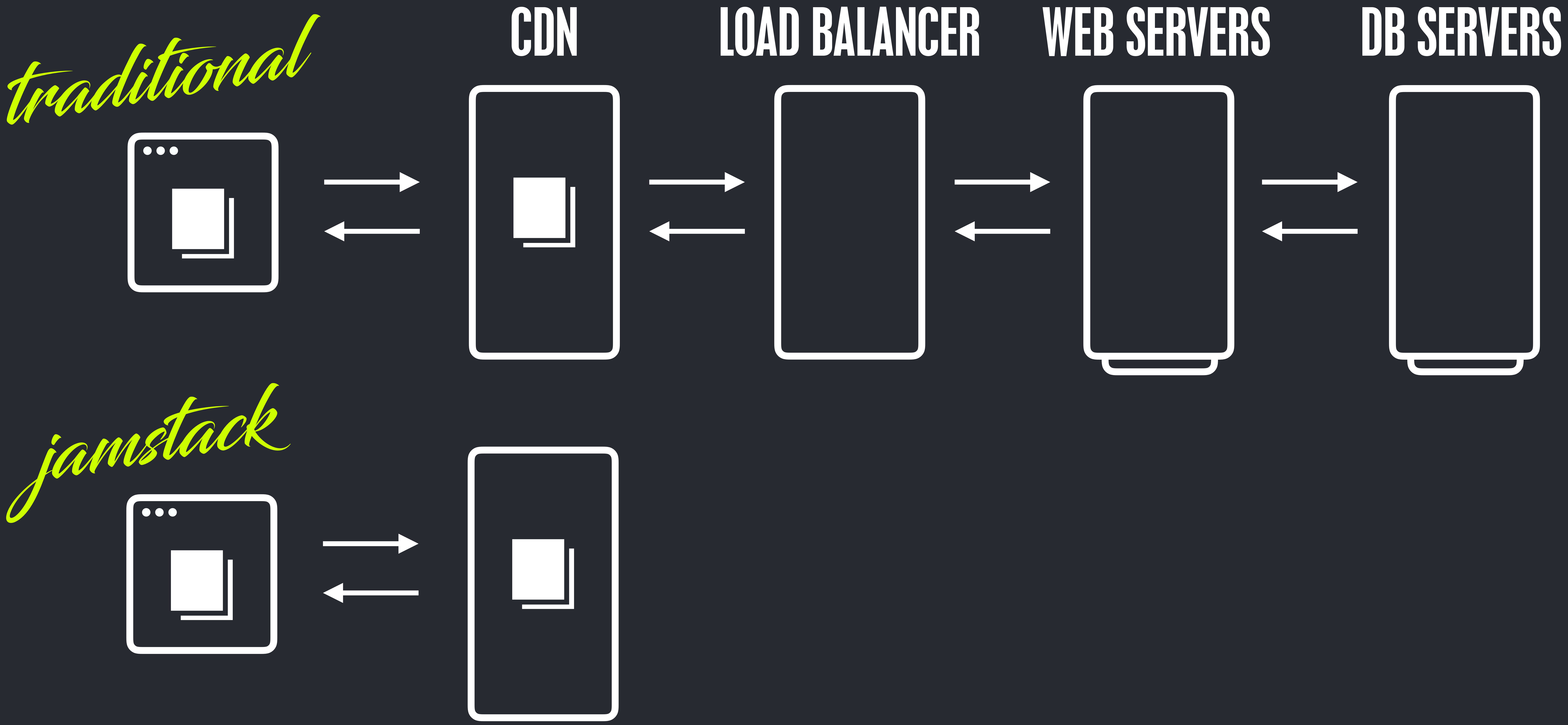
PRE-RENDERING

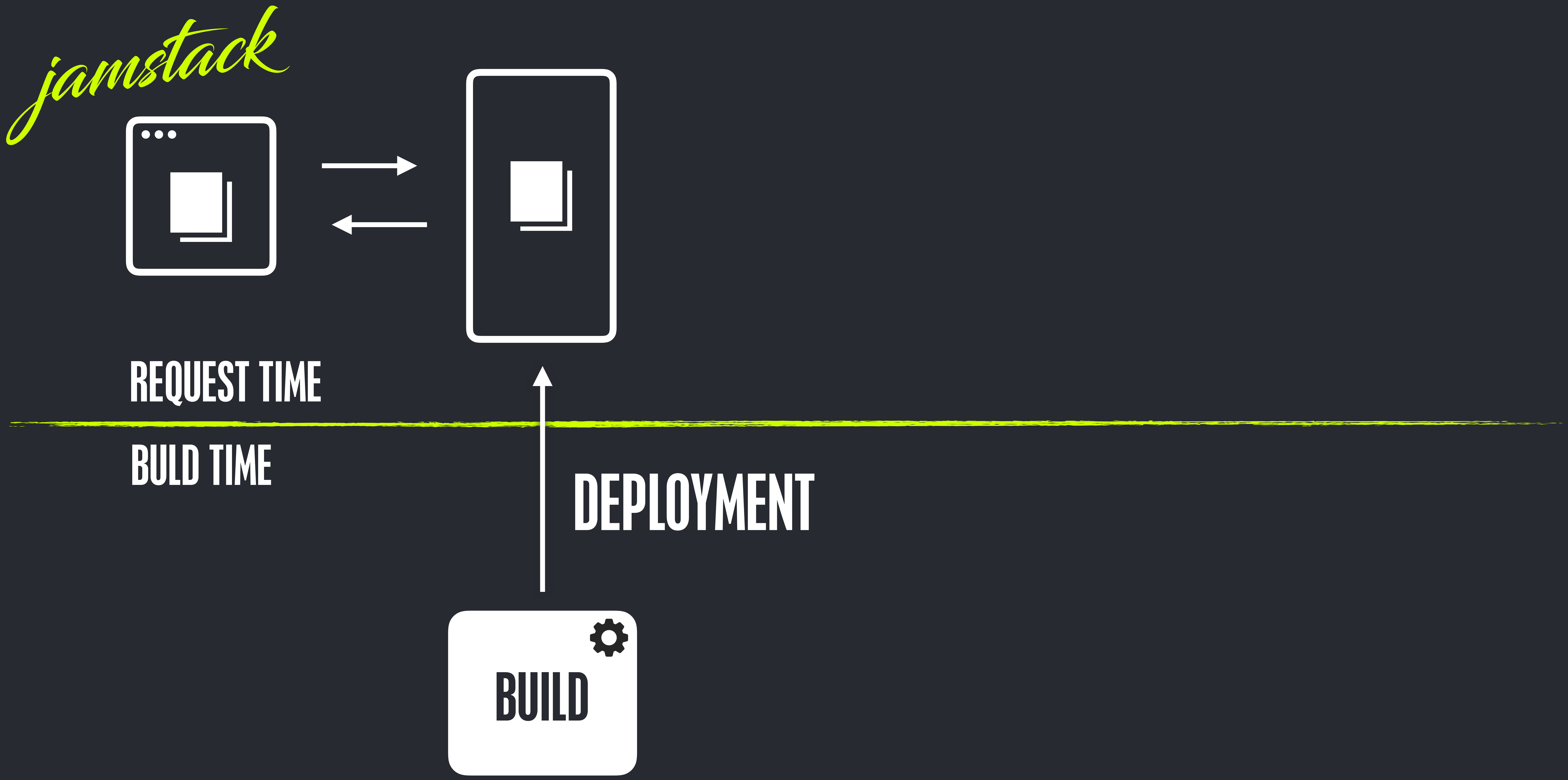
SERVERLESS RENDERING

motives for PRE-RENDERING

DOING THE WORK NOW, SO YOUR SERVERS DON'T HAVE TO LATER

PUT DISTANCE BETWEEN THE COMPLEXITY AND THE USER


traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
jamstack



jamstack

REQUEST TIME

BULD TIME

DEPLOYMENT

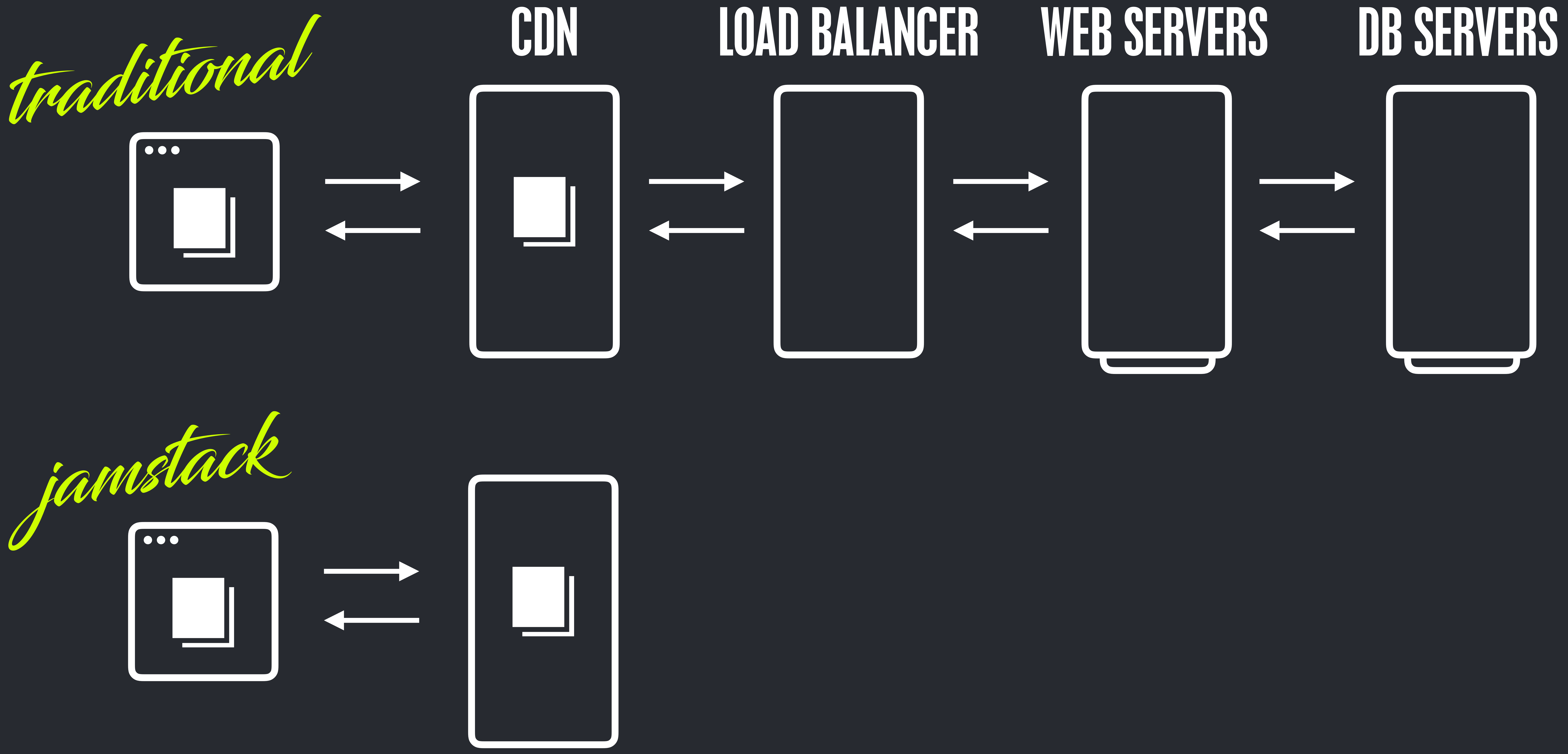
BUILD

JAMSTACK ADVANTAGES

SECURITY

PERFORMANCE

SCALE


traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
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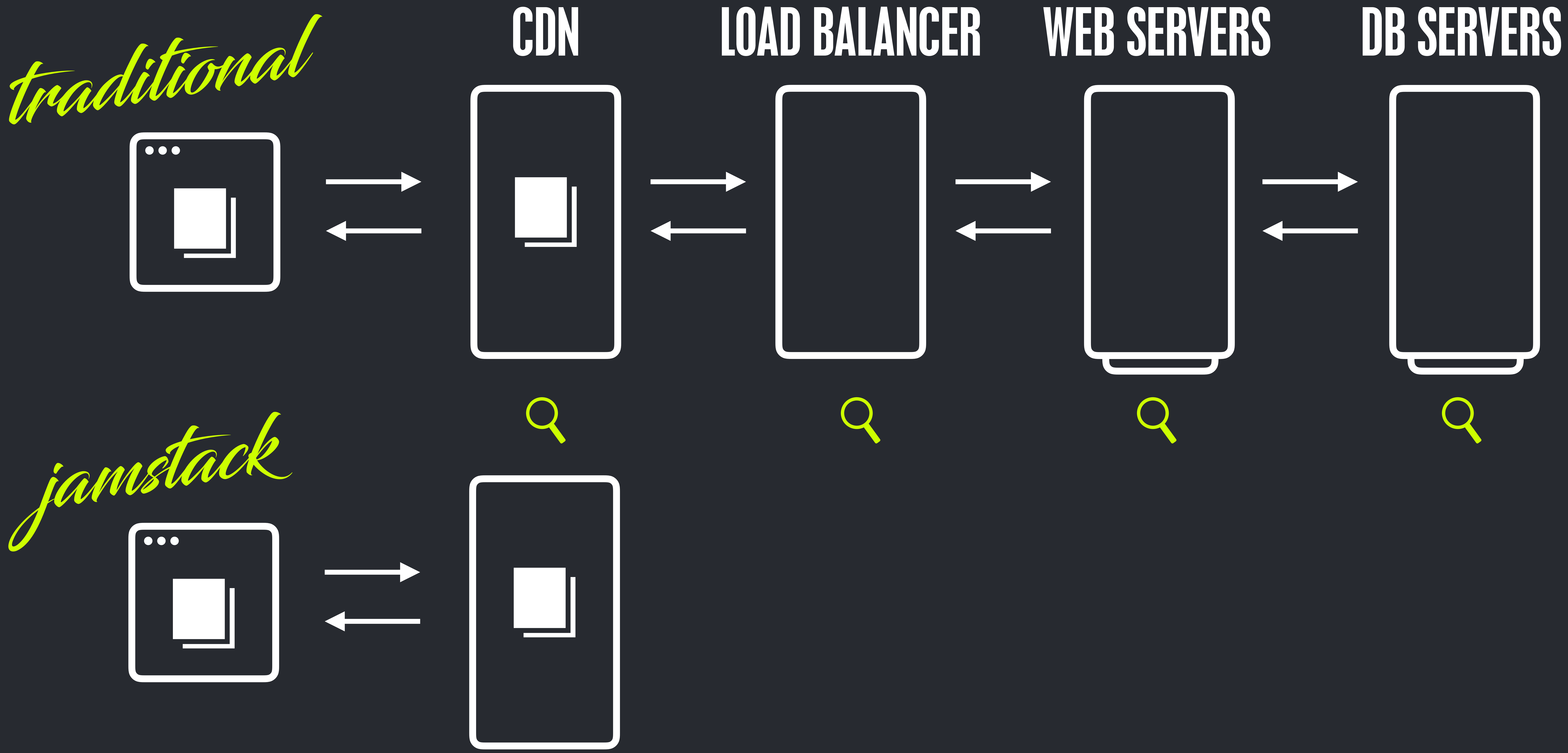
SECURITY

