ARE YOU BEING SERVERED? EXPLORING A SERVERLESS WEB

PHIL HAWKSWORTH





Are you being servered?

Nebraska JS, 2019

@philhawksworth





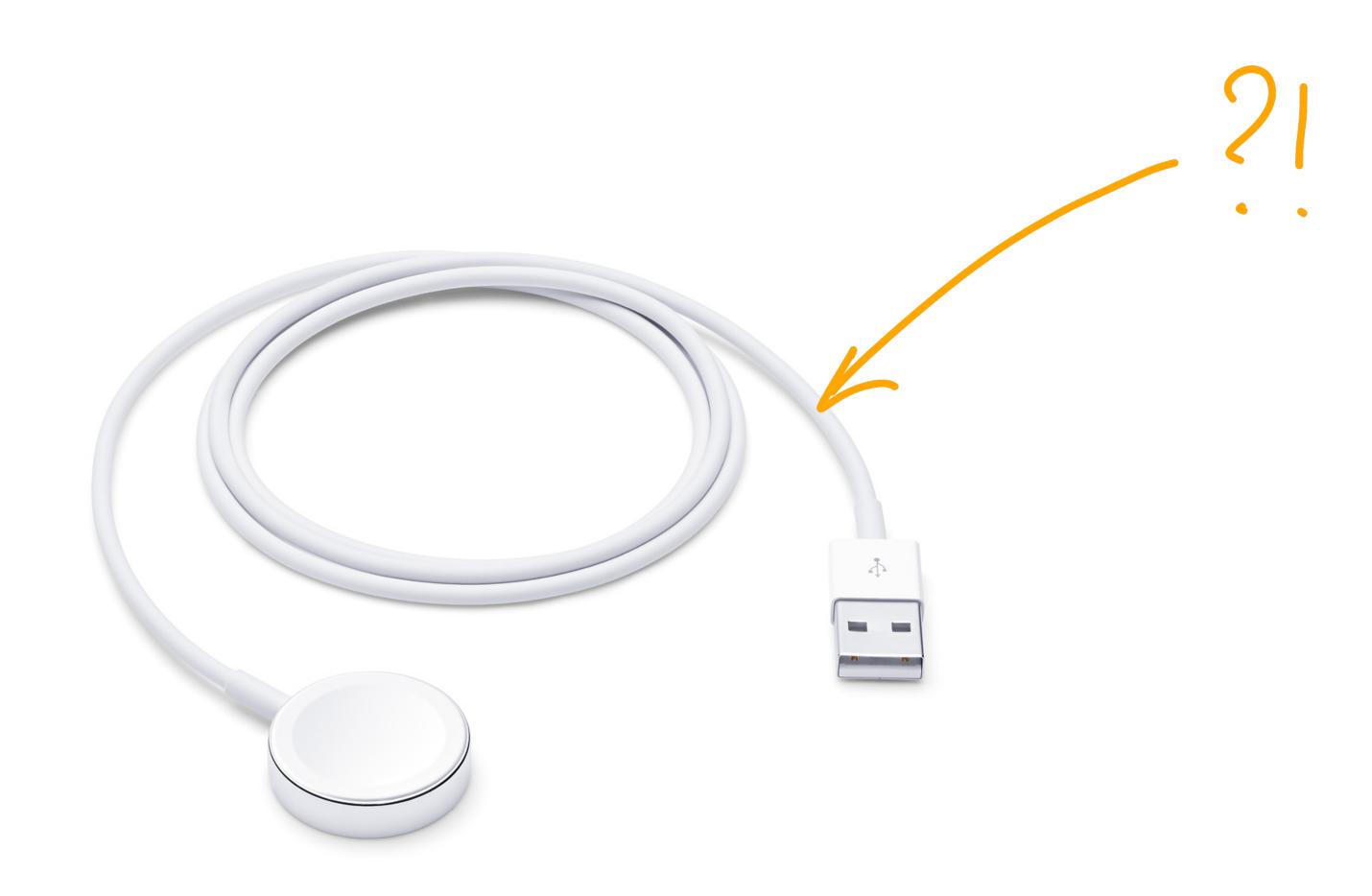




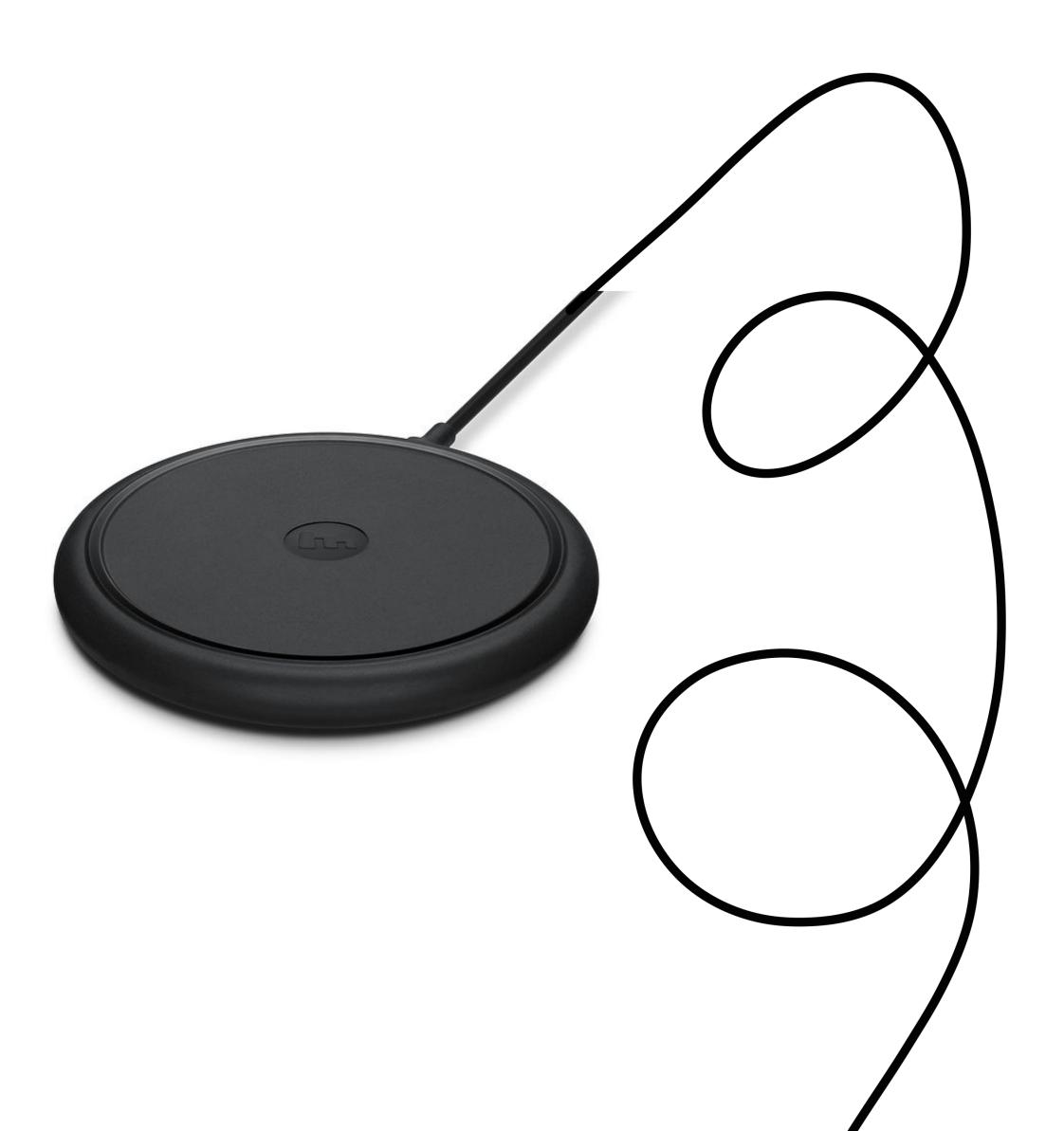
Are you being servered?

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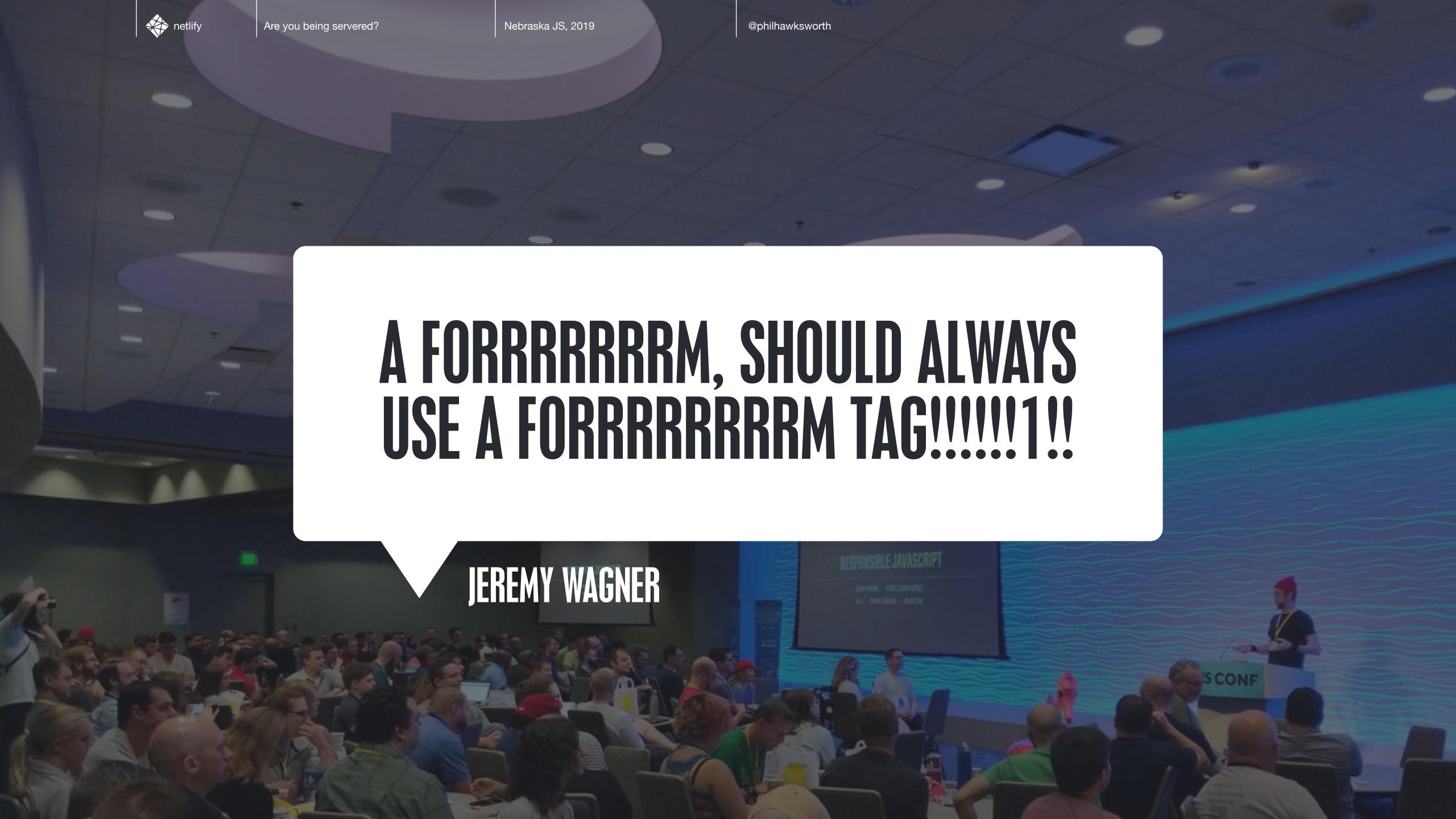
SERVERLESS

FOCUSSING ON THE THINGS YOU CARE ABOUT

Lave to

CONSTRAINTS AND COMPLEXITY AND INFRASTRUCTURE





WHERE TO FOCUS OUR EFFORTS?