A GREATLY REDUCED SURFACE AREA

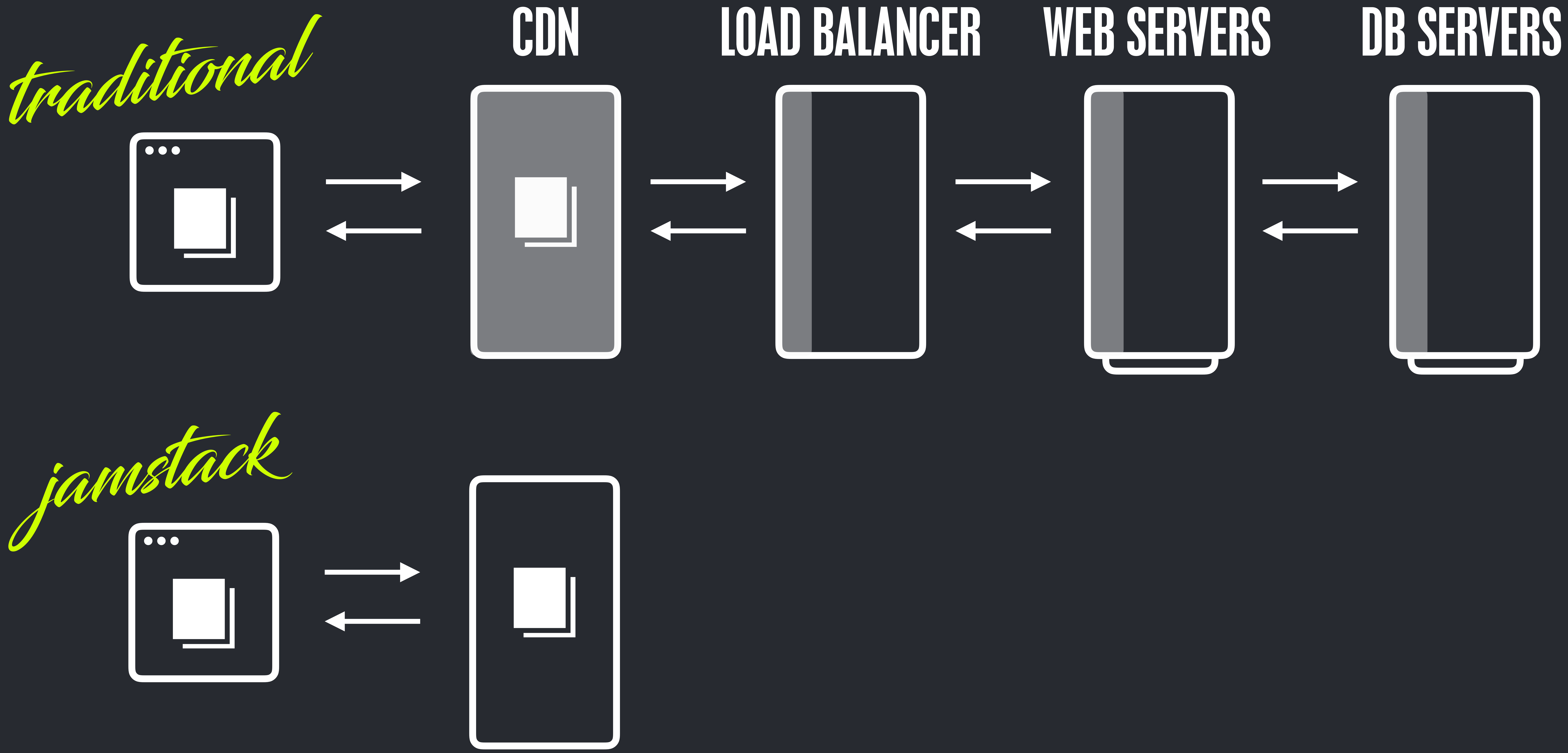

traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
jamstack

FAR FEWER MOVING PARTS TO ATTACK

PERFORMANCE

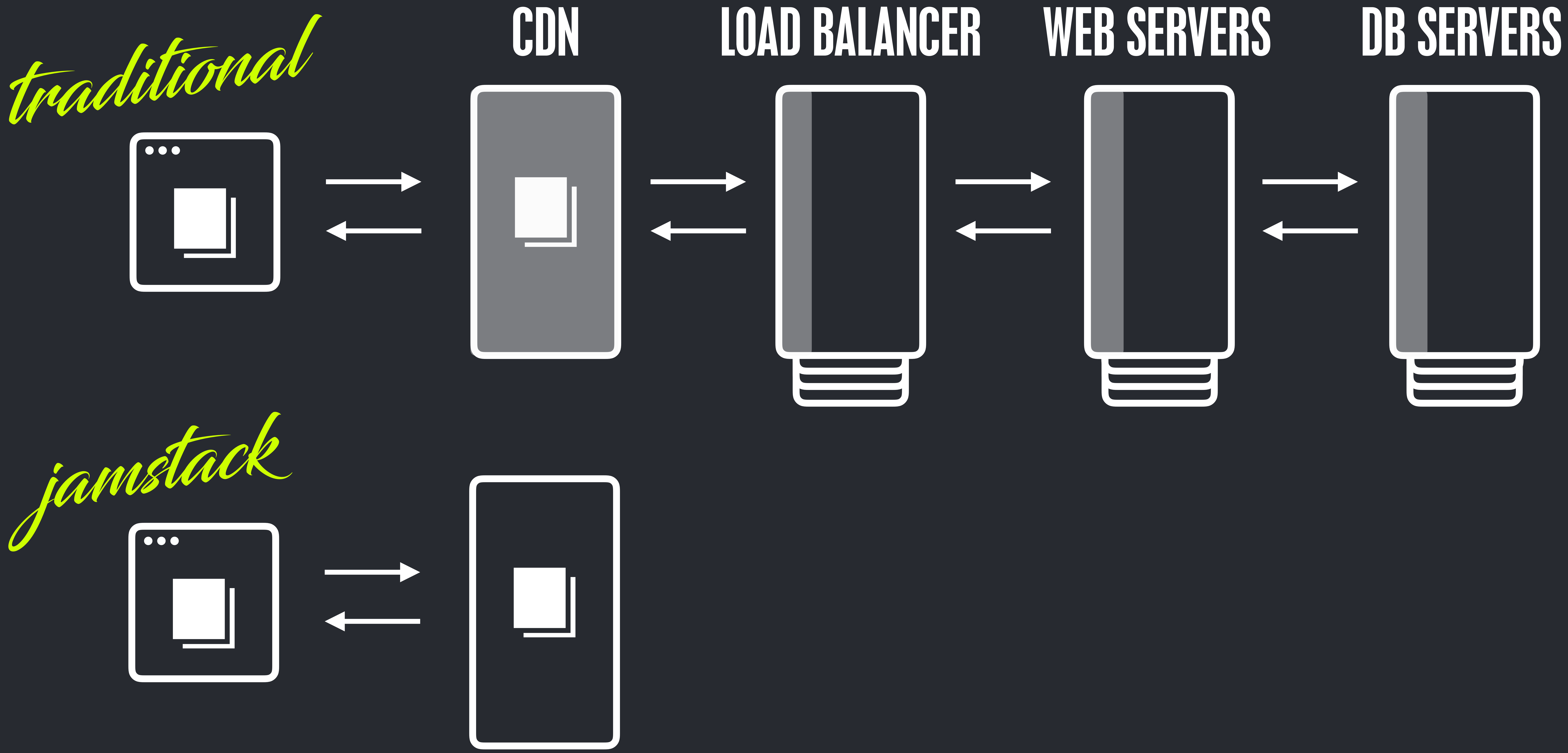
TRADITIONAL STACKS ADD STATIC LAYERS IN ORDER TO IMPROVE PERFORMANCE

CACHING GALORE


traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
jamstack

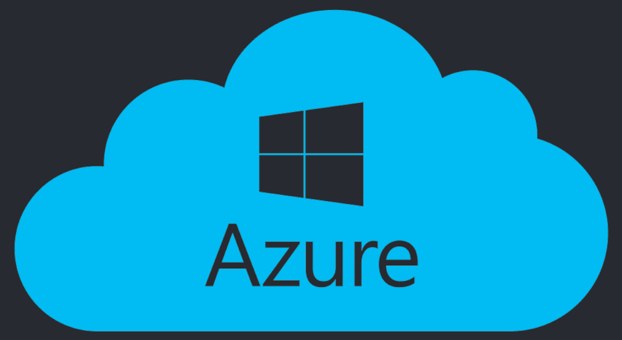
SCALE

TRADITIONAL STACKS ADD INFRASTRUCTURE IN ORDER TO SCALE


traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
jamstack

DECOUPLING

GET TO THE ~~CHOPPER~~ CDN


Azure

aws

netlify

PRE-RENDERING

SERVERLESS RENDERING

SERVERLESS RENDERING

jamstack

A modern architecture —

*Create fast and secure sites and dynamic apps with **J**avaScript, **A**PIs, and pre-rendered **M**arkup, served without web servers*