Back End Front End

OS Database Servers Server Side Languages APIs Frameworks JavaScript CSS HTML

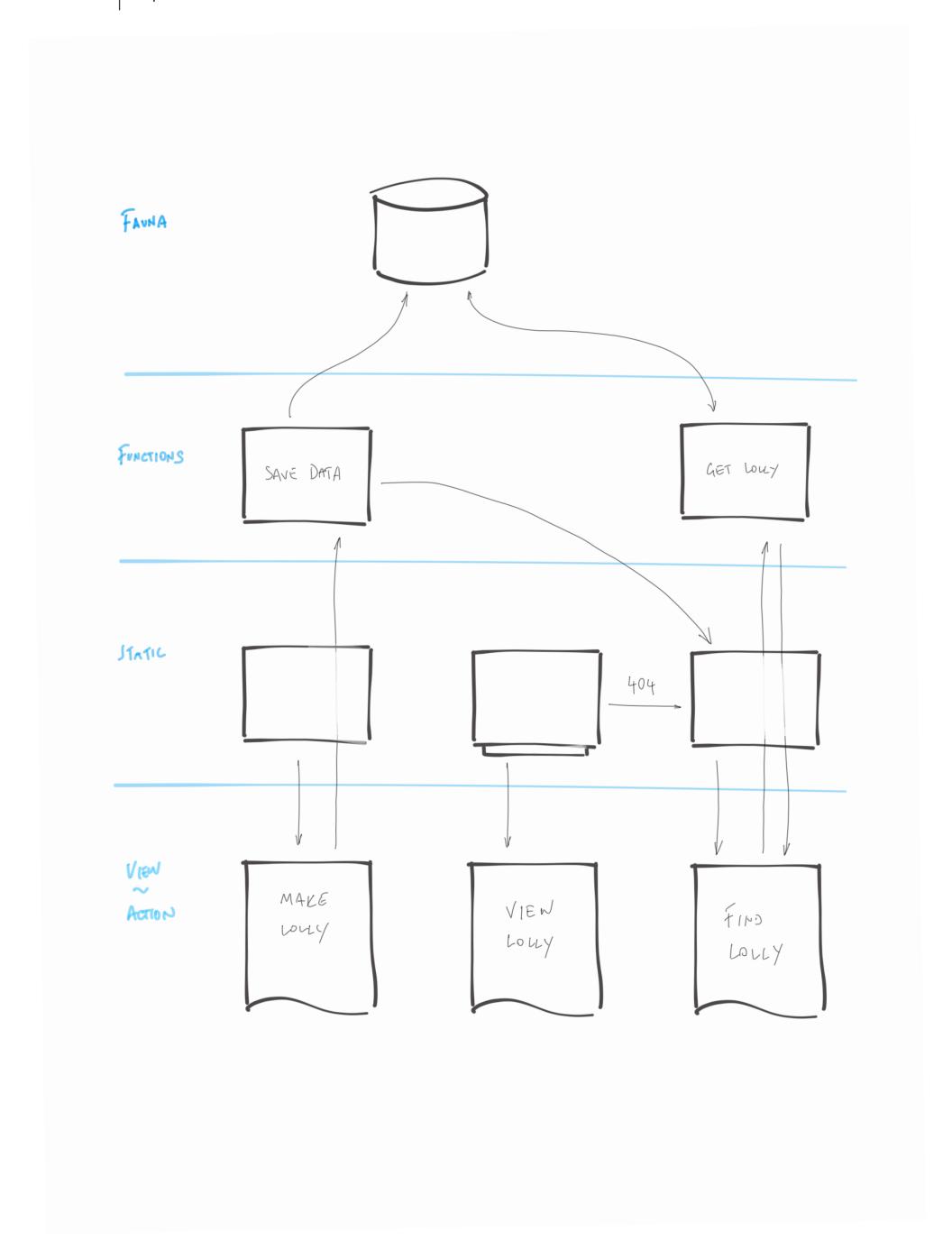
LAMP
Linux Apache MySQL PHP



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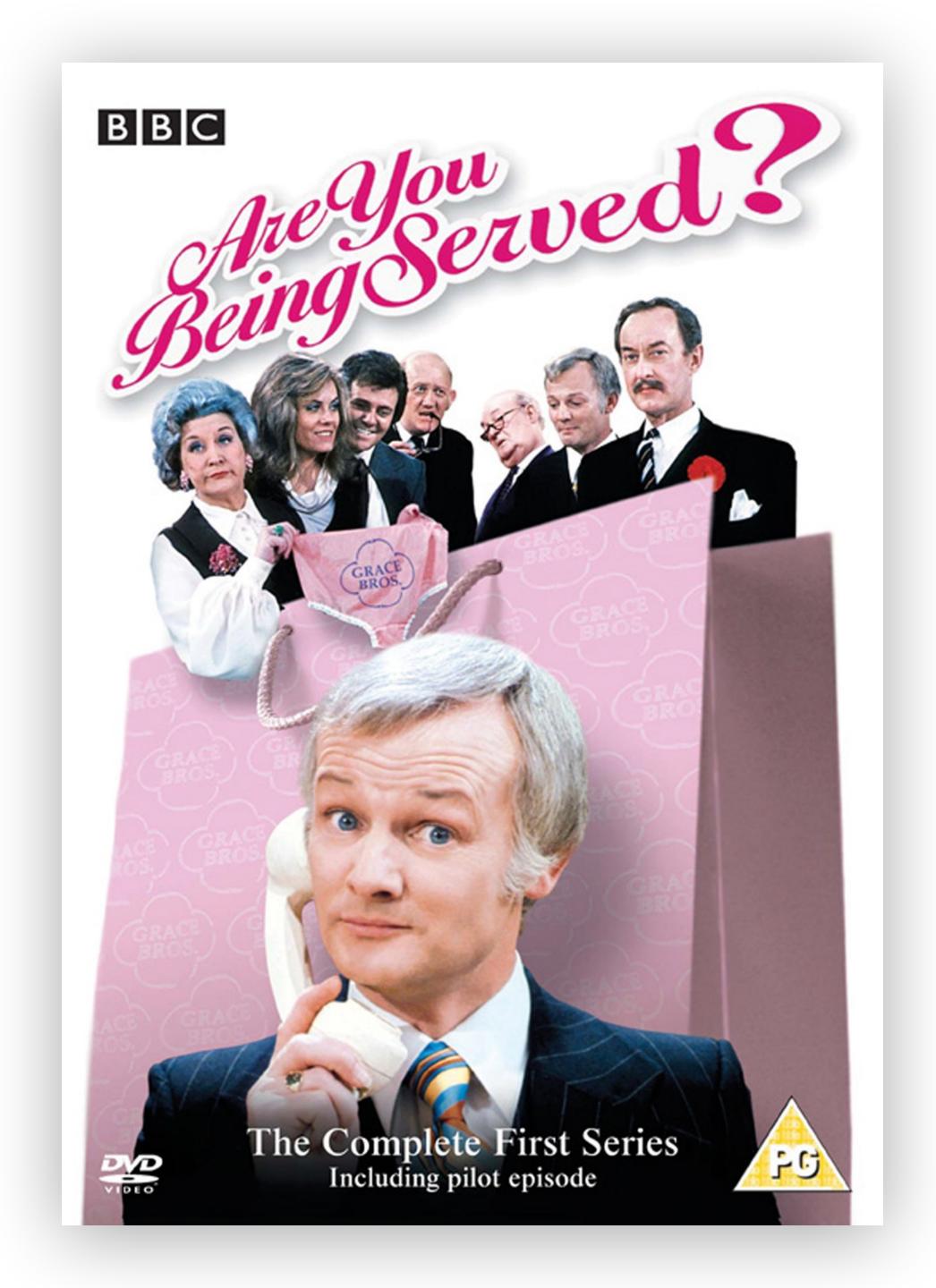
FINDTHAT.AT/JAMSTACK-BOOK

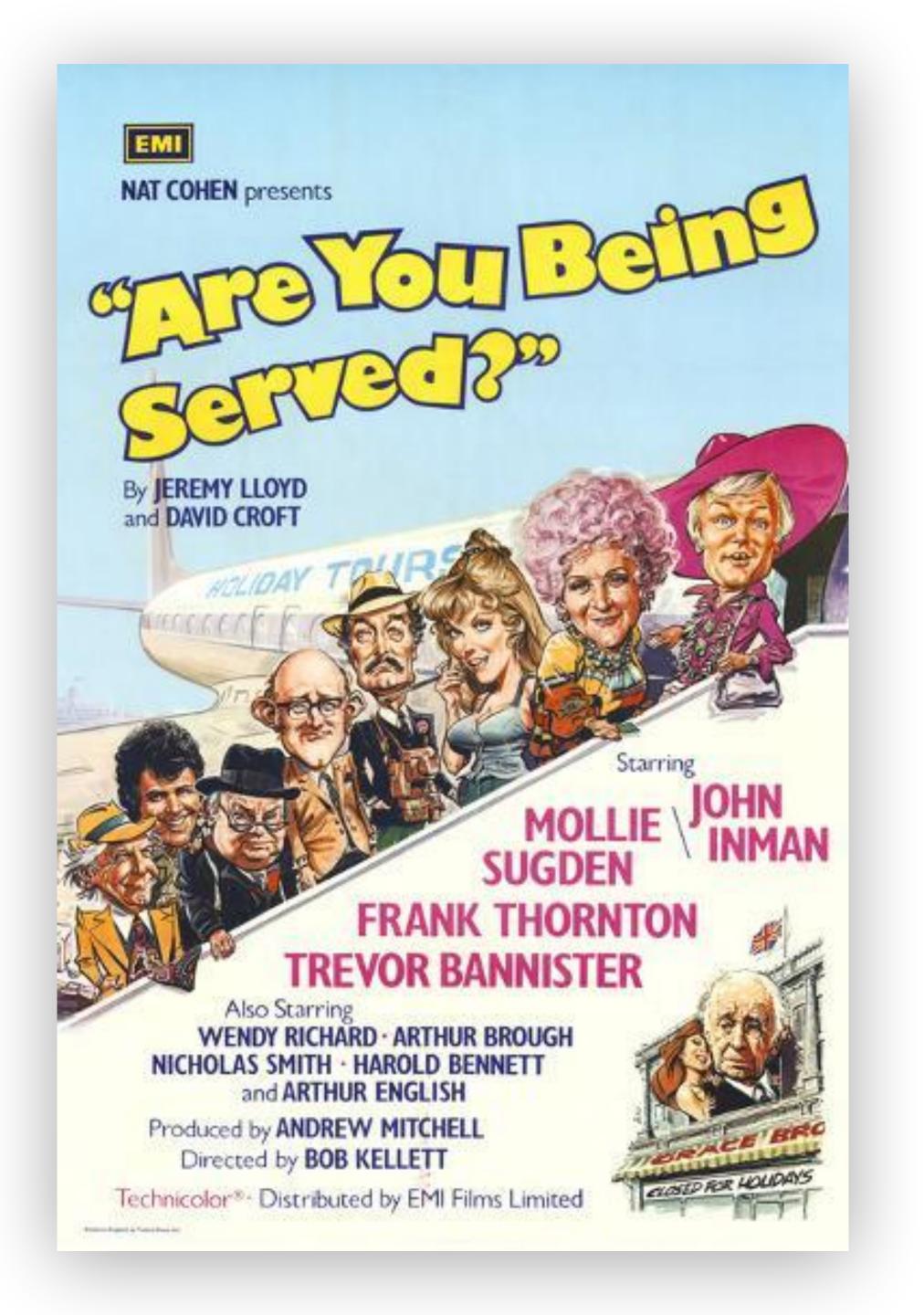
FINDTHAT.AT/SOMETHINGSOMETHING FINDTHAT.AT/NEJS

ARE YOU BEING SERVERED? EXPLORING A SERVERLESS WEB

PHIL HAWKSWORTH











ARE YOU BEING SERVERED? EXPLORING & SERVERLESS WEB

PHIL HAWKSWORTH

FUNCTIONS AS A SERVICE

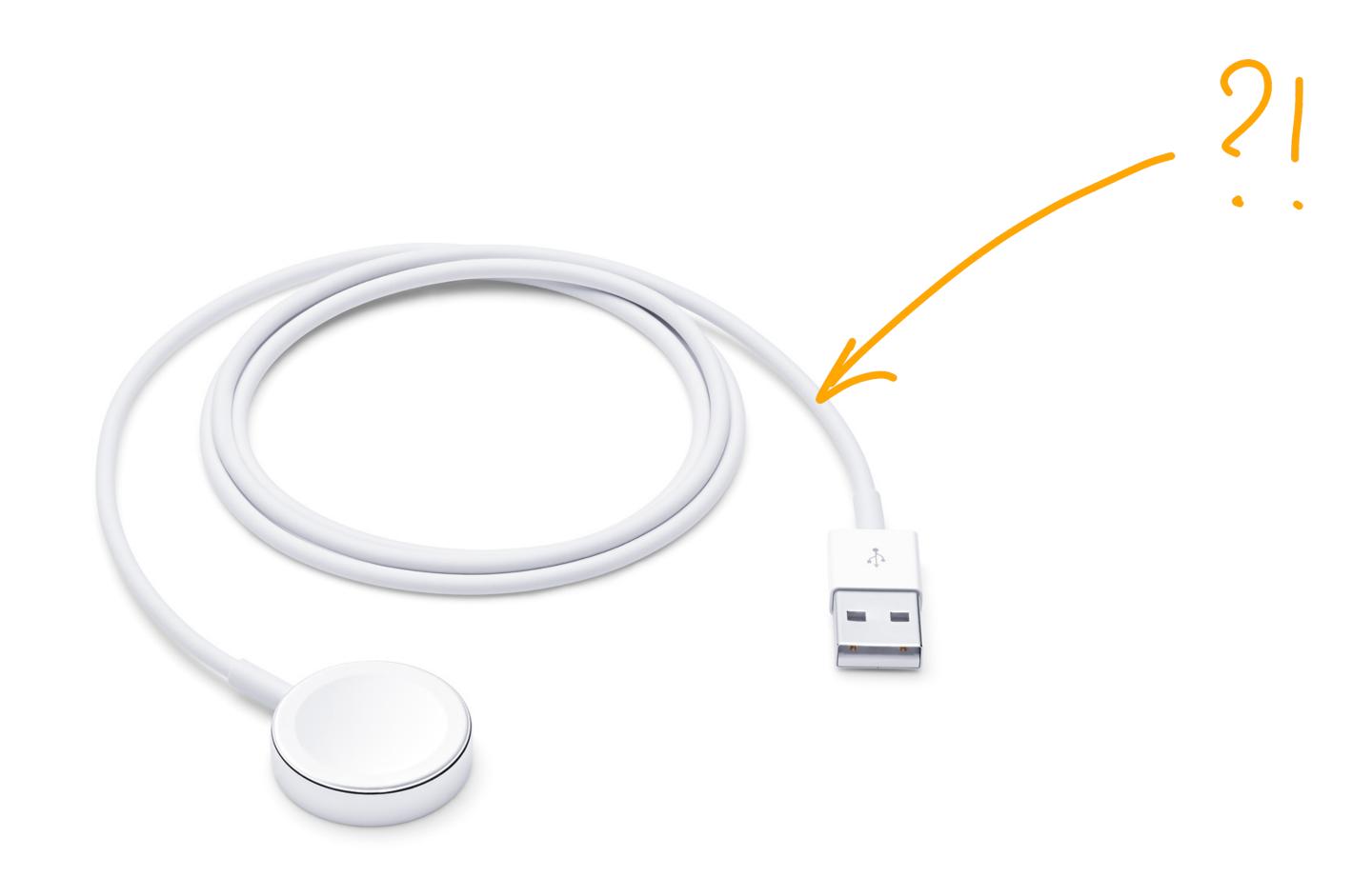
SERVING WEBSITES WITHOUT WEBSERVERS



Are you being servered?

Nebraska JS, 2019

@philhawksworth





STACKS FOR DAYZ

N / LAMP / MAMP / XAMP / ROR / WISA / ME/ Wisa / Mean / Lamp / Mamp / Xamp / Ror /