> I ABSOLUTELY POSITIVELY NEED A LITTLE LOGIC ON A SERVER

MANY OF US, SOMETIMES

SERVERLESS TO THE RESCUE

LET'S JUST RECREATE EVERYTHING IN SERVERLESS FUNCTIONS

THAT VOICE OF TEMPATION

free

FROM INFRASTRUCTURE

but not free

FROM DYNAMIC LOGIC

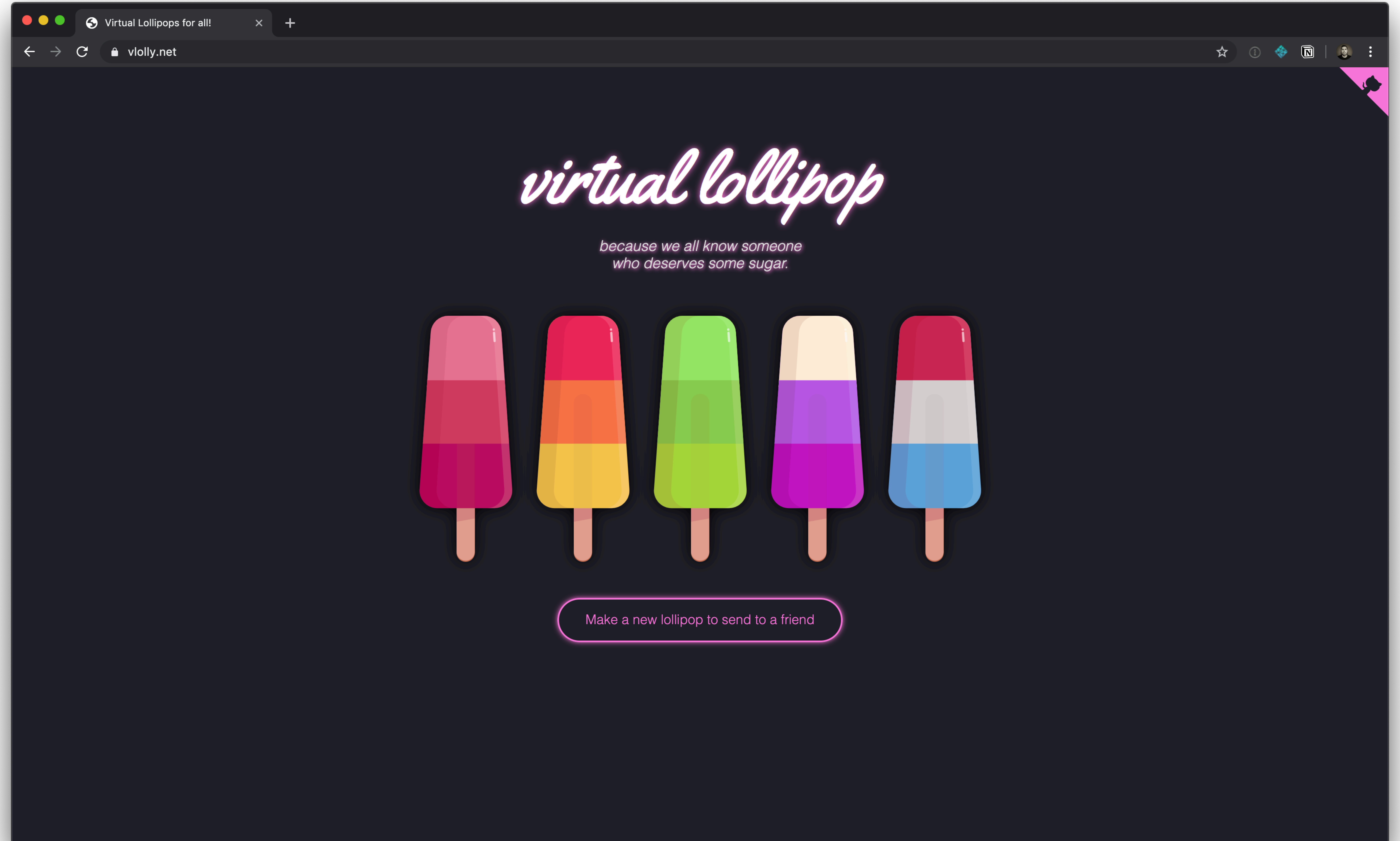
AUGMENTATION

ENHANCEMENT

STATIC FIRST

MARKUS SCHORK, UNILEVER

AN EXAMPLE

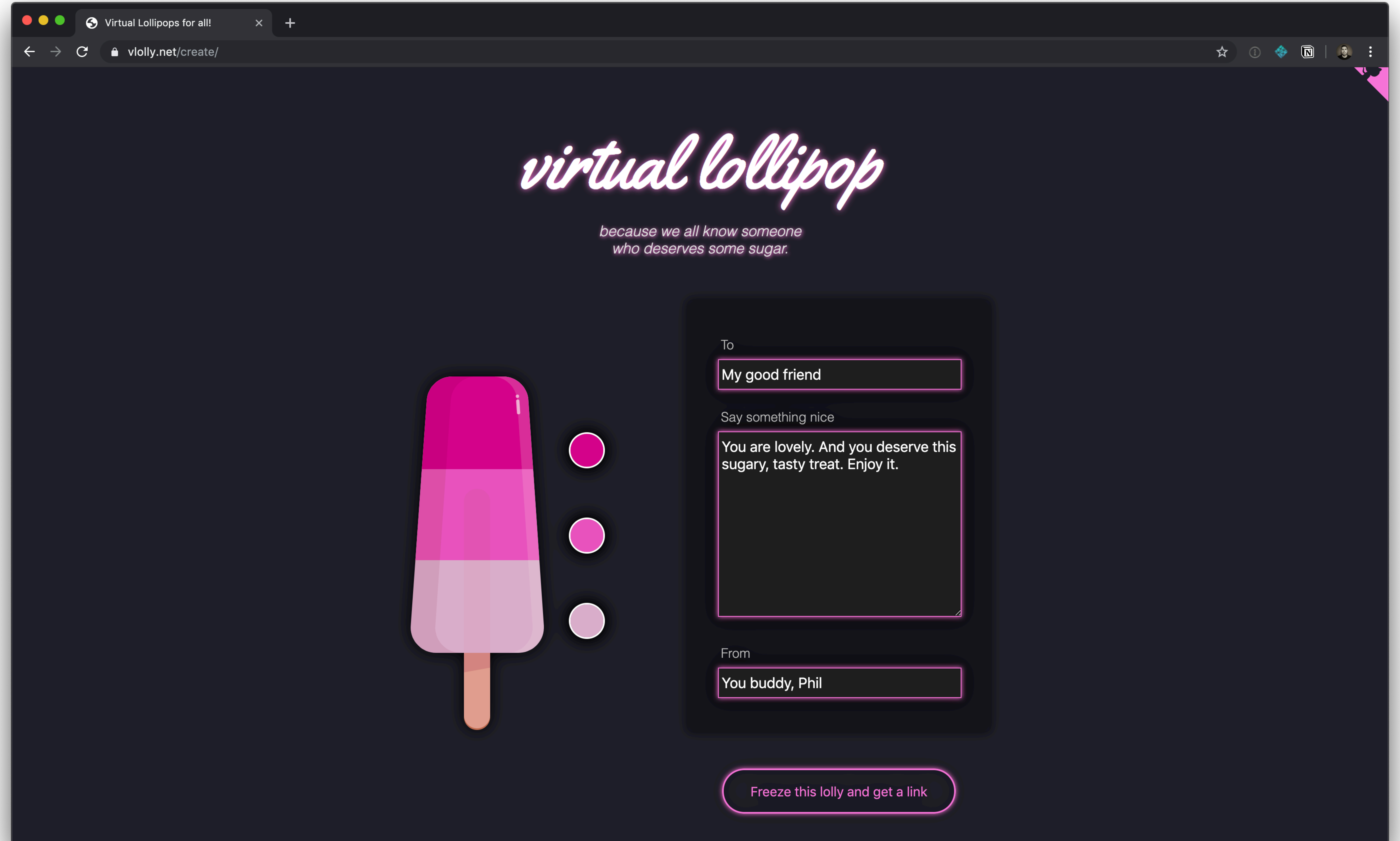


Virtual Lollipops for all!
vlolly.net

virtual lollipop

because we all know someone
who deserves some sugar.

Make a new lollipop to send to a friend



virtual lollipop

because we all know someone who deserves some sugar.

To

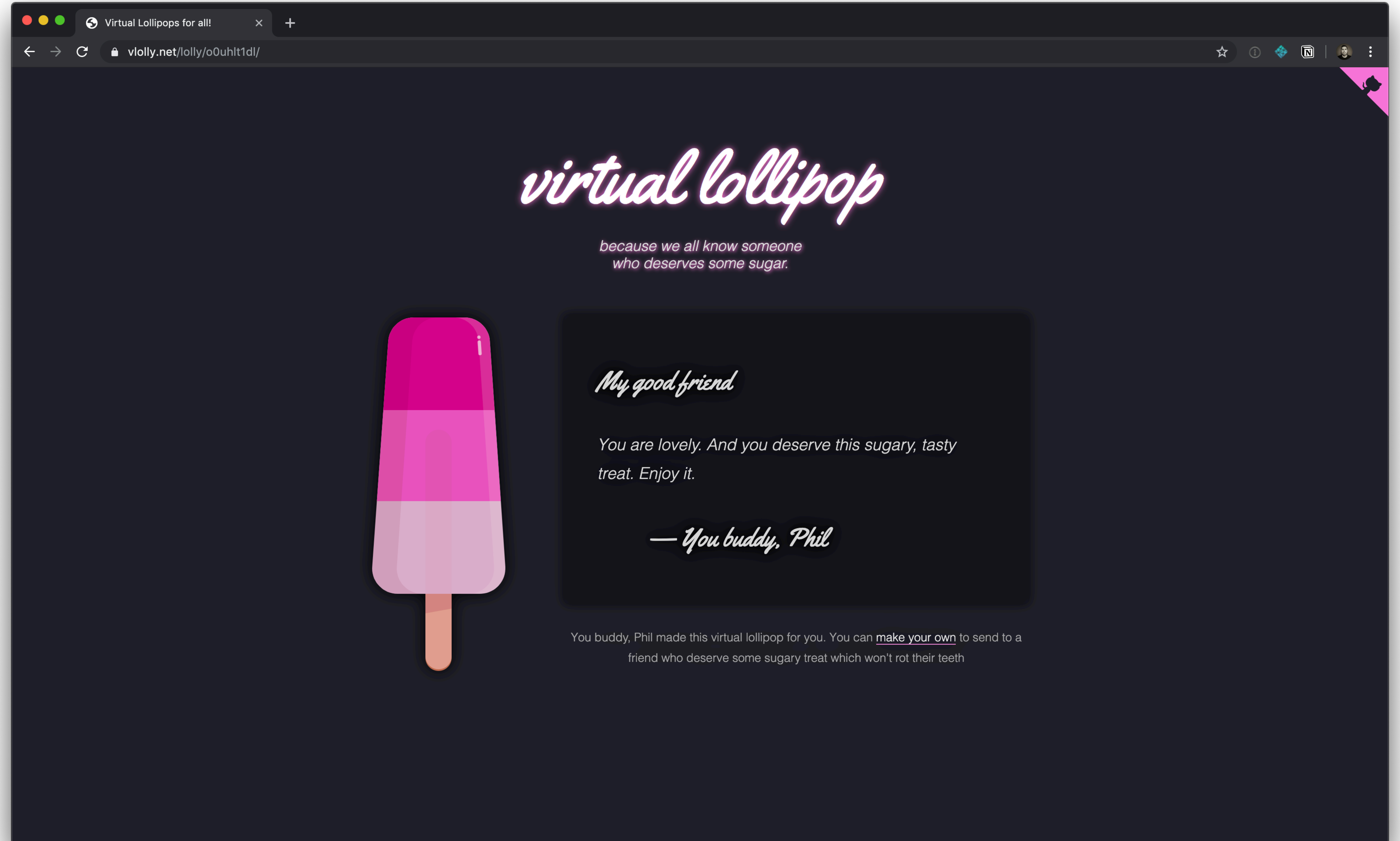
My good friend

Say something nice

You are lovely. And you deserve this sugary, tasty treat. Enjoy it.

From

You buddy, Phil



virtual lollipop

because we all know someone
who deserves some sugar.

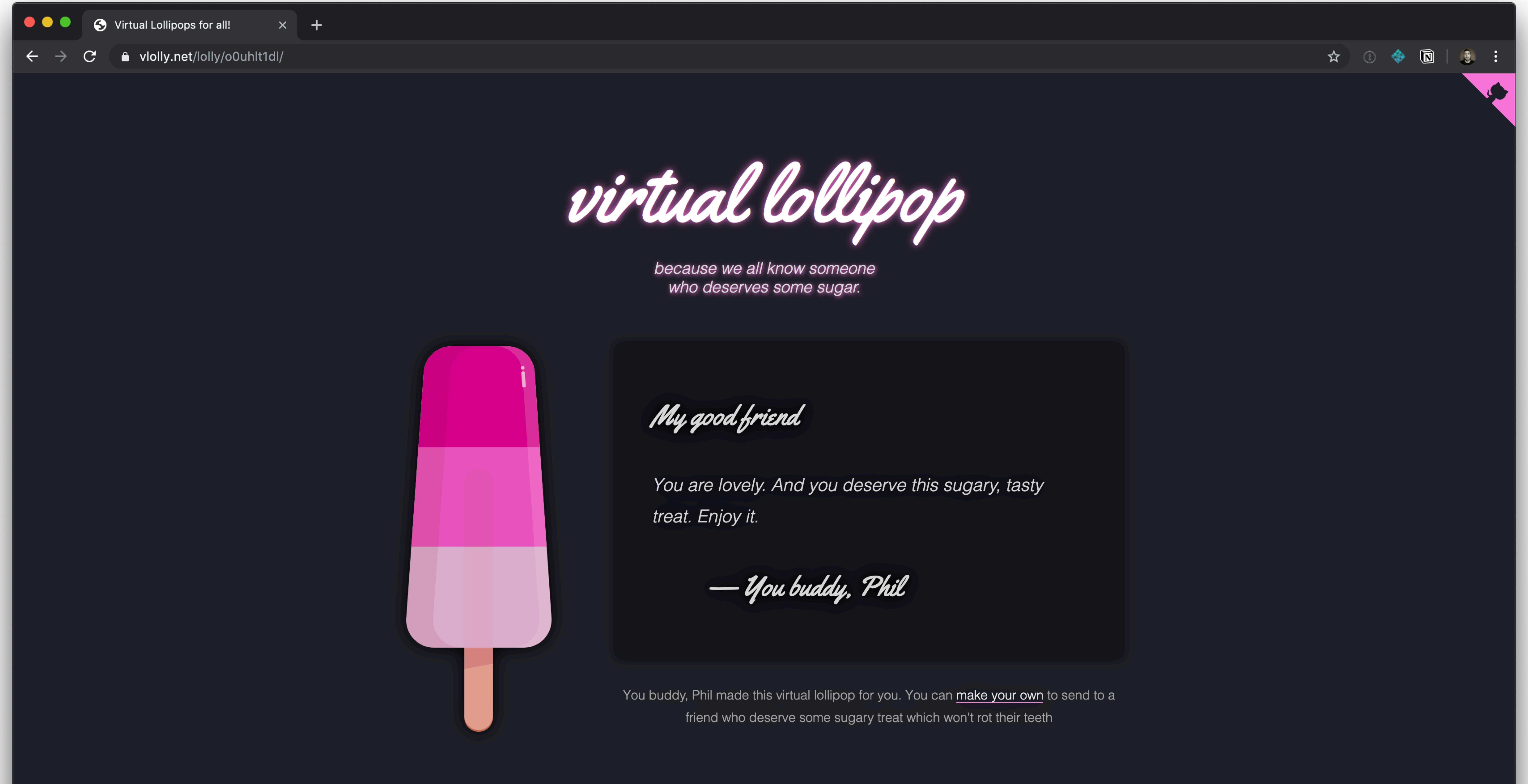
My good friend

You are lovely. And you deserve this sugary, tasty treat. Enjoy it.