A modern architecture —

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



Aaron Swartz



netlify

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

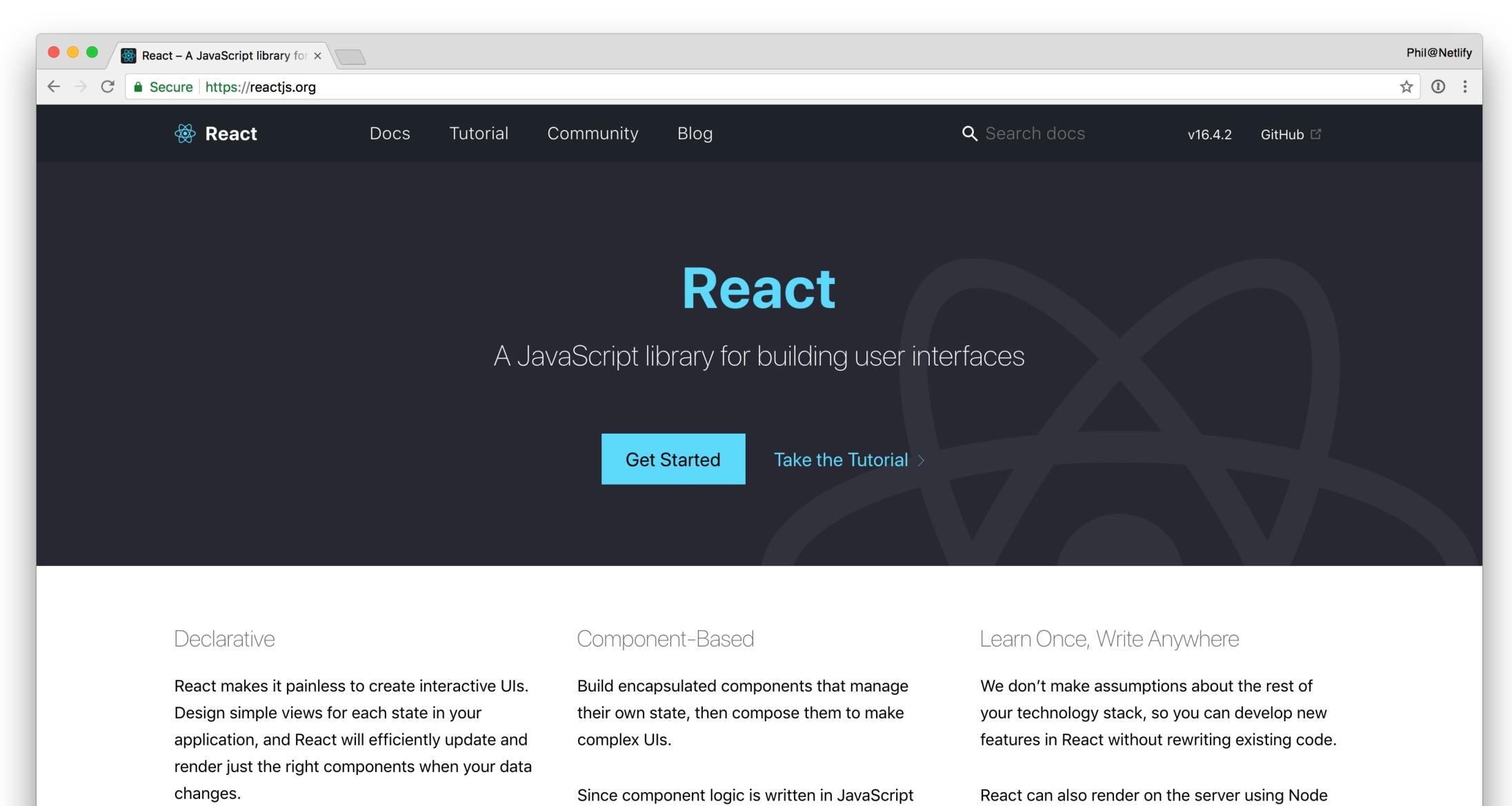
AARON SWARTZ, 2002

TOOLS AND ECOSYSTEM

netlify

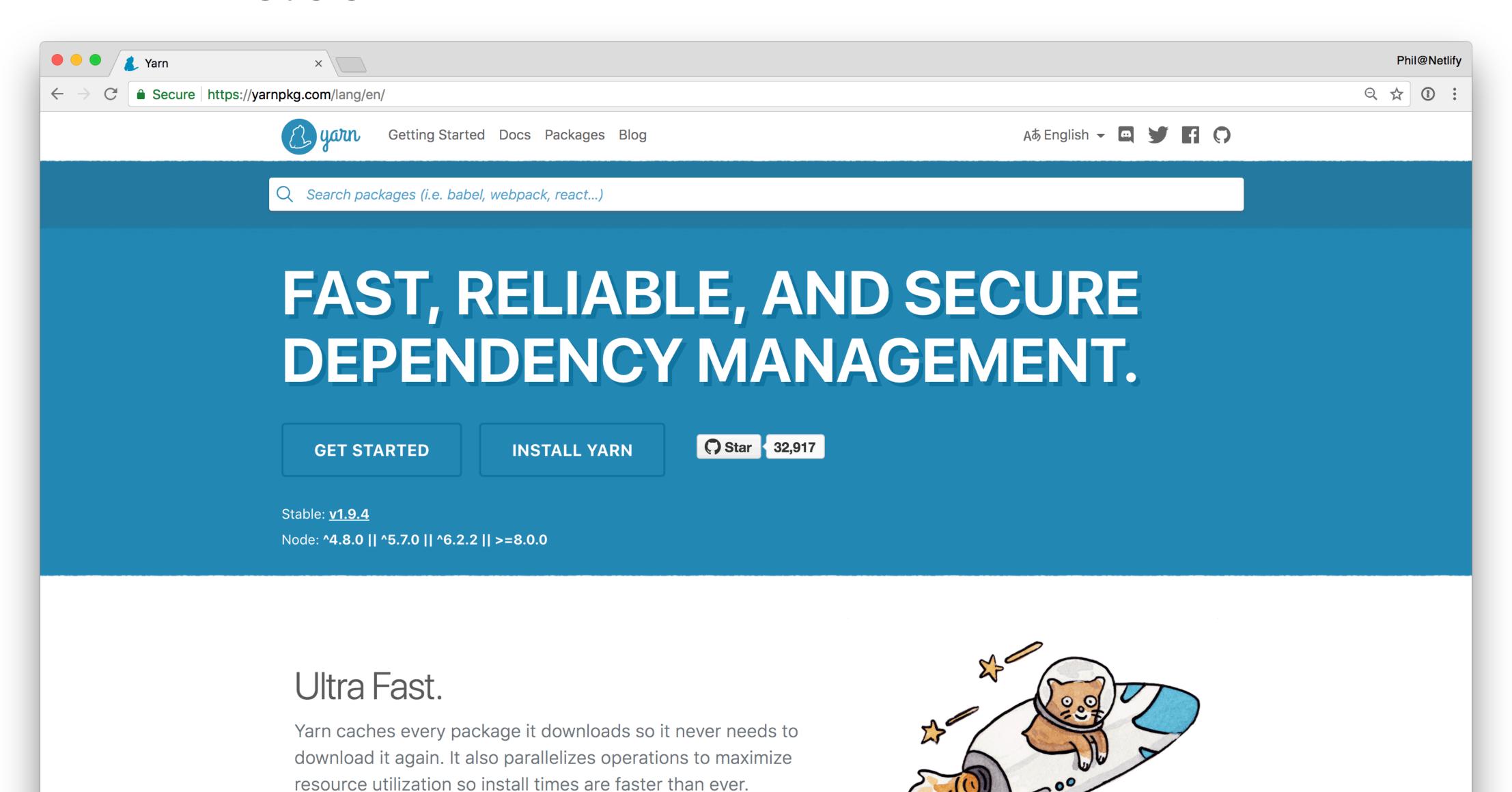
SO... WHAT CAN

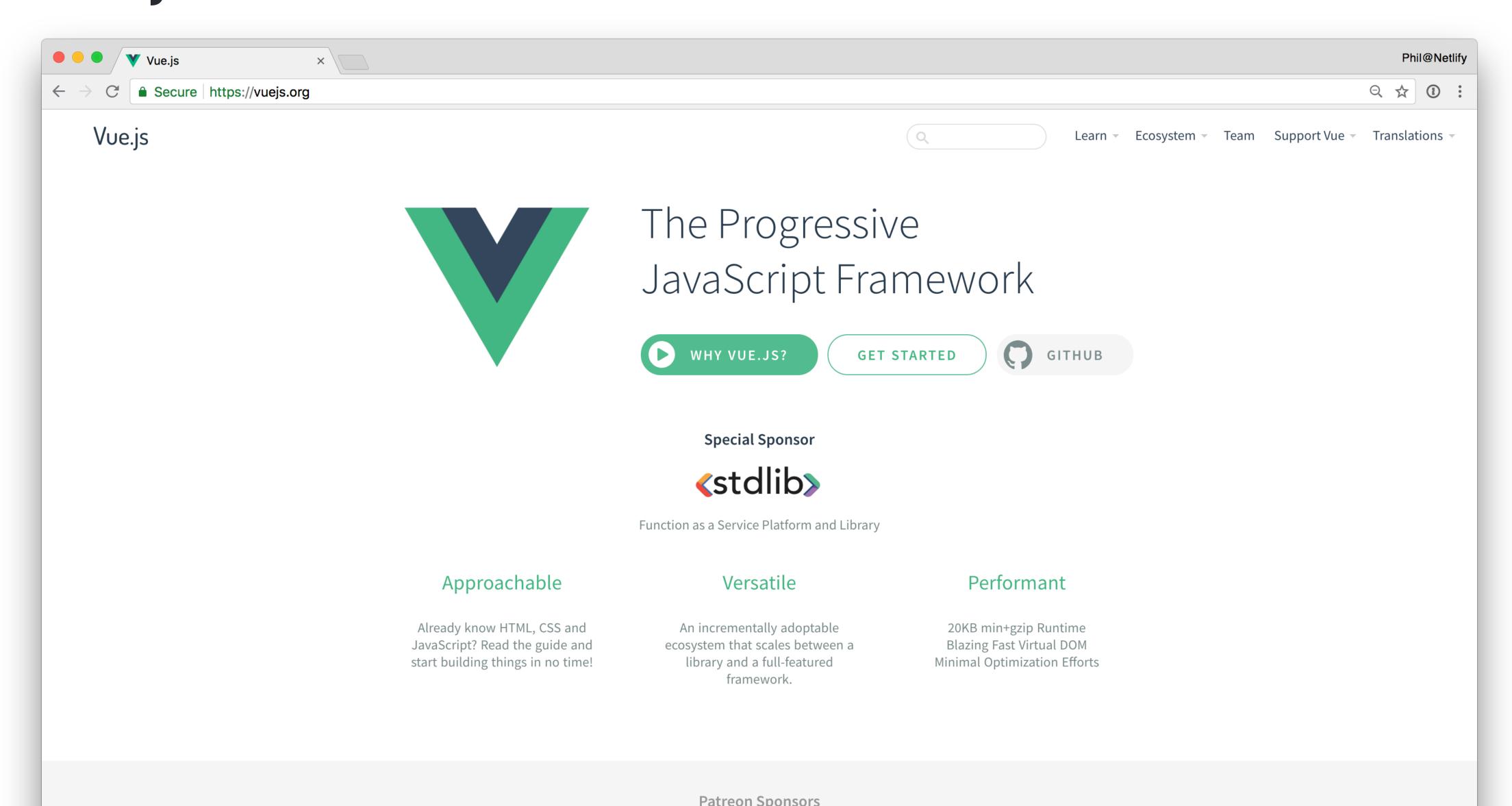
REACTJS.ORG





YARNPKG.COM

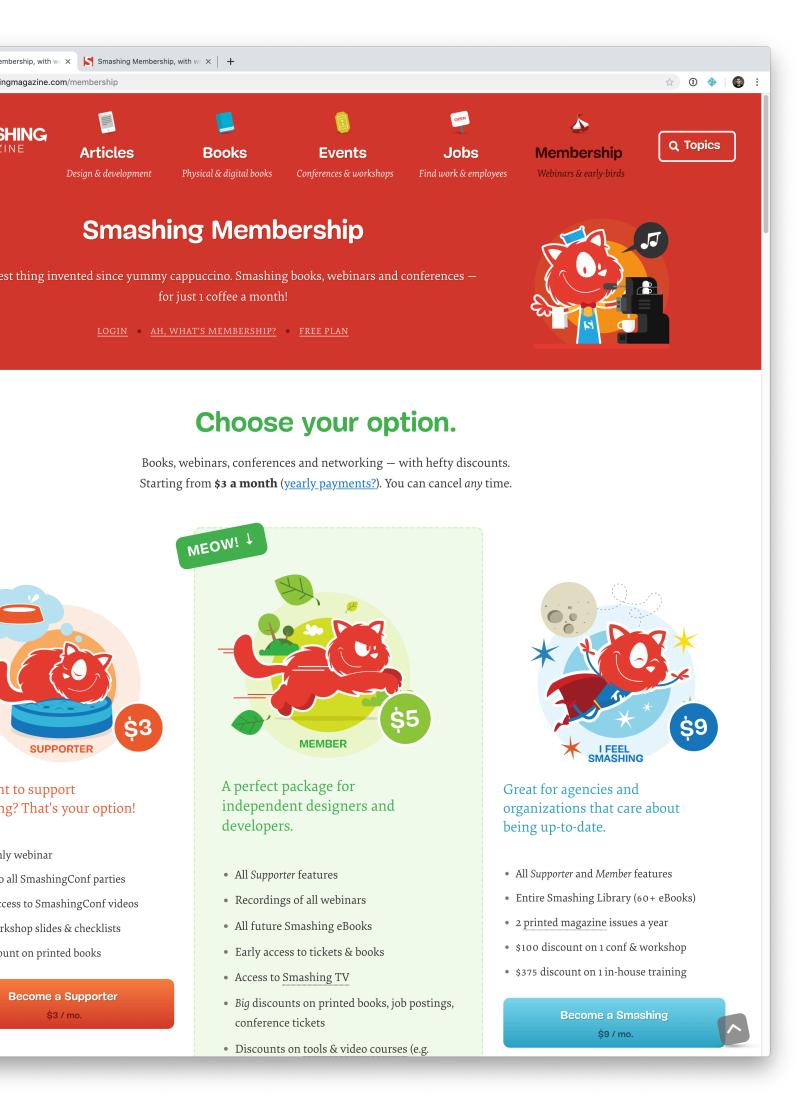


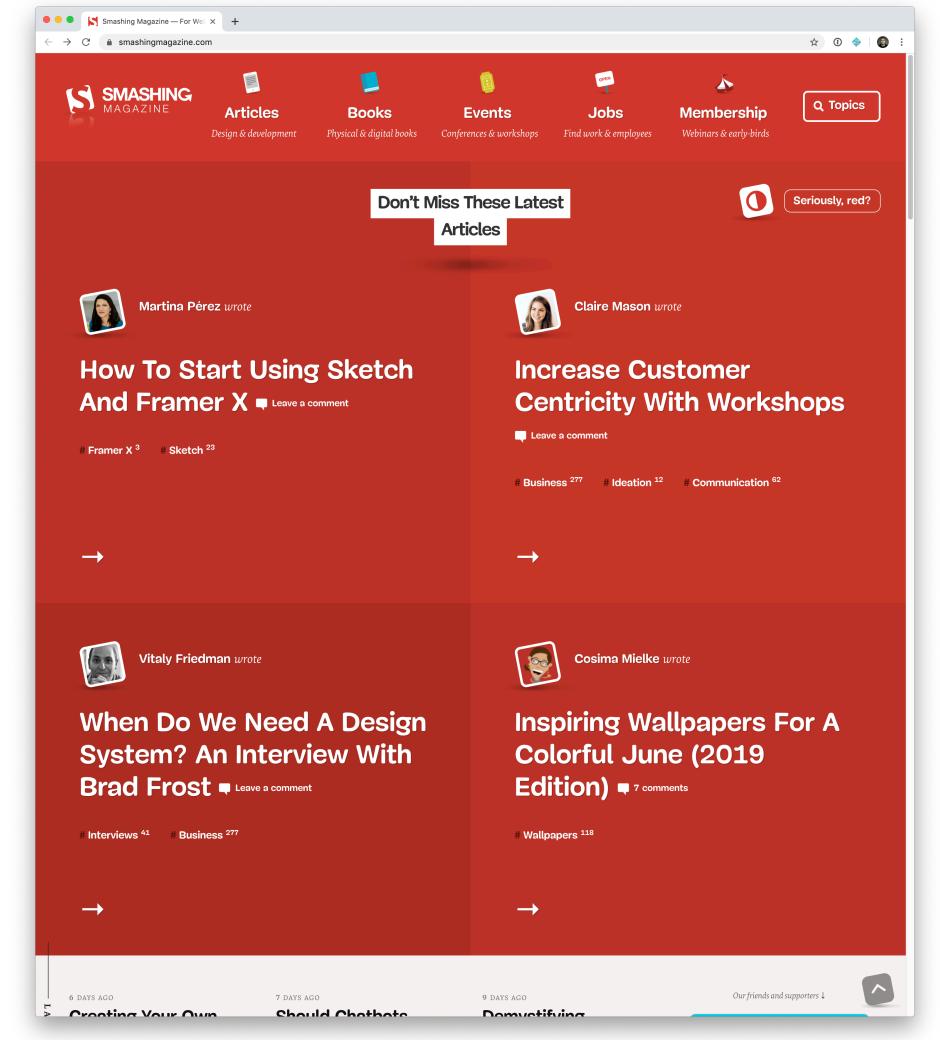


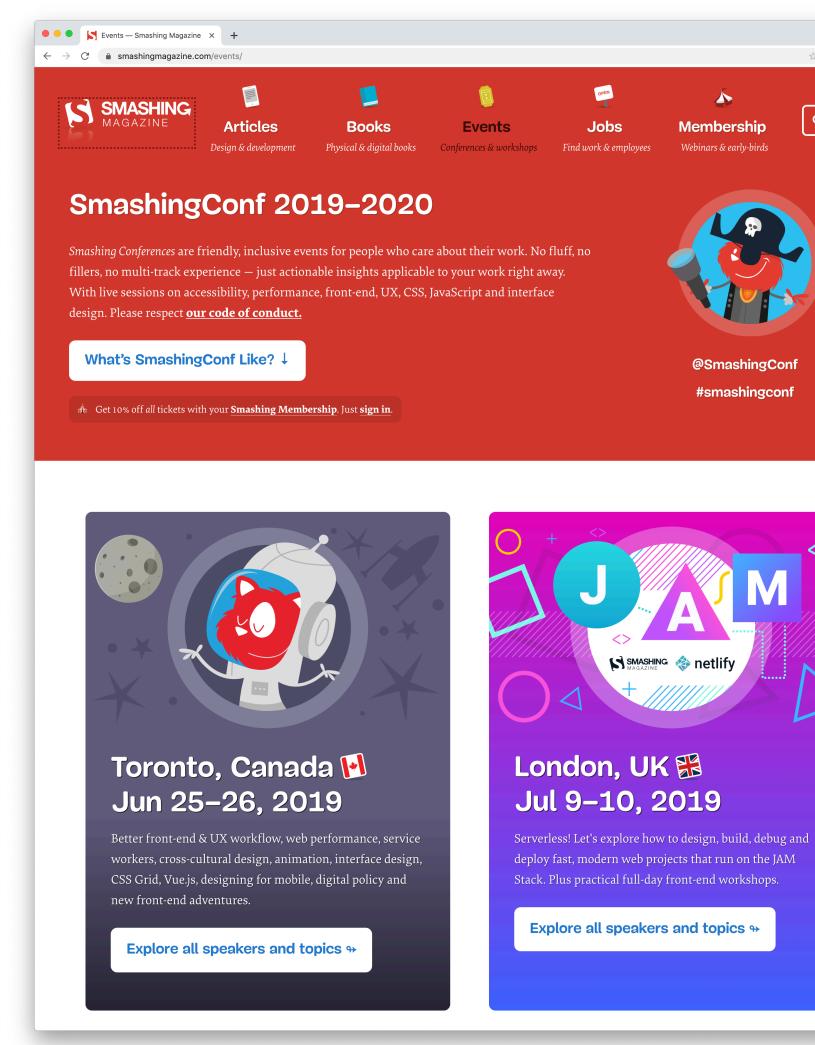
A LITTLE MORE "DYNAMIC"



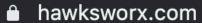
SMASHINGMAGAZINE.COM





















hawksworx

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.

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

July 16th 2019

Reflecting on London's first JAMstack conference

#events , #jamstack , #netlify

A summary of what took place at the first JAMstack conference in London, including my thoughts and a list of the speakers and activities.

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

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 **7**

Add build hook

Build image selection

BETA

PHILIP GOT COCKY

SOME PEOPLE ON THE INTERNET NOTICED



Are you being servered?

Nebraska JS, 2019

@philhawksworth







Zach Leatherman

@zachleat



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

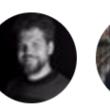
8:54 PM - 19 Jul 2018

30 Likes

































Nebraska JS, 2019





Phil Hawksworth

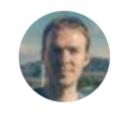
@philhawksworth

Replying to @zachleat @chriscoyier and 2 others

Hold my beer.