— You buddy, Phil

You buddy, Phil made this virtual lollipop for you. You can make your own to send to a friend who deserve some sugary treat which won't rot their teeth

VLOLLY.NET/LOLLY/3hmtt2r3b



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requirements

PRE-GENERATED PAGES WITH REAL URLS

(EVEN FOR THE USER GENERATED CONTENT)

DATA STORED IN A DATABASE

(BUT DON'T MAKE ME A DBA)

INSTANT ACCESS TO NEW CONTENT

(WITHOUT WAITING FOR A REBUILD)

tools

PRE-GENERATED PAGES WITH REAL URLS

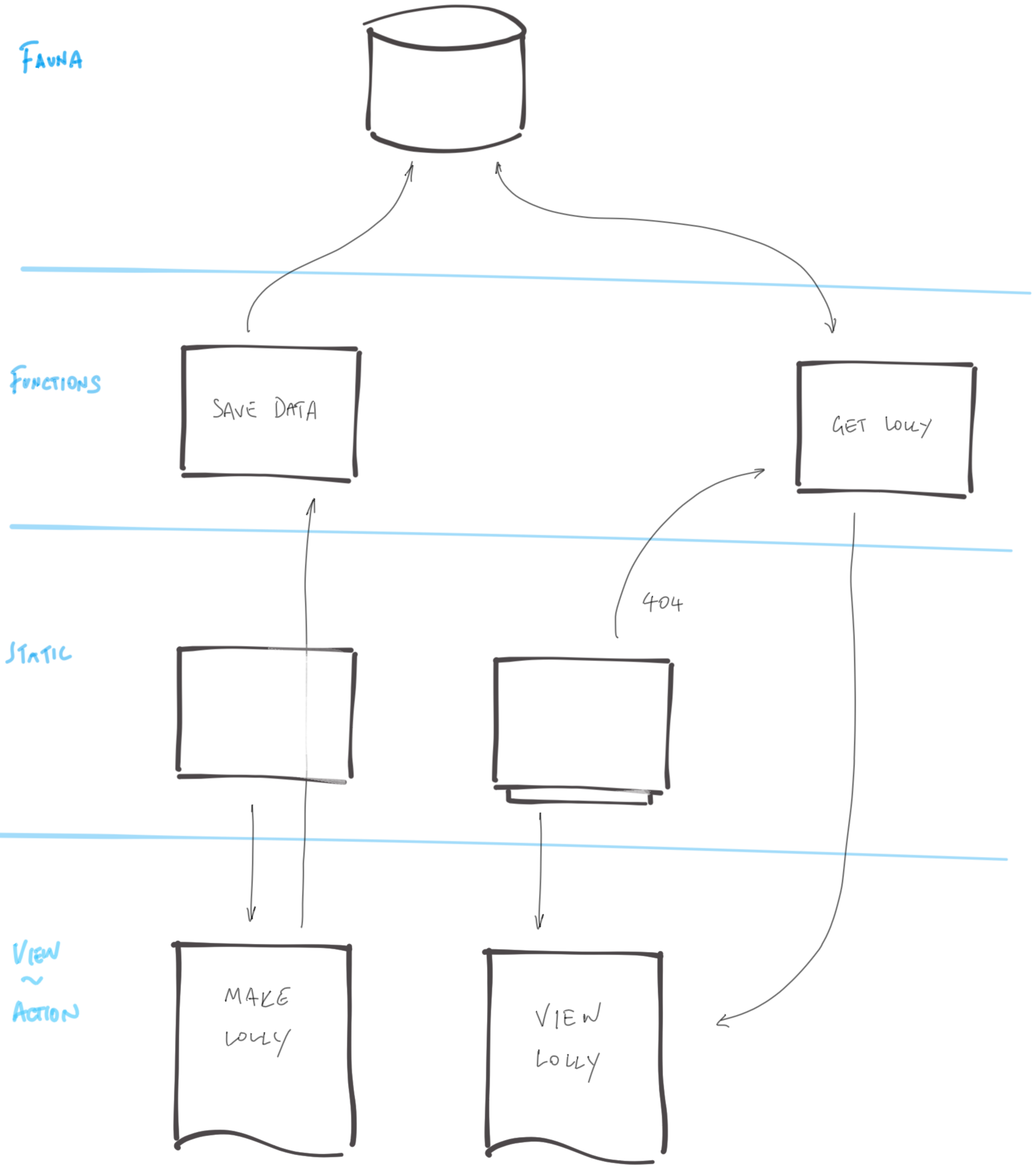
ELEVENTY

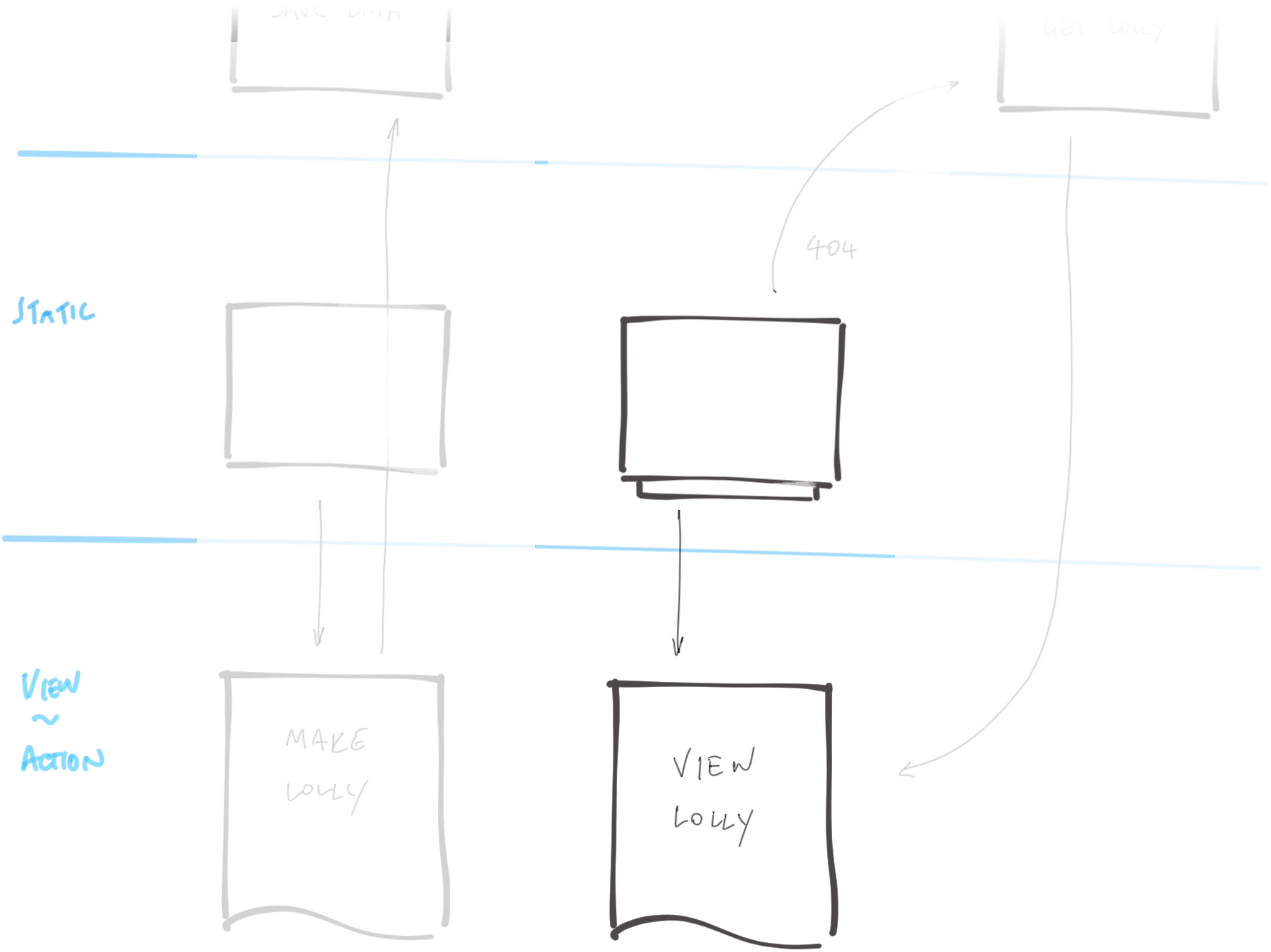
DATA STORED IN A DATABASE

FAUNADB

INSTANT ACCESS TO NEW CONTENT

NETLIFY FUNCTIONS


FAUNA
FUNCTIONS
SAVE DATA
GET LOLLY
404
STATIC
VIEW
~
ACTION
MAKE LOLLY
VIEW LOLLY


SAVE DATA
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ACTION
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VIEW LOLLY

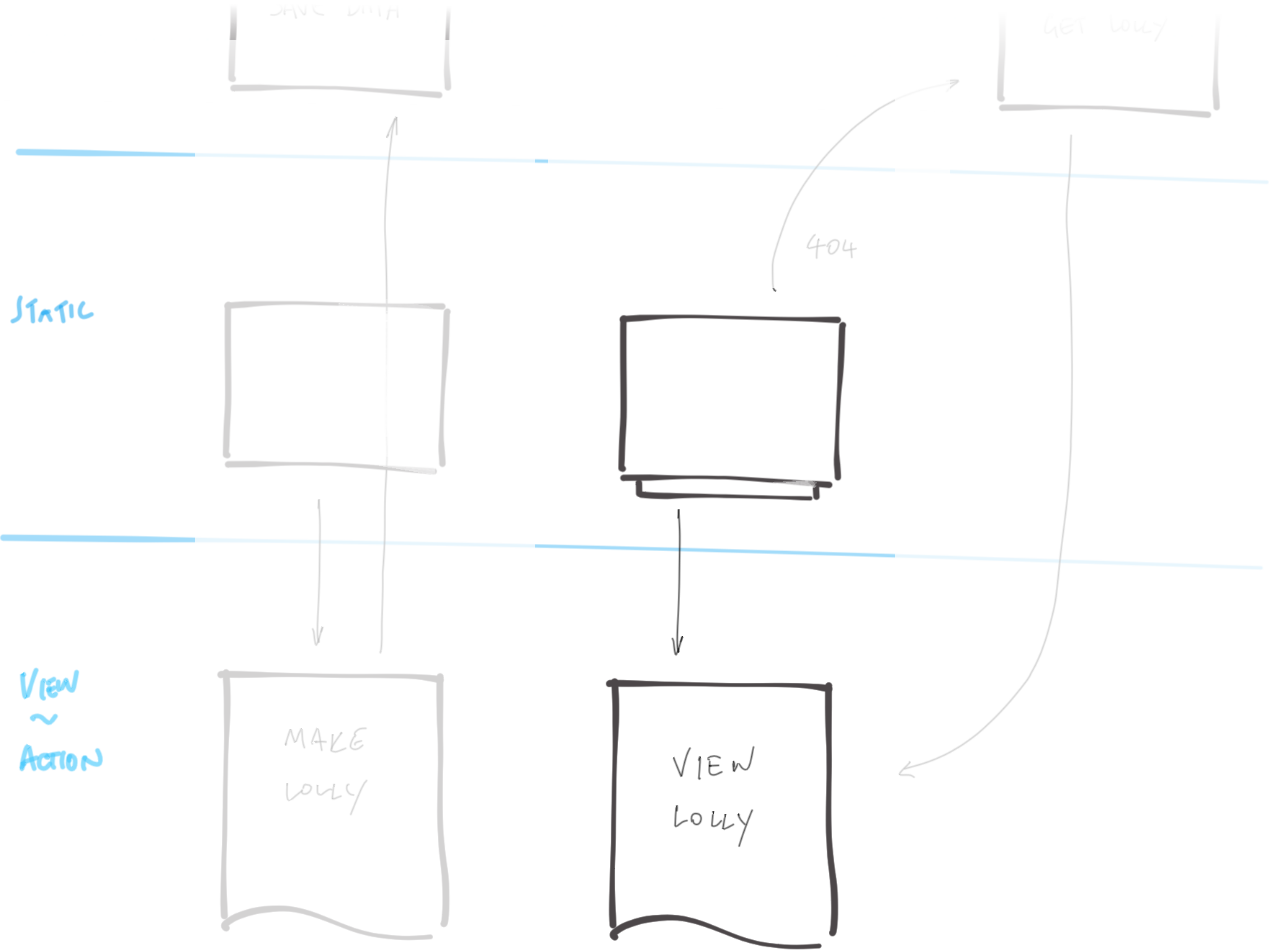
```
const faunadb = require('faunadb');
const q = faunadb.query;
const client = new faunadb.Client({
  secret: process.env.FAUNADB_SERVER_SECRET
});

module.exports = () => {
  return new Promise((resolve, reject) => {
    client.query(
      q.Paginate(q.Match(q.Ref("indexes/all_lollies")))
    ).then((response) => {
      const lollies = response.data;
      const getAllDataQuery = lollies.map((ref) => {
        return q.Get(ref);
      });
      return client.query(getAllDataQuery).then((ret) => {
        resolve(ret);
      });
    }).catch((error) => {
      reject(error);
    });
  })
}
```

AUTHENTICATE WITH THE DB

QUERY FOR ALL THE LOLLIES... AND THEIR DATA

RESOLVE THE PROMISE OF LOLLIES

CATCH ANY ERRORS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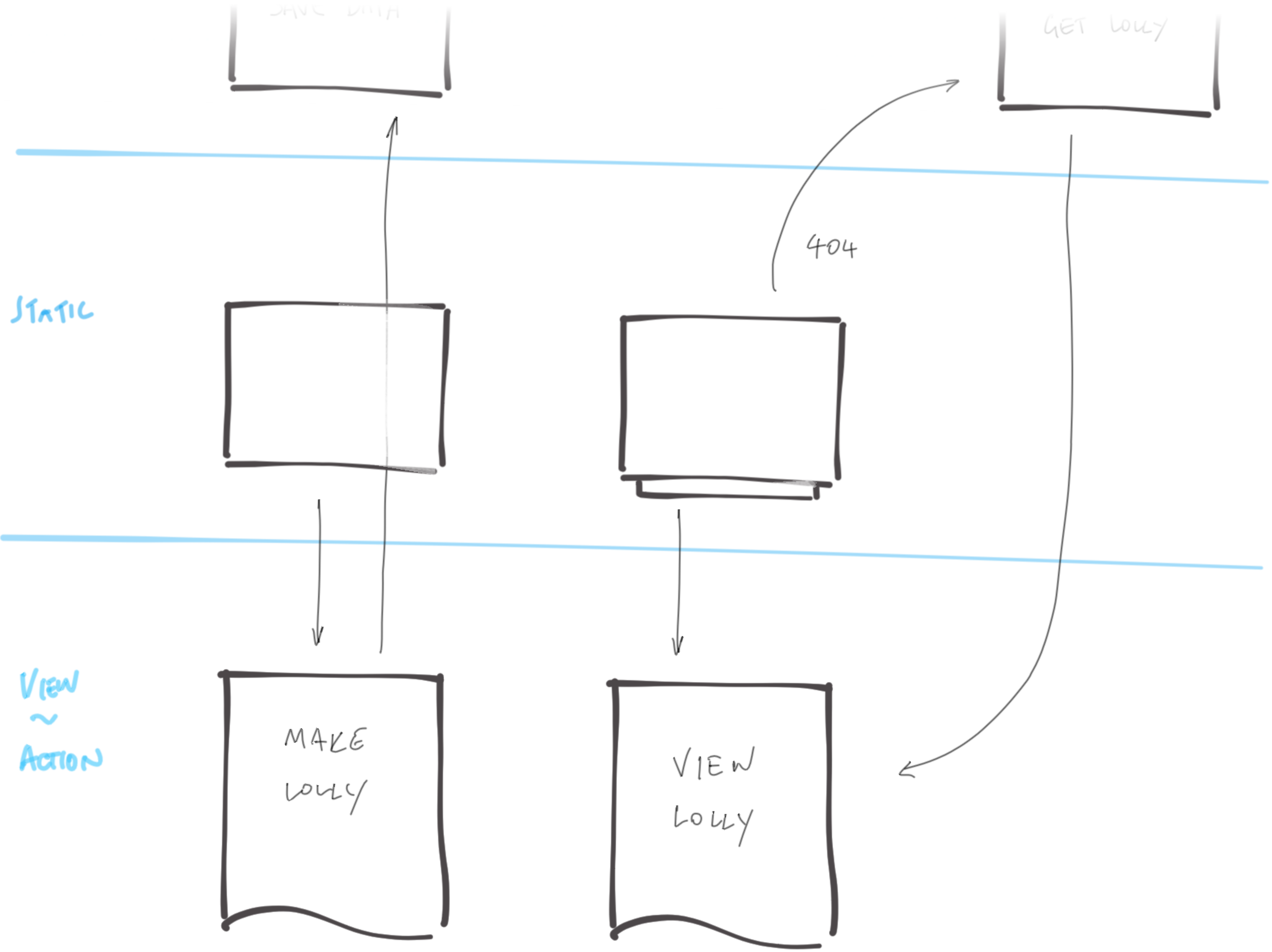
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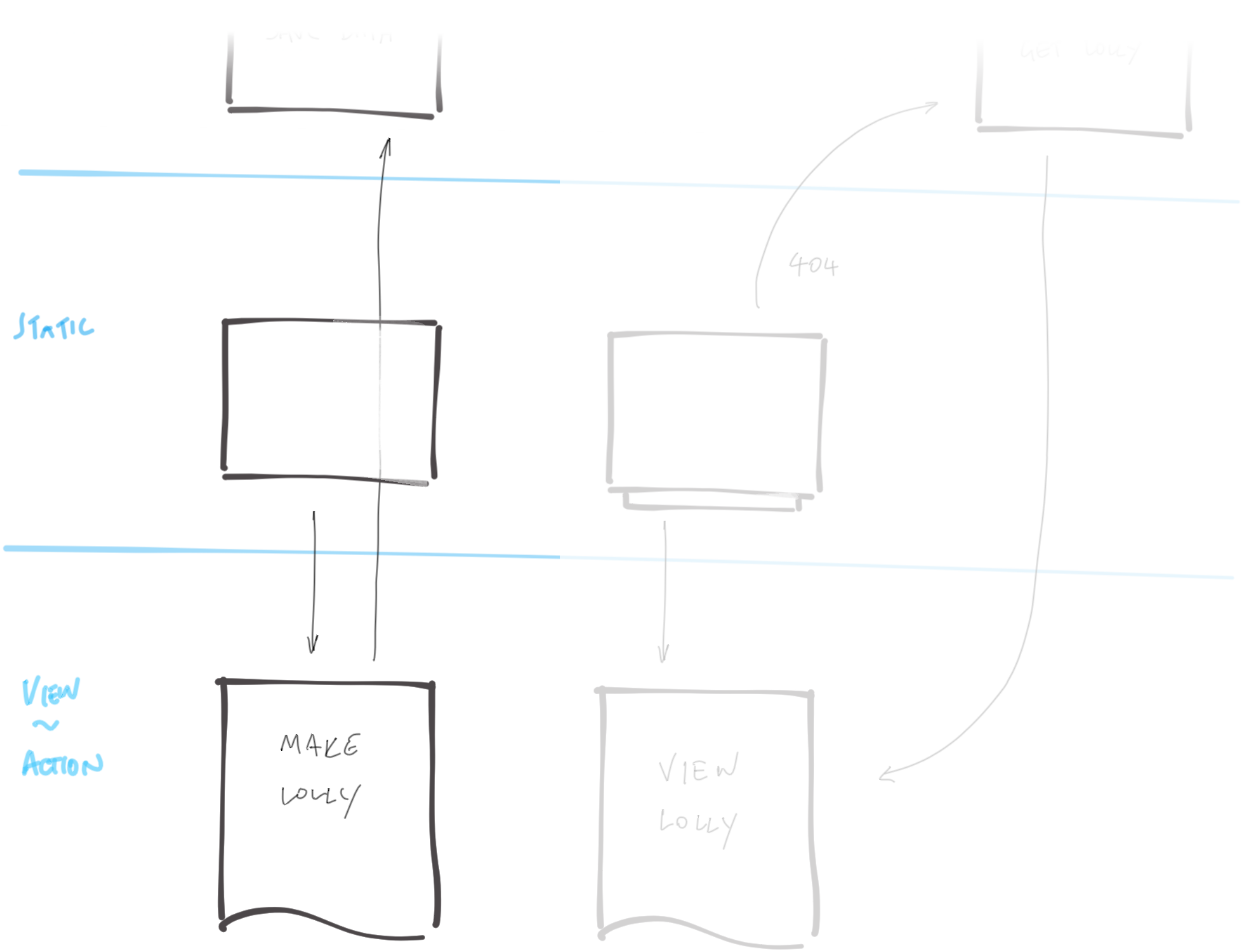
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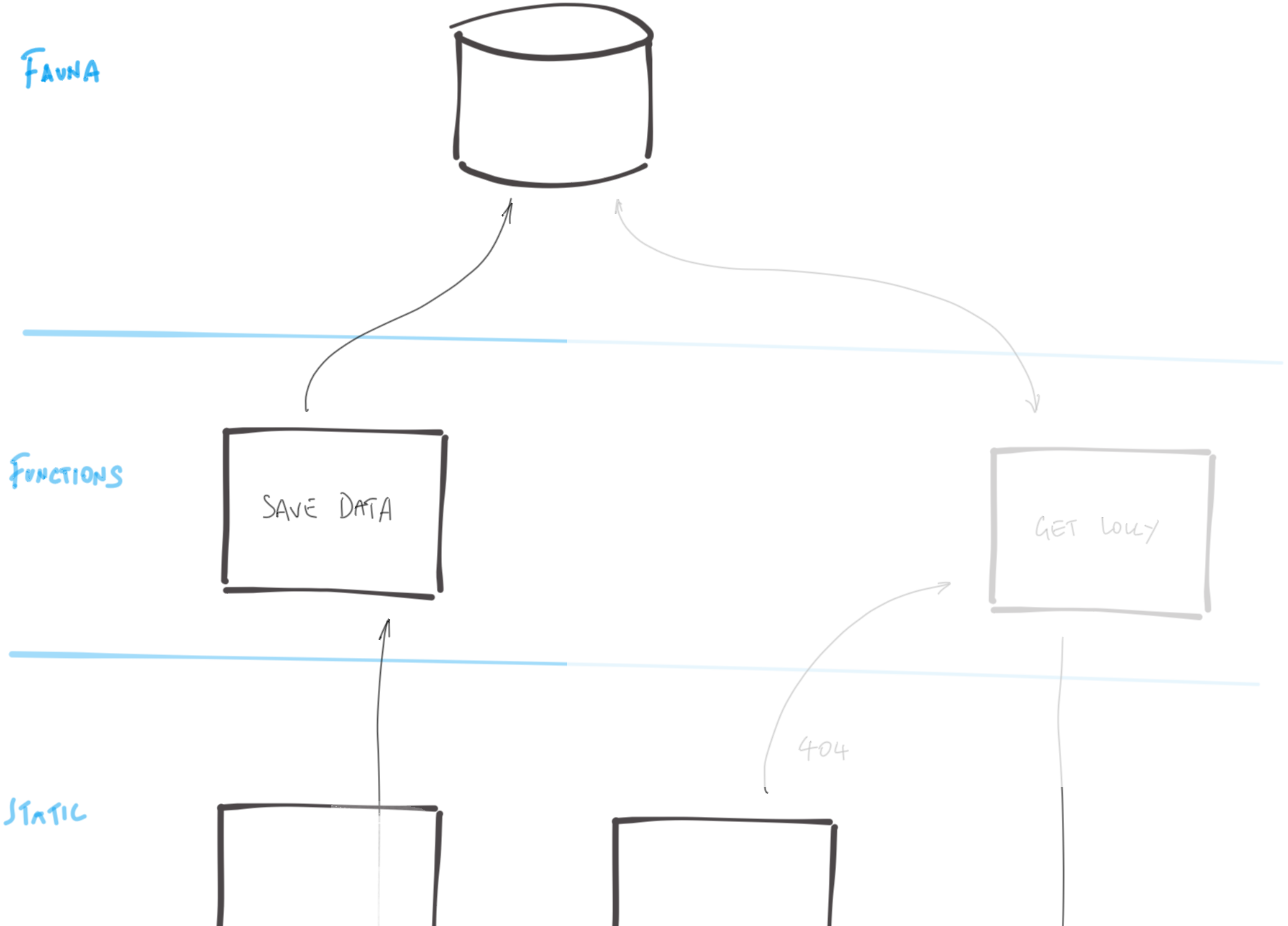
FAUNA
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SAVE DATA
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404
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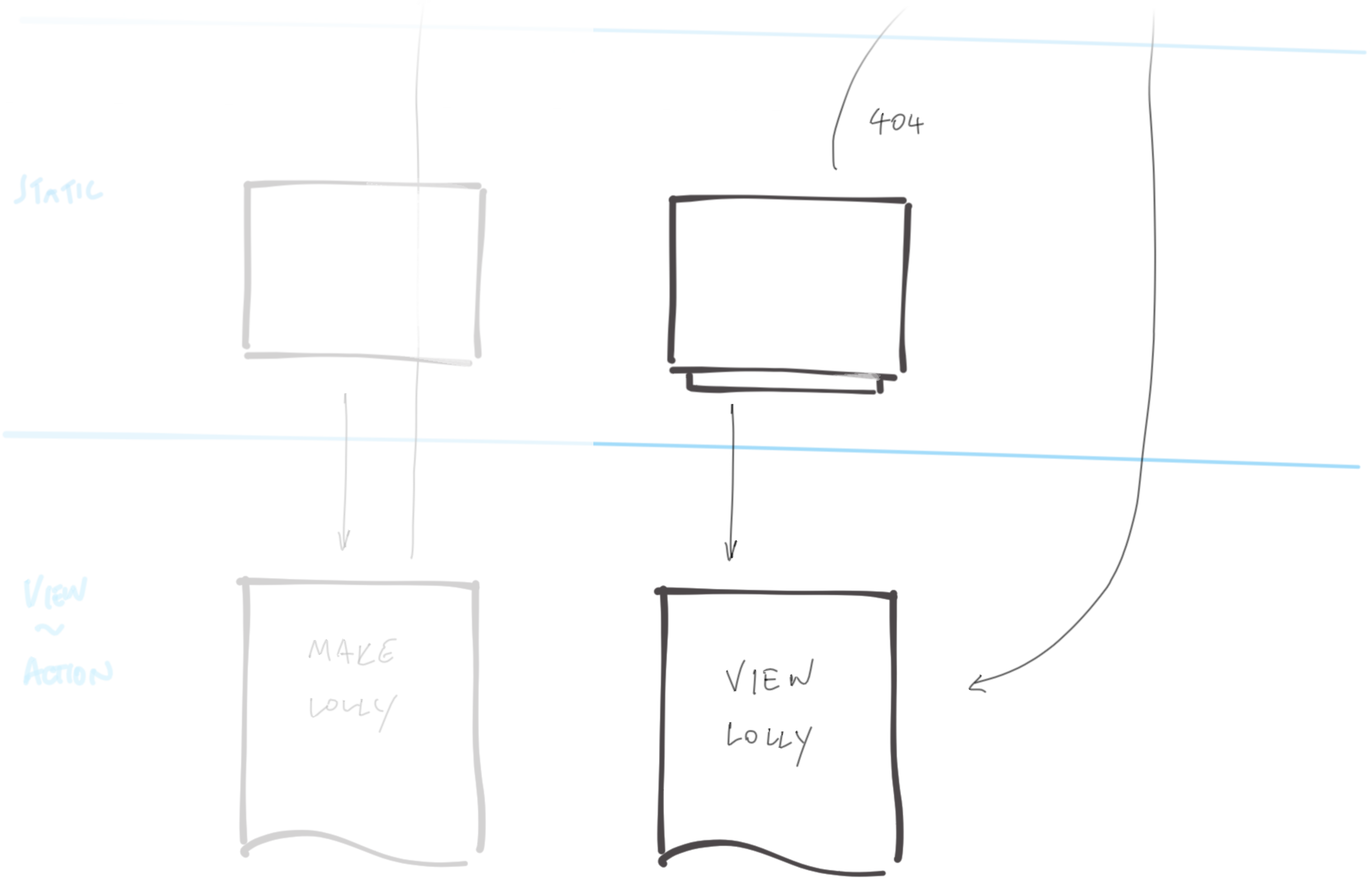
404
STATIC
VIEW
~
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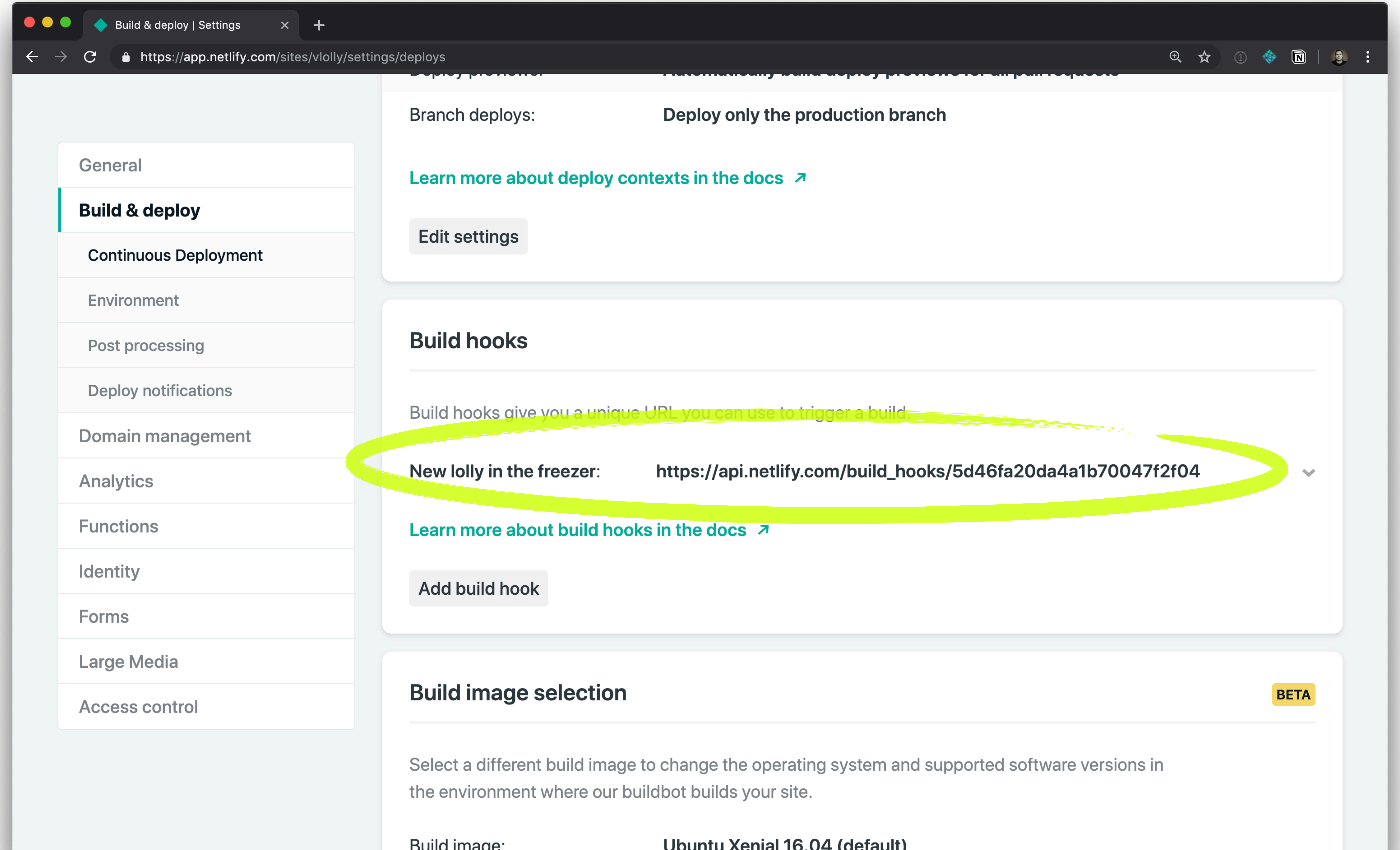
LOLLY