10:25 PM - 19 Jul 2018

12 Likes





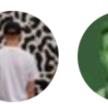














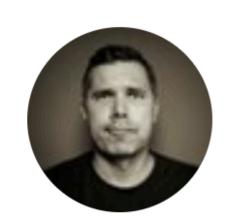












Phil Hawksworth

@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

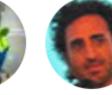


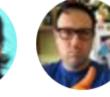












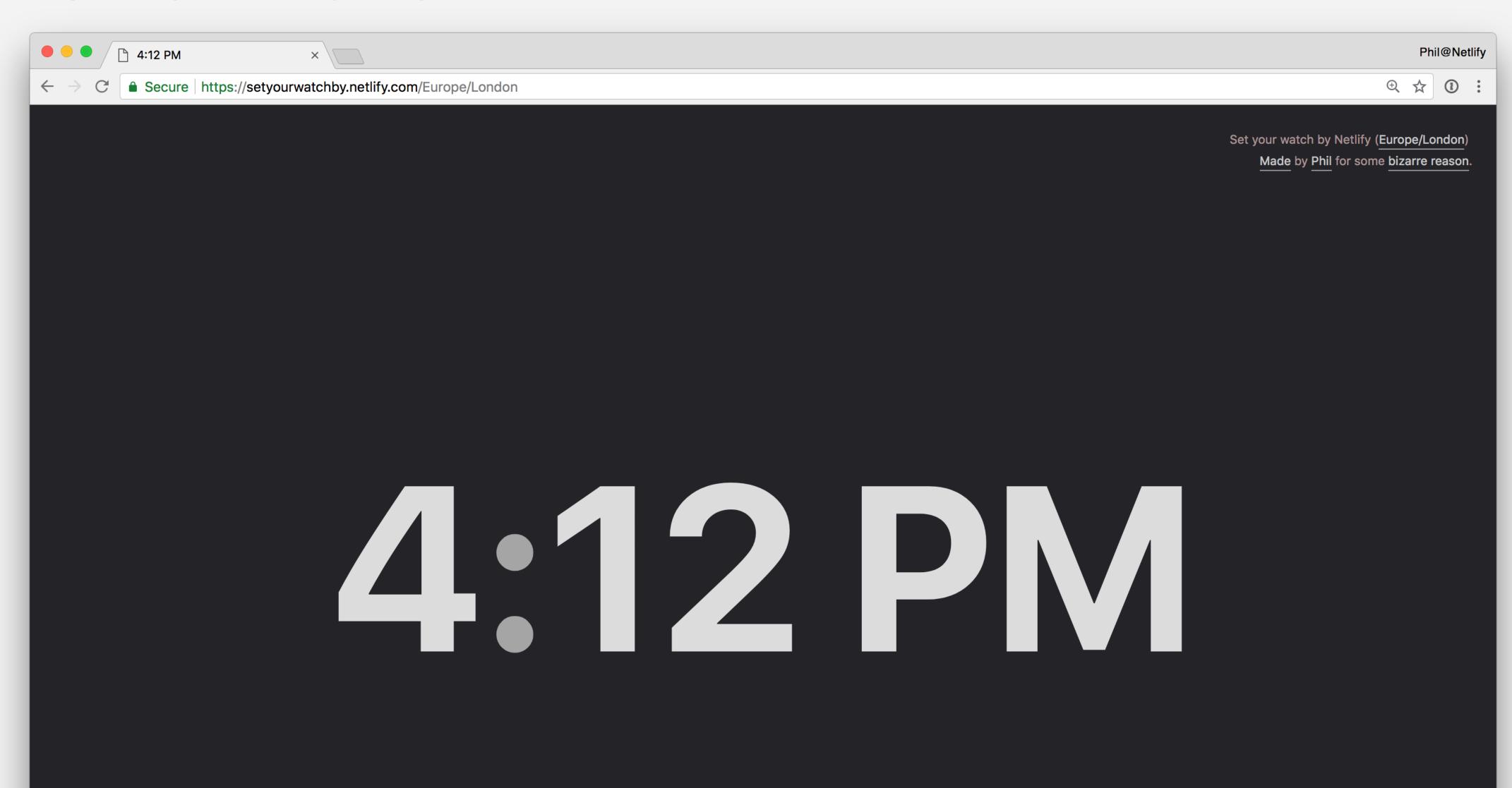






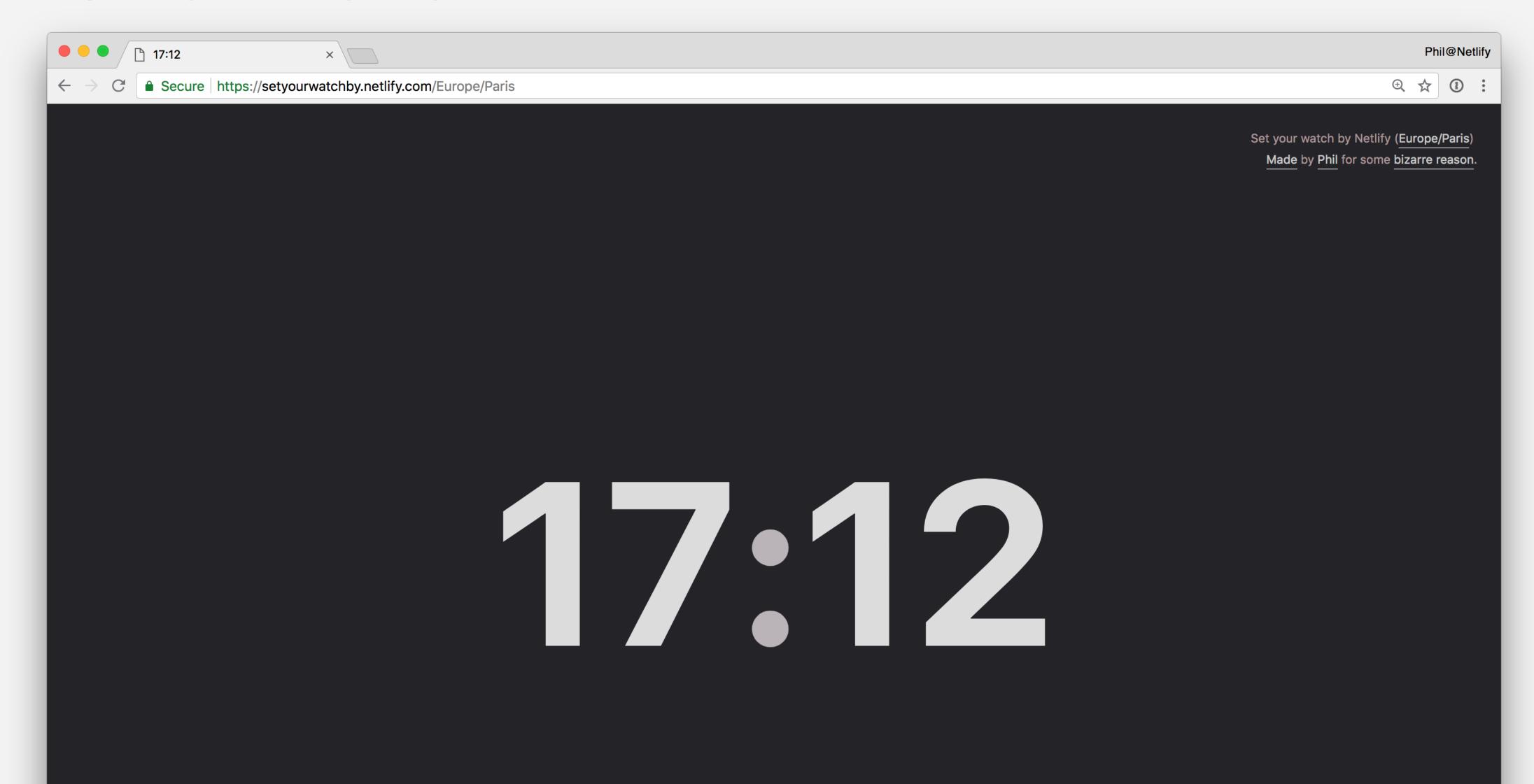
FINDTHAT.AT/TIME

https://setyourwatchby.netlify.com



FINDTHAT.AT/TIME