404

TRIGGERS AND AUTOMATION



Build & deploy | Settings
https://app.netlify.com/sites/vlolly/settings/deploys

Deploy previews: Automatically build deploy previews for all pull requests

Branch deploys: **Deploy only the production branch**

Learn more about deploy contexts in the docs ↗

Build hooks

Build hooks give you a unique URL you can use to trigger a build.

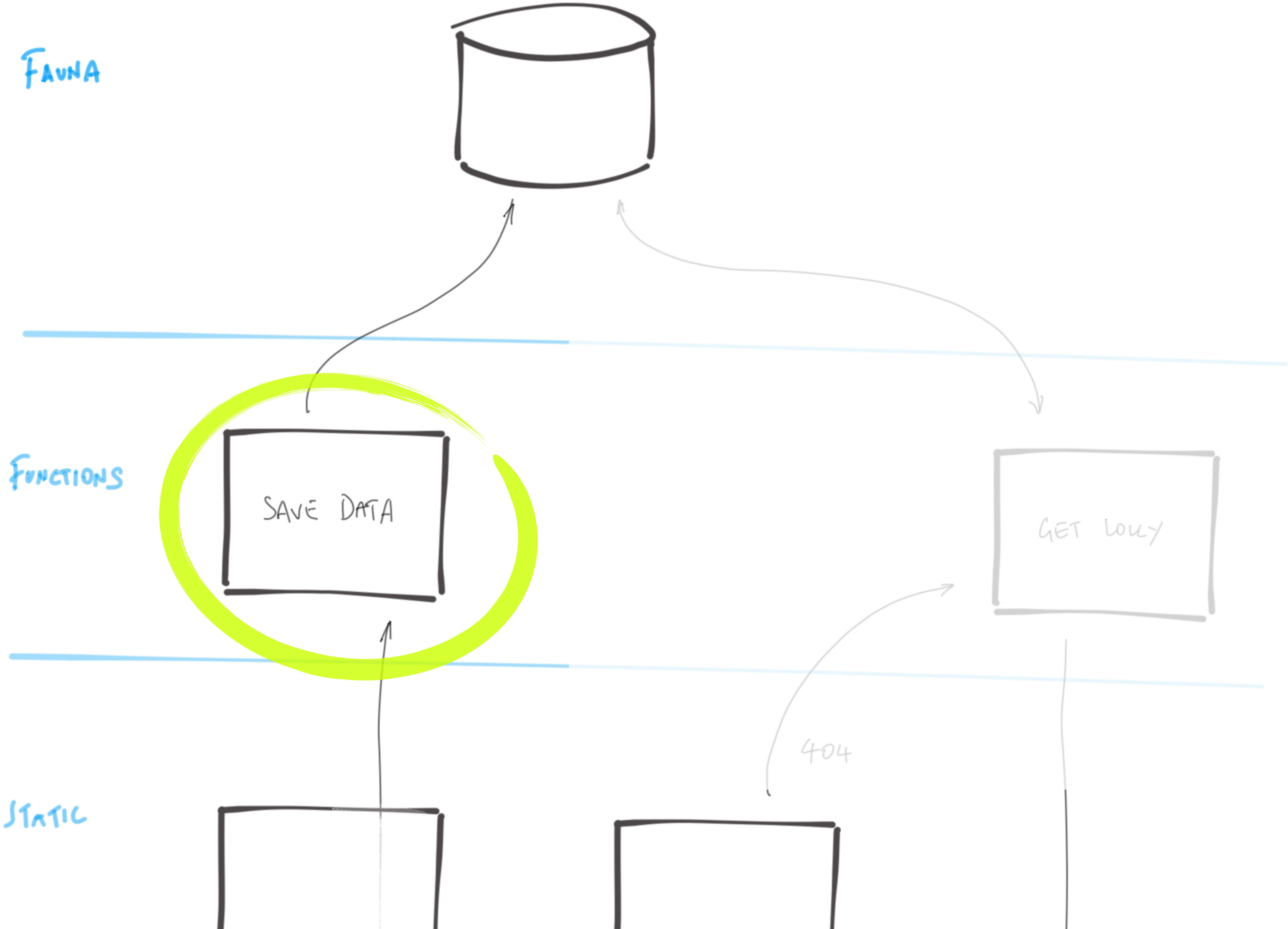
New lolly in the freezer: **https://api.netlify.com/build_hooks/5d46fa20da4a1b70047f2f04**

Learn more about build hooks in the docs ↗

Build image selection

Select a different build image to change the operating system and supported software versions in the environment where our buildbot builds your site.

Build image: **Ubuntu Xenial 16.04 (default)**


FAUNA
FUNCTIONS
SAVE DATA
GET LOLLY
404
STATIC

```
const faunadb = require('faunadb');
const shortid = require('shortid');
const querystring = require('querystring');
const axios = require('axios');
const q = faunadb.query
const client = new faunadb.Client({
  secret: process.env.FAUNADB_SERVER_SECRET
})
exports.handler = (event, context, callback) => {
  const data = querystring.parse(event.body);
  const uniquePath = shortid.generate();
  data.lollyPath = uniquePath;
  const lolly = {
    data: data
  };
  client.query(q.Create(q.Ref('classes/lollies'), lolly))
    .then((response) => {
      axios.post('https://api.netlify.com/build_hooks/5d46fa20da4a1b70047f2f04')
      .then(function (response) {
        console.log(response);
      })
      .catch(function (error) {
        console.log(error);
      });
      return callback(null, {
        body: JSON.stringify(response),
        statusCode: 302,
        headers: {
           Location: `/lolly/${uniquePath}`,
        }
      });
    }).catch((error) => {
      return callback(null, {
        statusCode: 400,
        body: JSON.stringify(error)
      });
    });
}
```

AUTHENTICATE
WITH THE DB

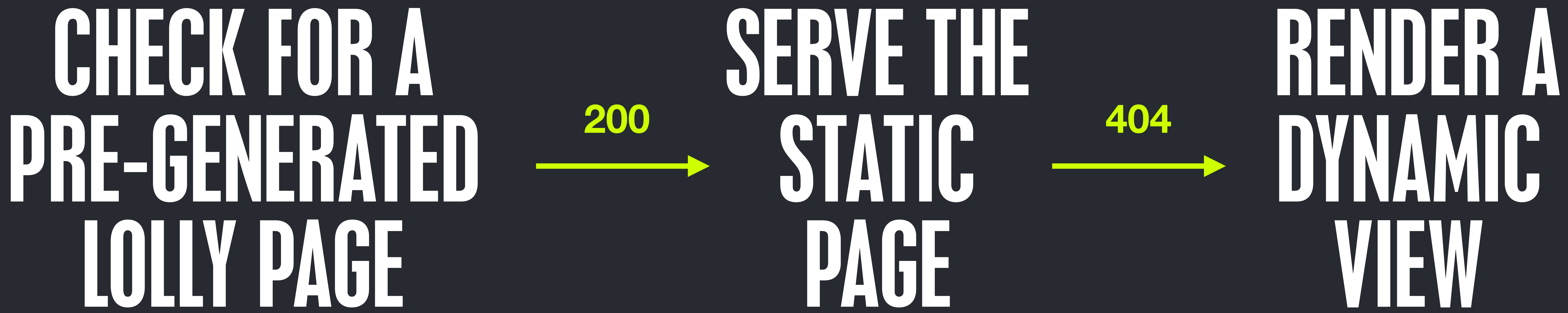
POST THE DATA

REBUILD

SEND THE USER
TO CHECK THE
FREEZER
FOR A LOLLY

"CHECK THE FREEZER"? WUT???!?

ALL OF YOU, POSSIBLY



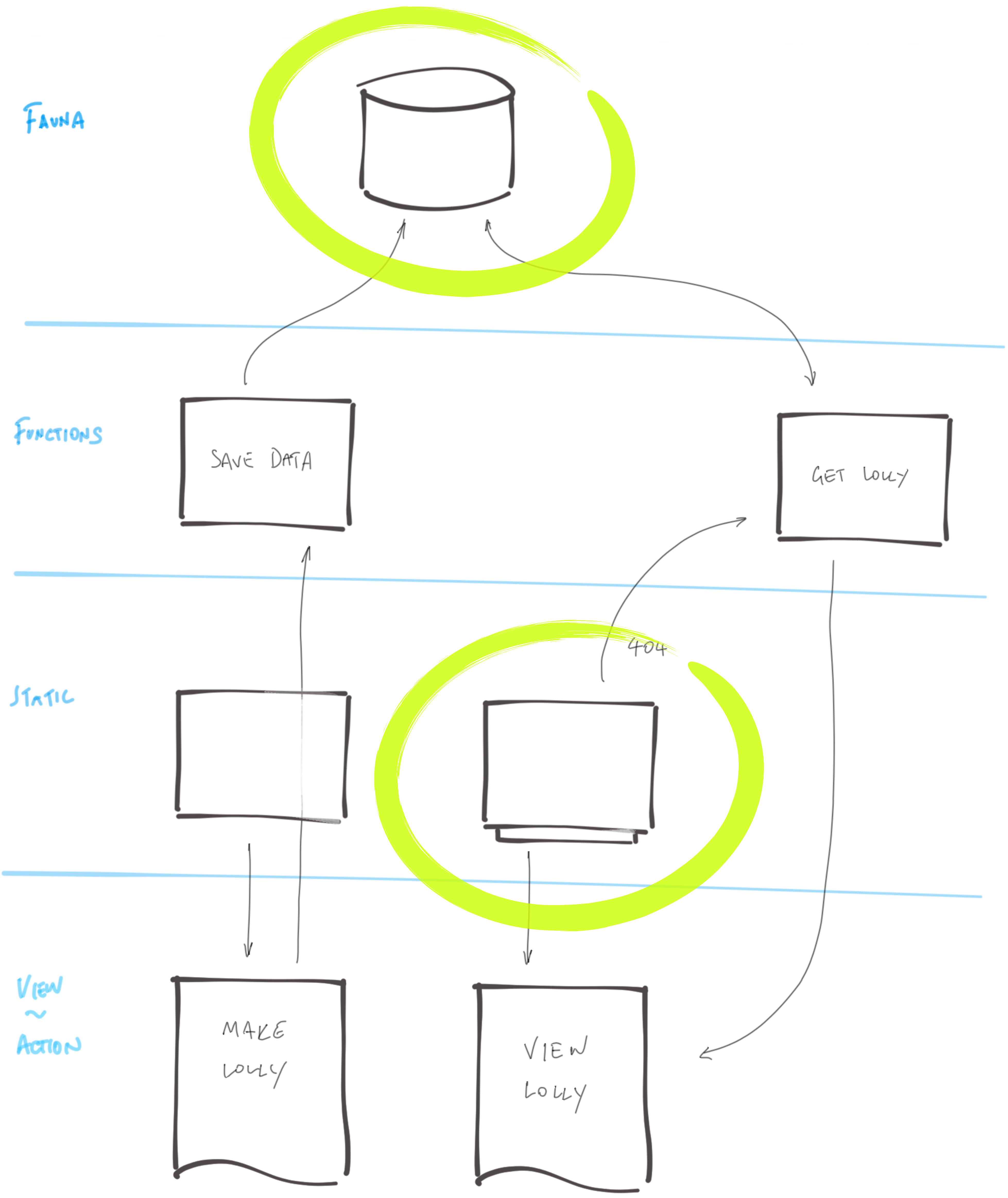
CHECK FOR A PRE-GENERATED LOLLY PAGE

200

SERVE THE STATIC PAGE

404

RENDER A DYNAMIC VIEW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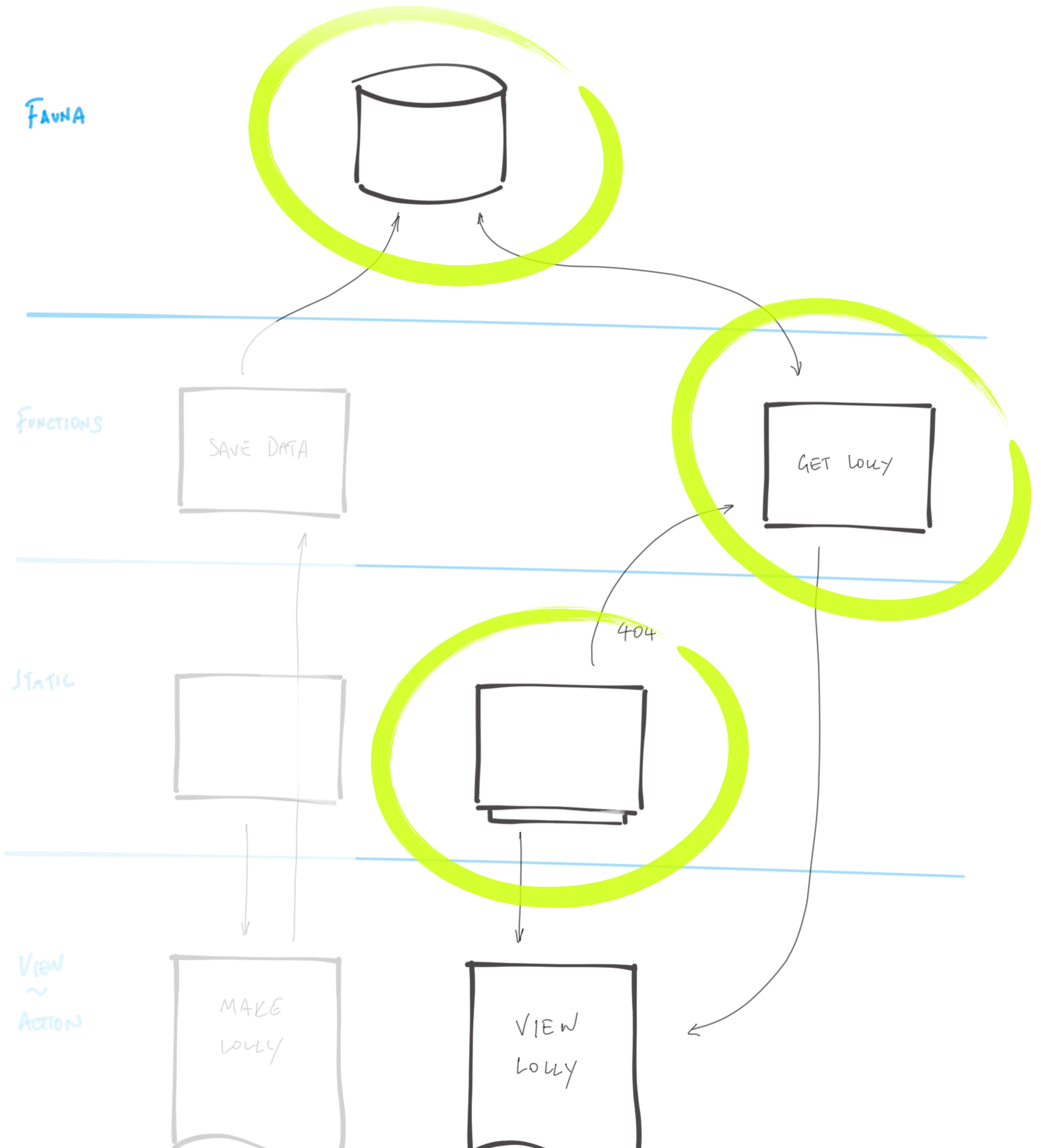
FAUNA
FUNCTIONS
SAVE DATA
GET LOLLY
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404
VIEW ~ ACTION
MAKE LOLLY
VIEW LOLLY

```
const faunadb = require('faunadb');
const pageTemplate = require('./lollyTemplate.js');

const q = faunadb.query;
const client = new faunadb.Client({
  secret: process.env.FAUNADB_SERVER_SECRET
});

exports.handler = (event, context, callback) => {
  const path = event.queryStringParameters.id.replace("/", "");
  client.query(
    q.Get(q.Match(q.Index("lolly_by_path"), path))
  ).then((response) => {
    return callback(null, {
      statusCode: 200,
      body: pageTemplate(response.data)
    });
  }).catch((error) => {
    return callback(null, {
      body: JSON.stringify(error),
      statusCode: 301,
      headers: {
        Location: `/melted/index.html`,
      }
    });
  });
}
```

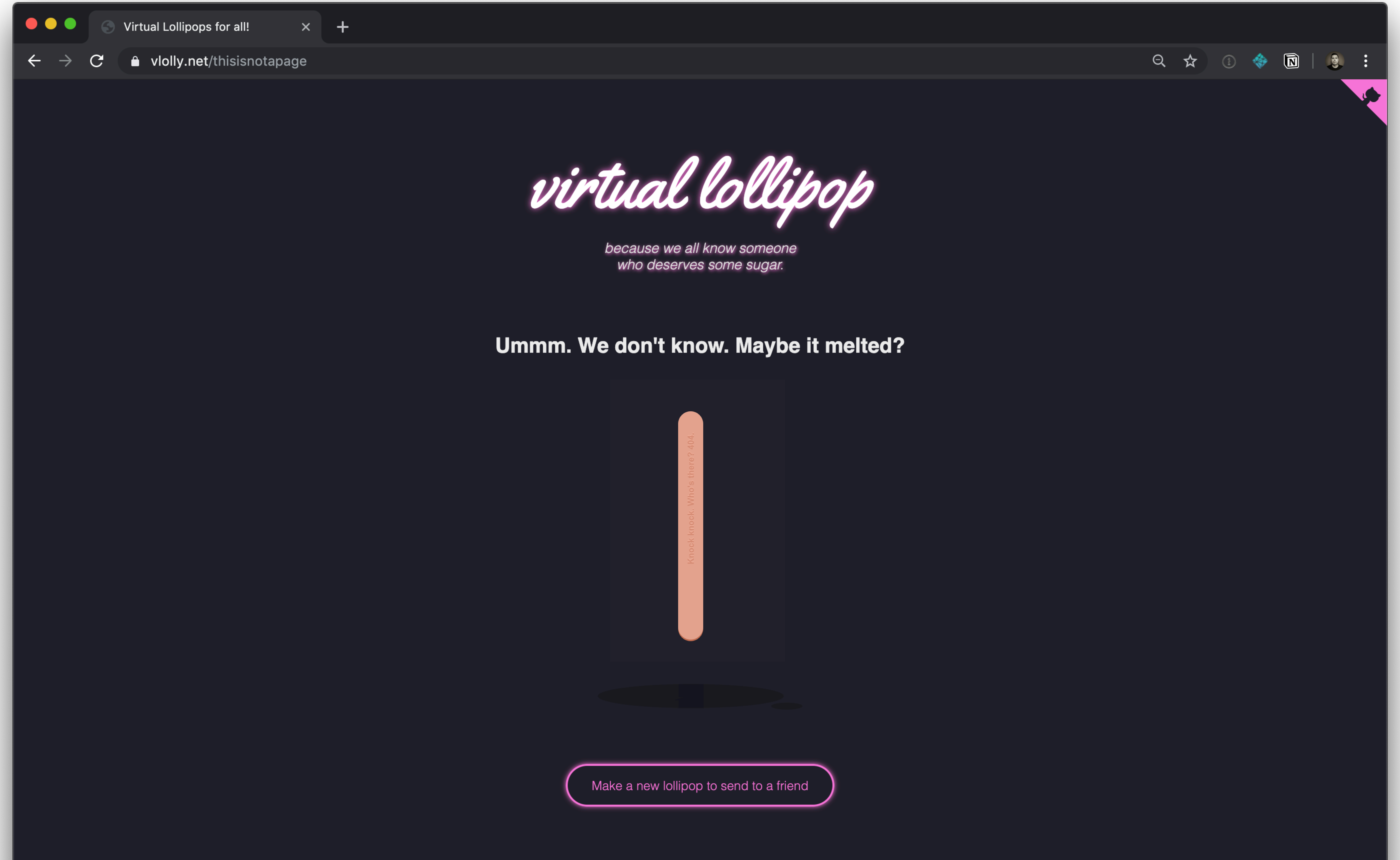
GET PAGE AS A JAVASCRIPT TEMPLATE LITERAL

AUTHENTICATE WITH THE DB

GET THE LOLLY DATA

SERVE LOLLY VIEW

NO LOLLY. BREAK THE BAD NEWS



Virtual Lollipops for all!
vlolly.net/thisisnotapage

virtual lollipop

because we all know someone who deserves some sugar.

Ummm. We don't know. Maybe it melted?

Knock knock. Who's there? 404.