https://setyourwatchby.netlify.com

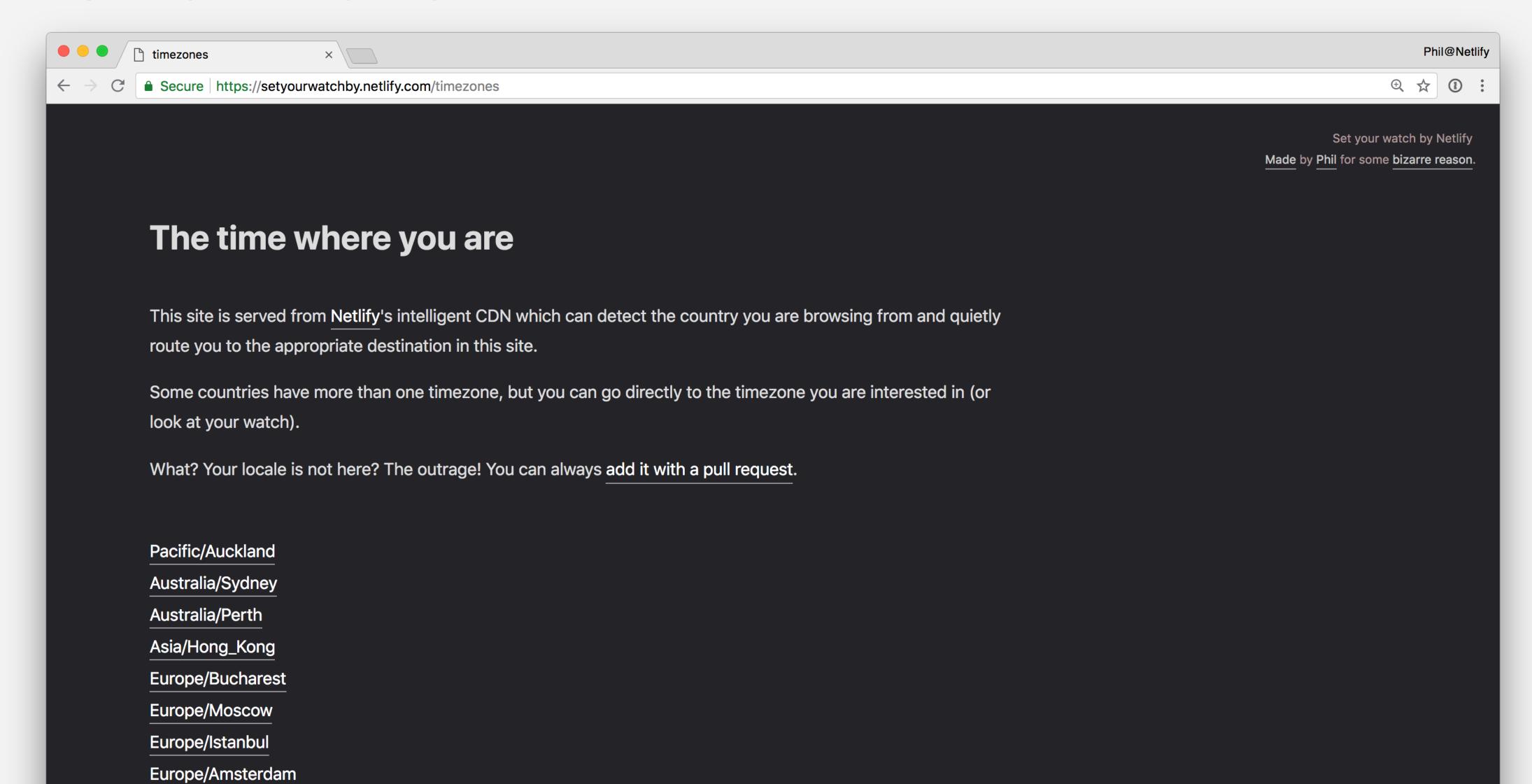


Nebraska JS, 2019



FINDTHAT.AT/TIME

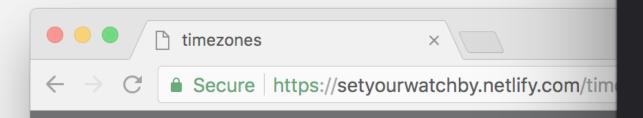
https://setyourwatchby.netlify.com





FINDTHAT.AT/TIN

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

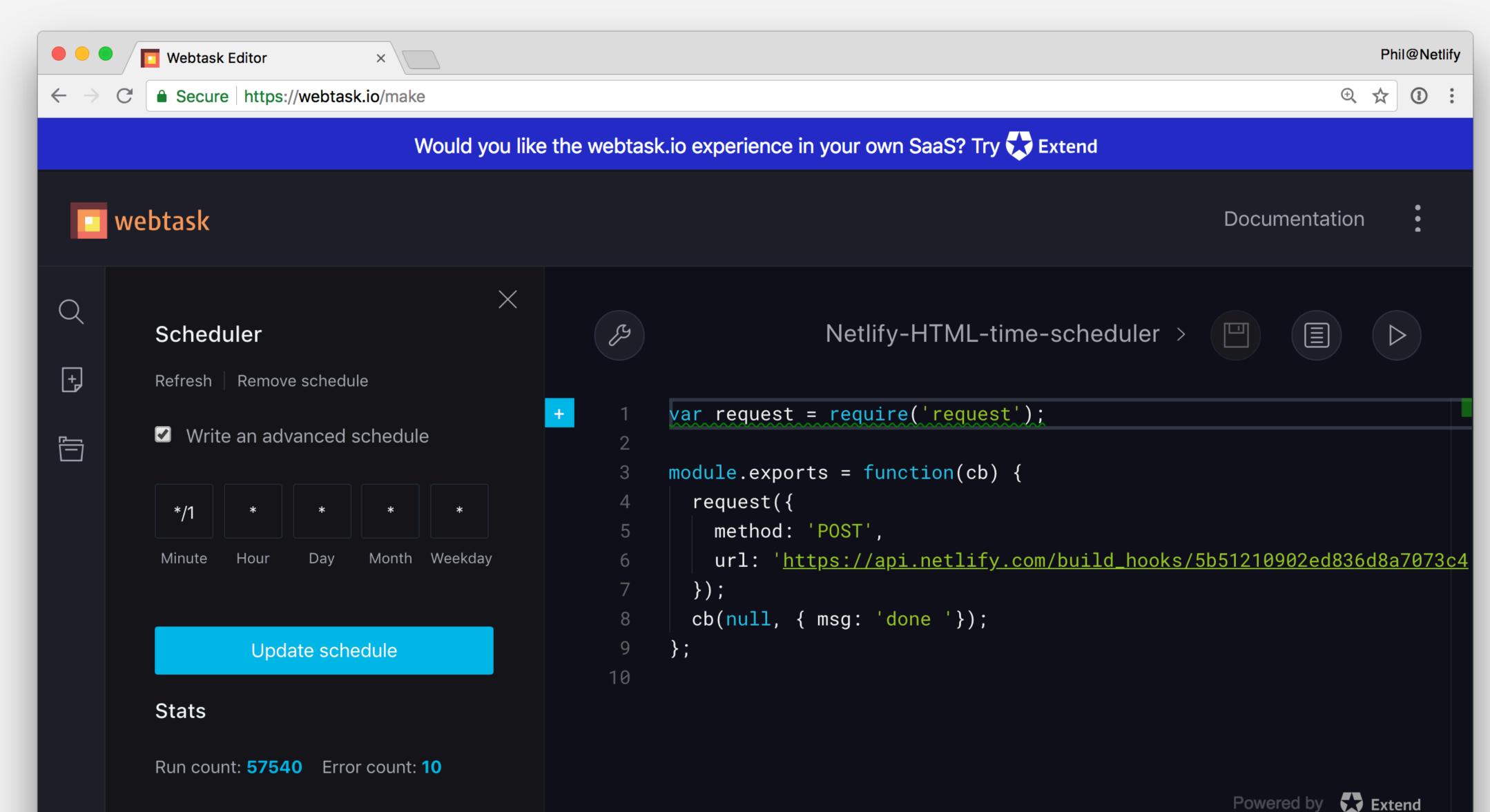
America/Chicago

America/Denver

America/Los Angeles

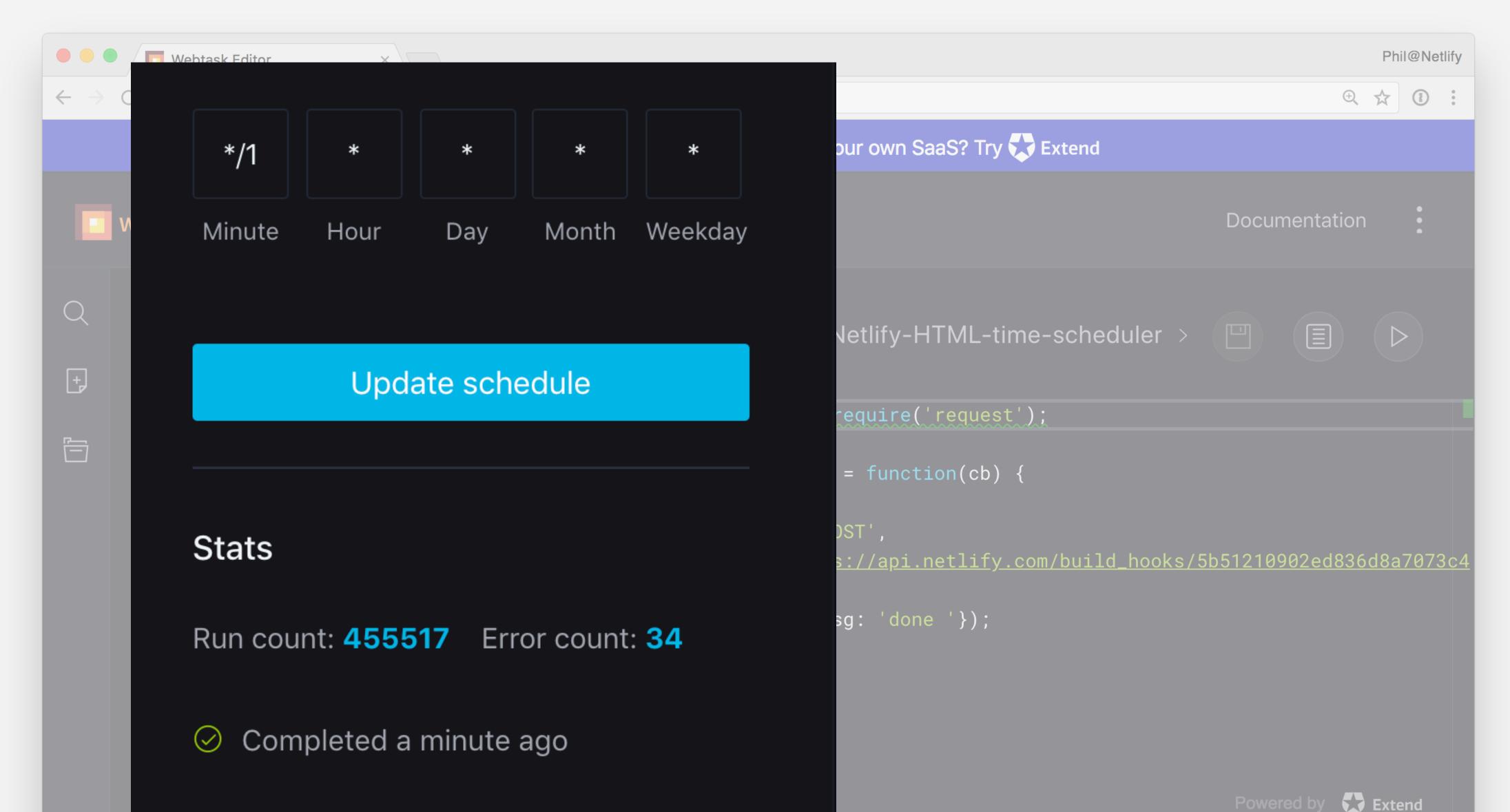


WEBSTASK.10





WEBSTASK.10



(DON'T DO THIS)