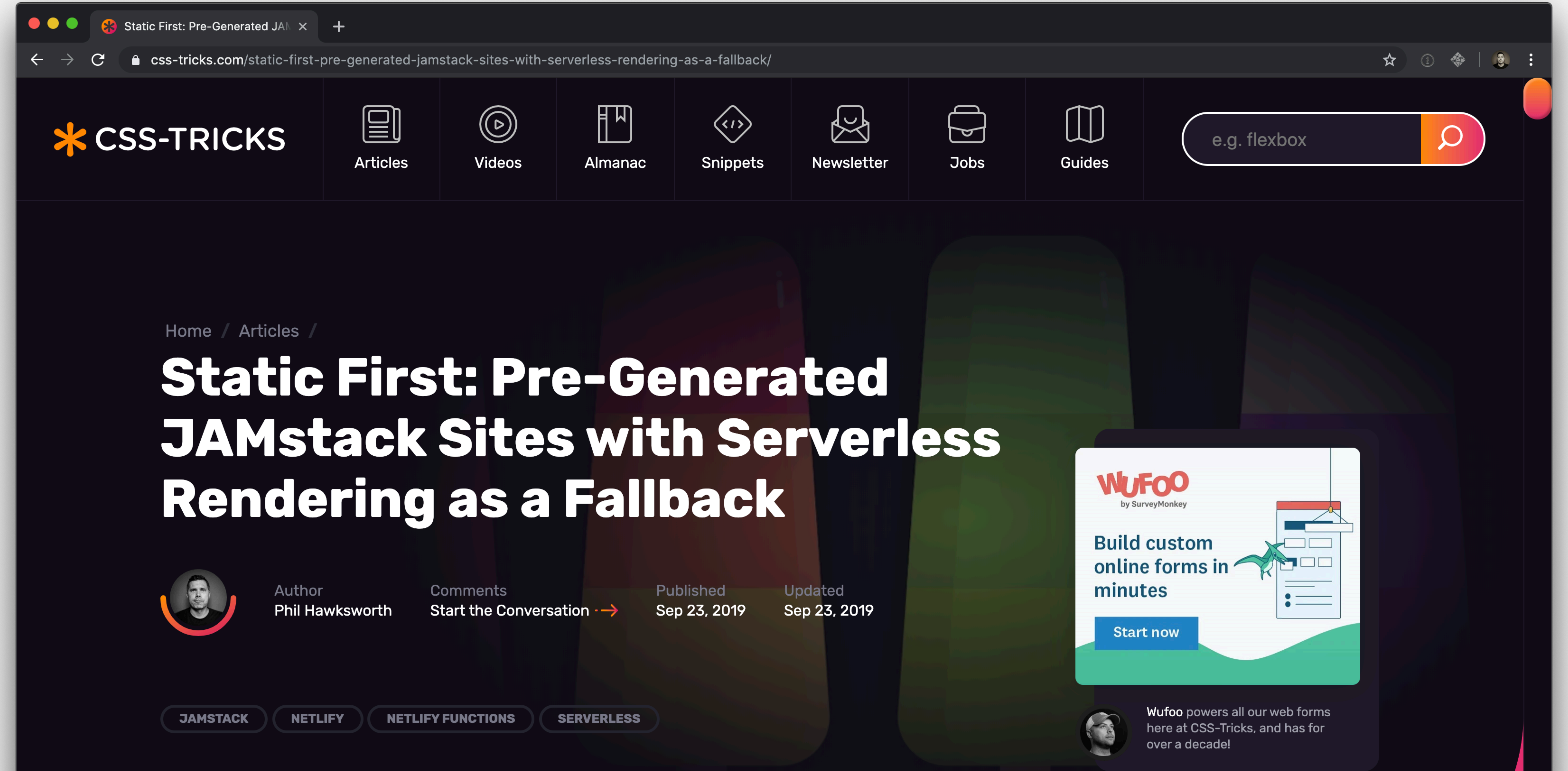
Make a new lollipop to send to a friend

Knock knock. Who's there? 404.

a quick demo?

FINDTHAT.AT/LOLLYTRICKS

https://css-tricks.com/static-first-pre-generated-jamstack-sites-with-serverless-rendering-as-a-fallback/


Static First: Pre-Generated JA
css-tricks.com/static-first-pre-generated-jamstack-sites-with-serverless-rendering-as-a-fallback/
CSS-TRICKS
Articles
Videos
Almanac
Snippets
Newsletter
Jobs
Guides
e.g. flexbox

Home / Articles /

Static First: Pre-Generated JAMstack Sites with Serverless Rendering as a Fallback

Author Phil Hawksworth

Comments Start the Conversation →

Published Sep 23, 2019

Updated Sep 23, 2019

JAMSTACK NETLIFY NETLIFY FUNCTIONS SERVERLESS

WUFOO by SurveyMonkey
Build custom online forms in minutes
Start now
Wufoo powers all our web forms here at CSS-Tricks, and has for over a decade!

enablers

CUSTOM 404 ROUTING

```
[[redirects]]
  from = "/lolly/*"
  to = "/.netlify/functions/showLolly?id=:splat"
  status = 302
  force = "false"
```

EVENTS, TRIGGERS AND AUTOMATION

DATABASE
AS A SERVICE

FUNCTIONS AS A SERVICE

PRE-RENDERING

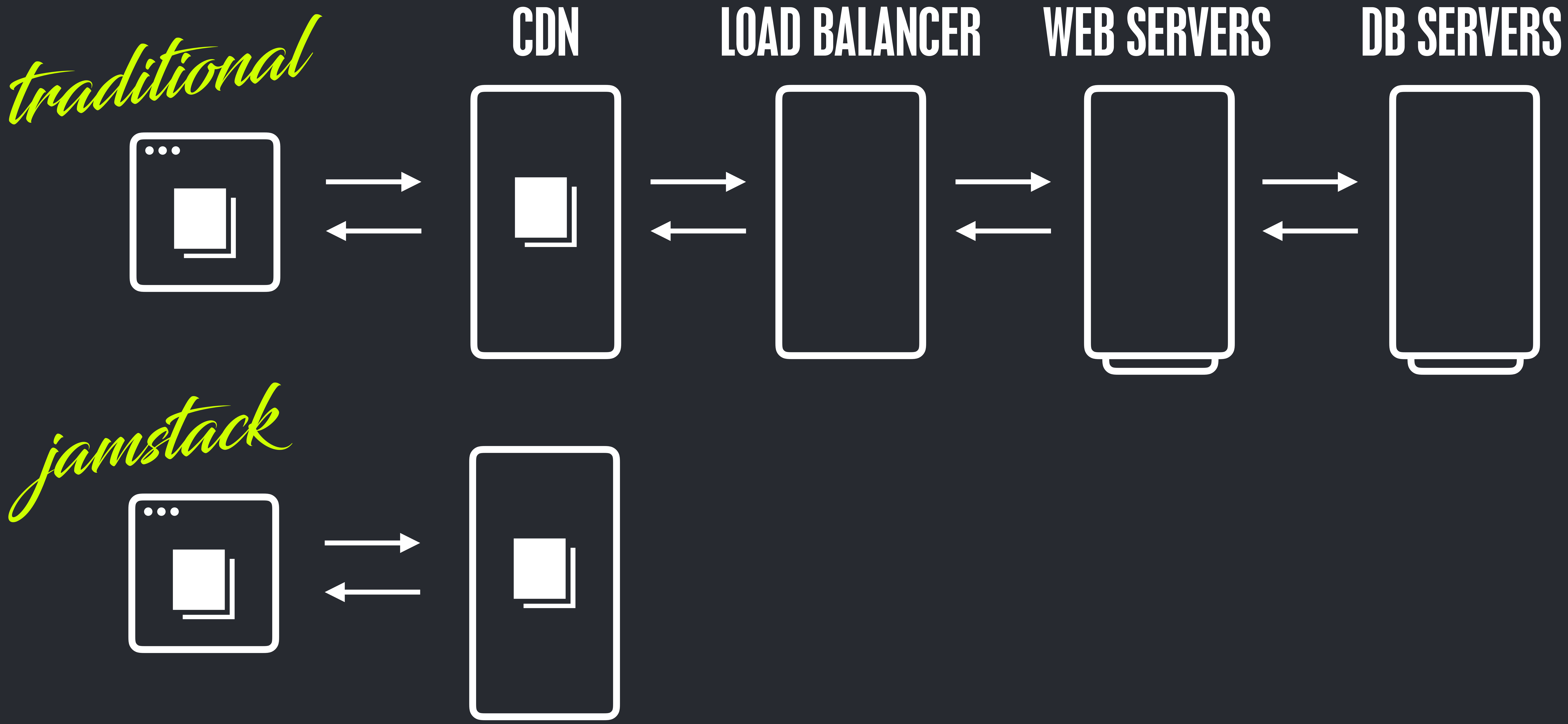
SERVERLESS RENDERING

A SHIFT

from

SEEKING TO OPTIMIZE BY ADDING STATIC LAYERS *to*

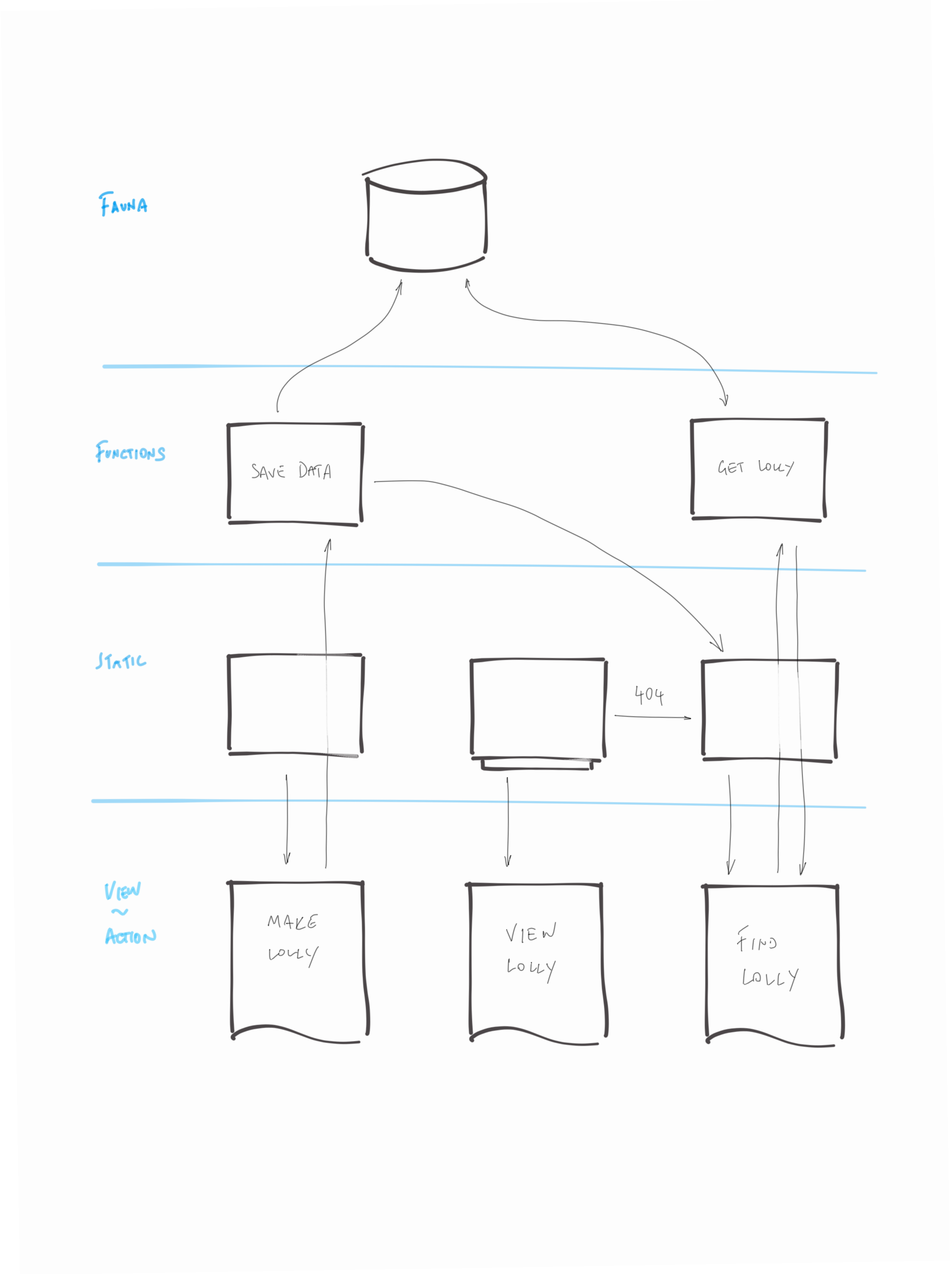
STATIC FIRST
ENHANCING IF REQUIRED


traditional
CDN
LOAD BALANCER
WEB SERVERS
DB SERVERS
jamstack

SIMPLIFYING IS NOT DUMBING DOWN

SIMPLIFYING
IS NOT DUMBING DOWN
IT LETS US FOCUS
ON WHAT REALLY IS
IMPORTANT

EASIER TO REASON ABOUT



WHAT SHALL WE MAKE?

STATIC SITE GENERATORS

staticgen.com

NETLIFY

www.netlify.com

VARIOUS RELATED RESOURCES FROM CHRIS COYIER

https://serverless.css-tricks.com/

CITRIX PRESENTATION FROM JAMSTACKCONF NYC

youtube.com/watch?v=kvS5h5domf0

JAMSTACK CONFERENCE
jamstackconf.com

HEADLESS / DECOUPLED CMS
headlesscms.org

ABOUT THE JAMSTACK / COMMUNITY
jamstack.org

BUILDING A URL SHORTENER WITH NETLIFY REDIRECTS
findthat.at

SO I GUESS WE'RE FULL STACK NOW?

https://www.youtube.com/watch?v=IFOfQsi5ye0

MODERN WEB DEVELOPMENT ON THE JAMSTACK

netlify.com/oreilly-jamstack/

JAMSTACK SLACK

jamstack.org/slack

JAMSTACK COMMENTS EXAMPLE

jamstack-comments.netlify.com

JAMSTACK SLACK

jamstack.org/slack

FINDTHAT.AT / SERVERED

THANKS

@PHILHAWKSWORTH