PRE-RENDERING

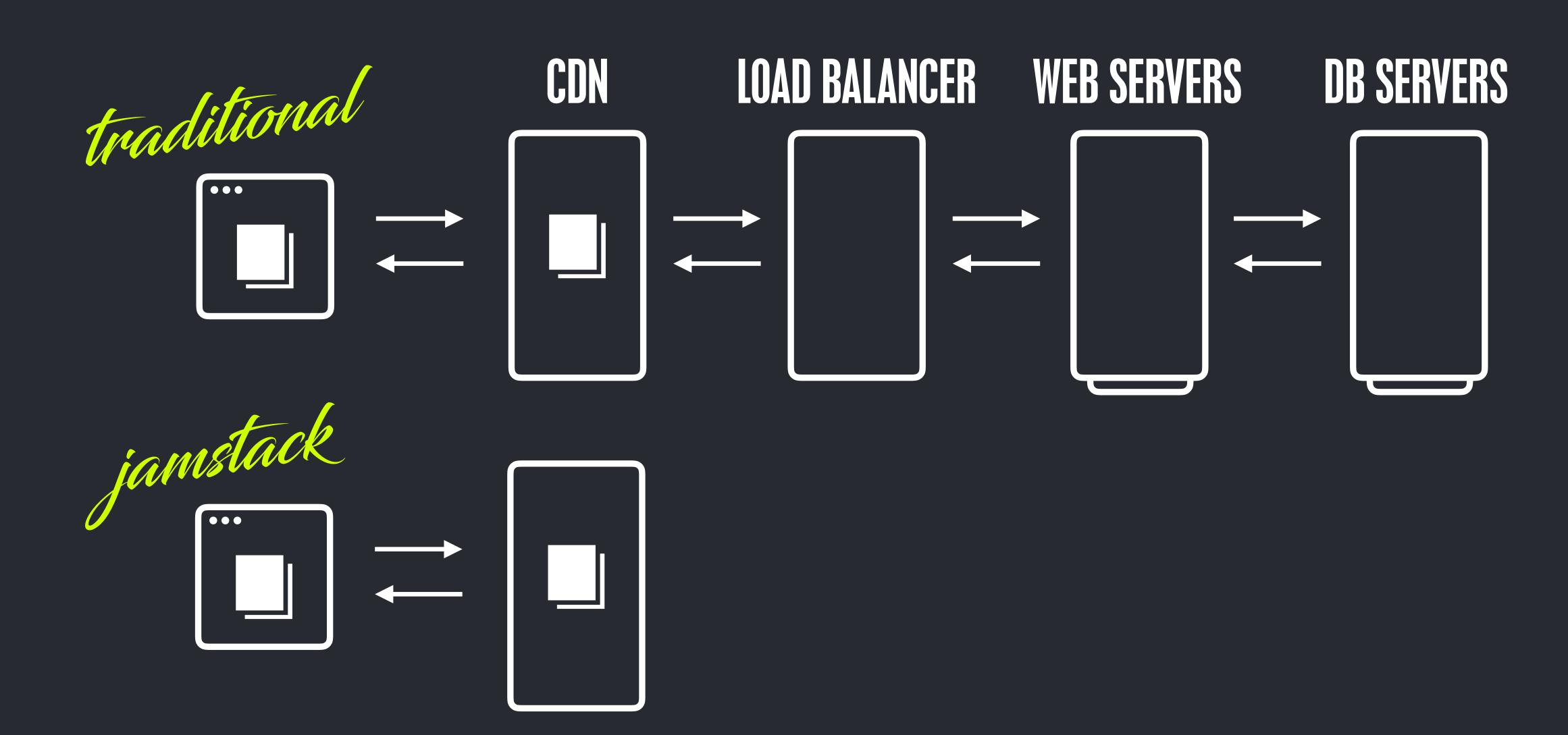
PRE-RENDERING

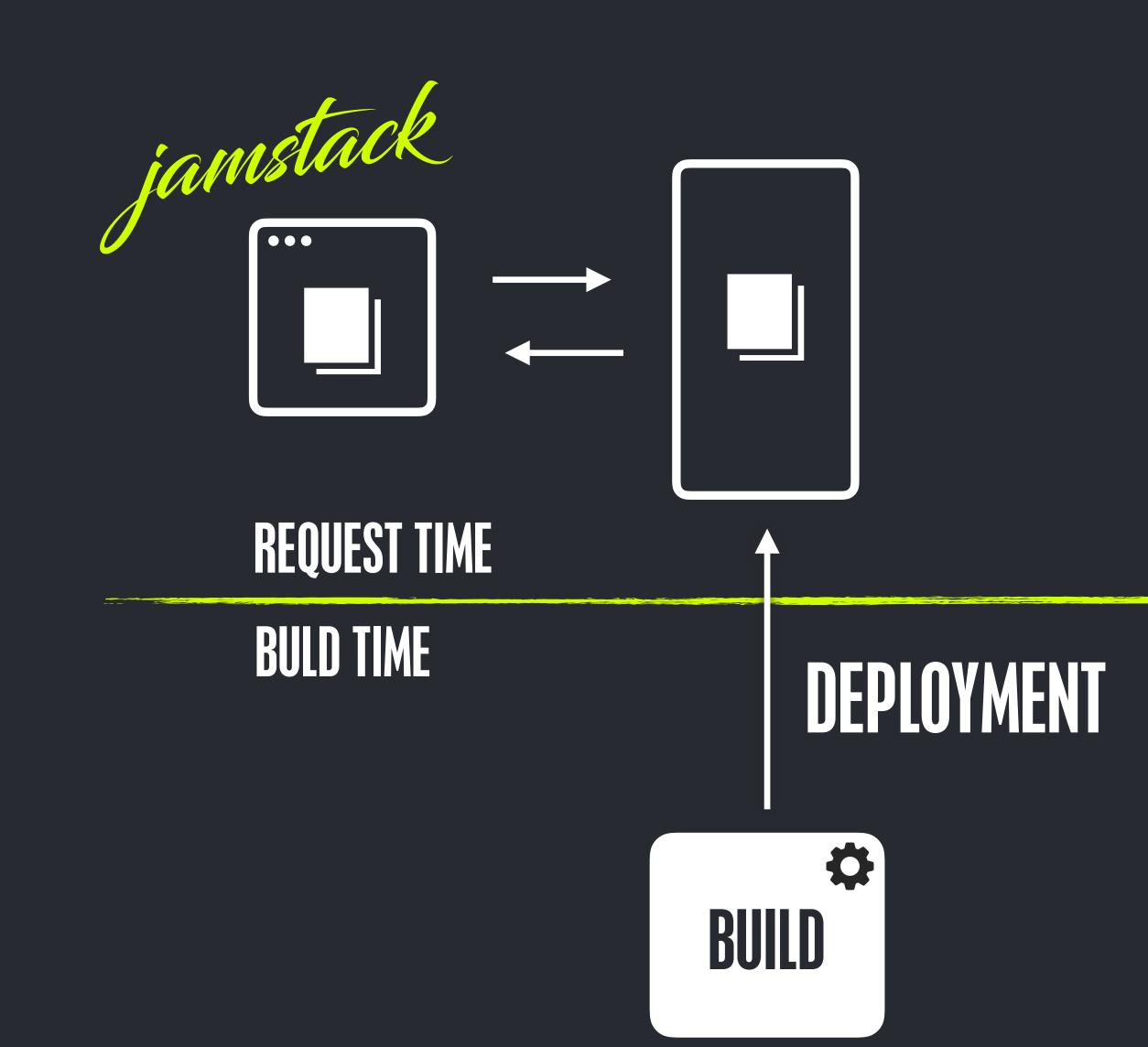
SERVERLESS ON-DEMAND



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

PUTTING DISTANCE BETWEEN THE COMPLEXITY AND THE USER



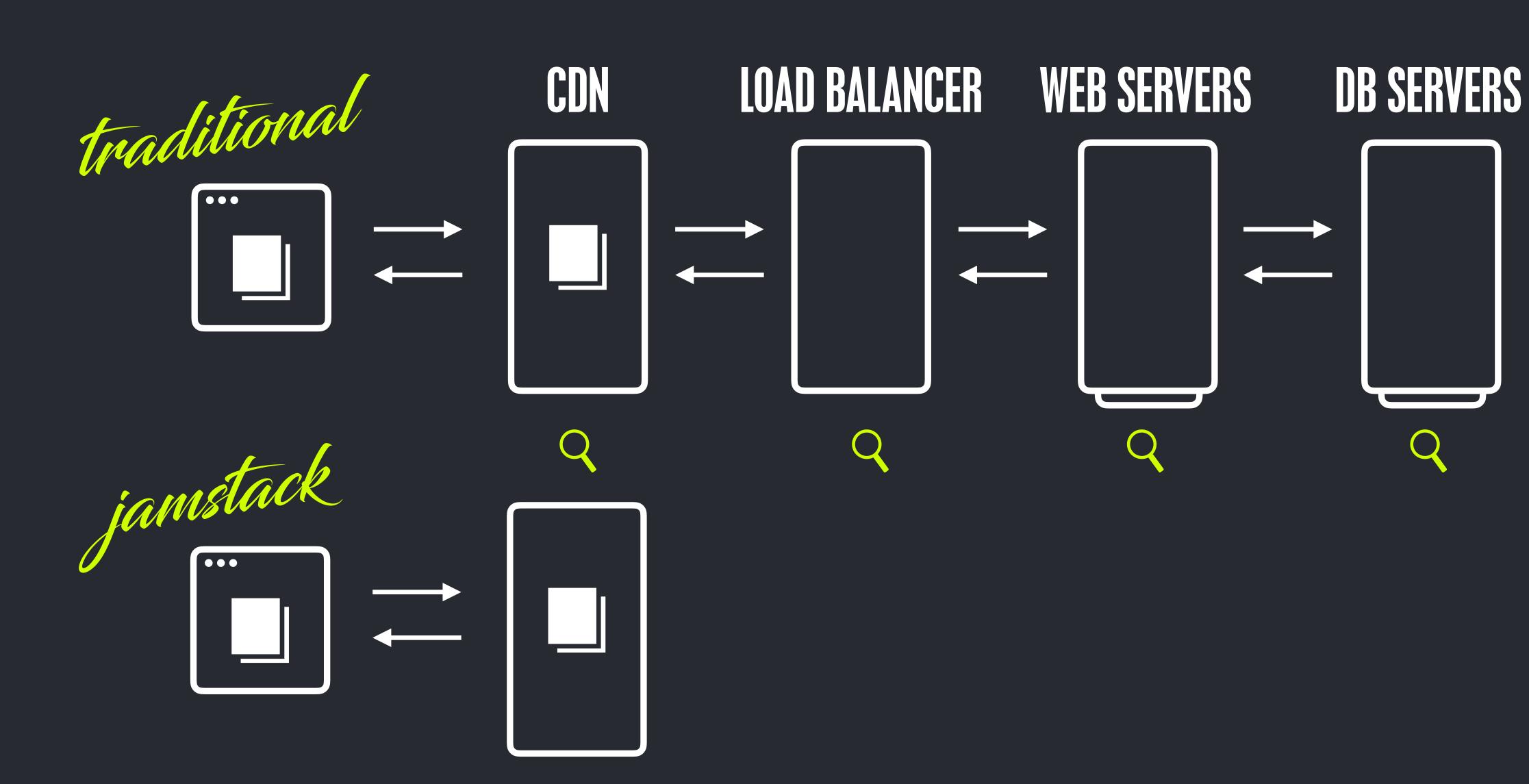


JAMSTACK ADVANTAGES

SECURITY PERFORMANCE SCALE



A GREATLY REDUCED SURFACE AREA

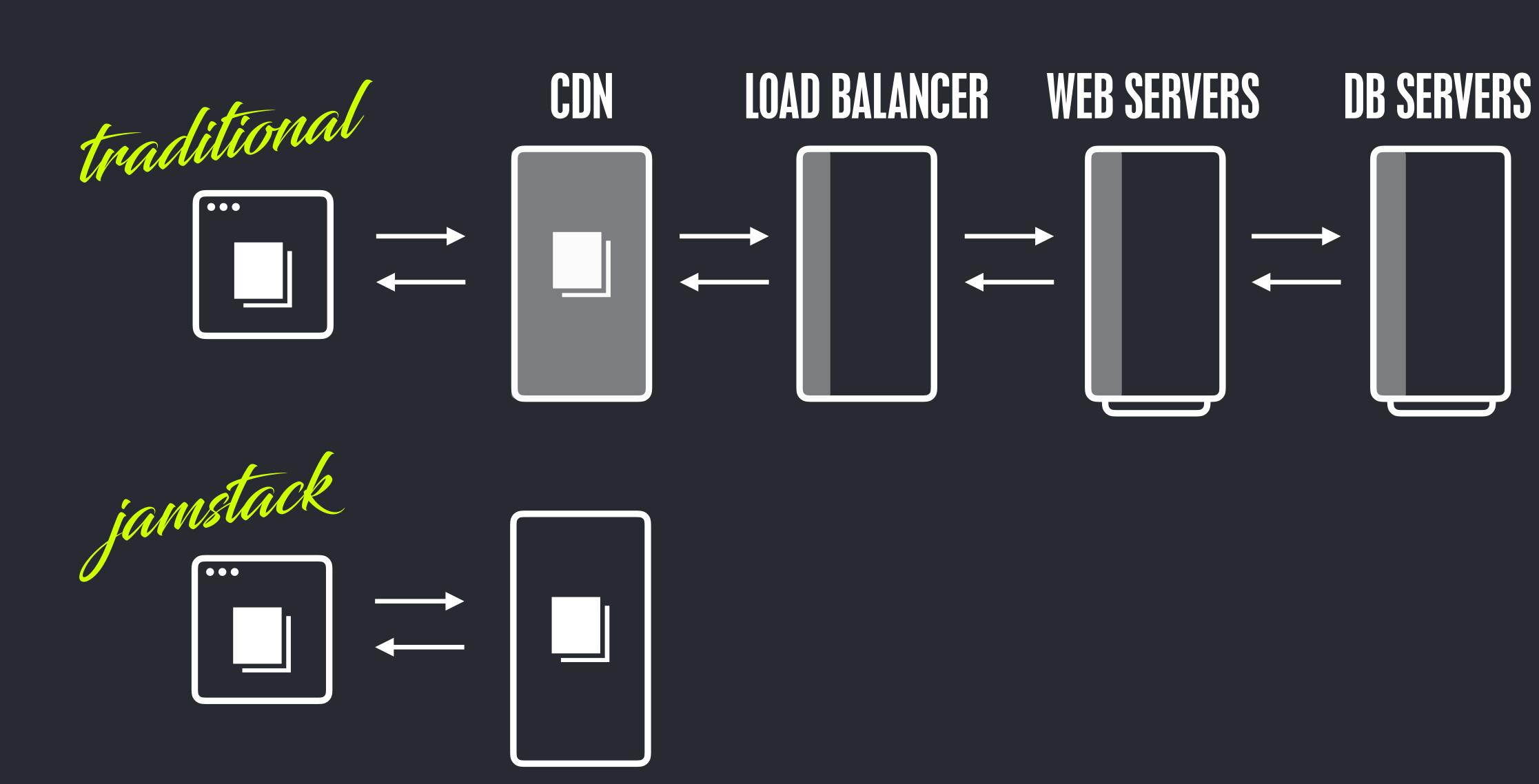


FAR FEWER MOVING PARTS



TRADITIONAL STACKS DD STATIC LAYERS IN ORDER TO IMPROVE PERFORMANCE

CACHING GALORE

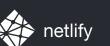


Are you being servered?

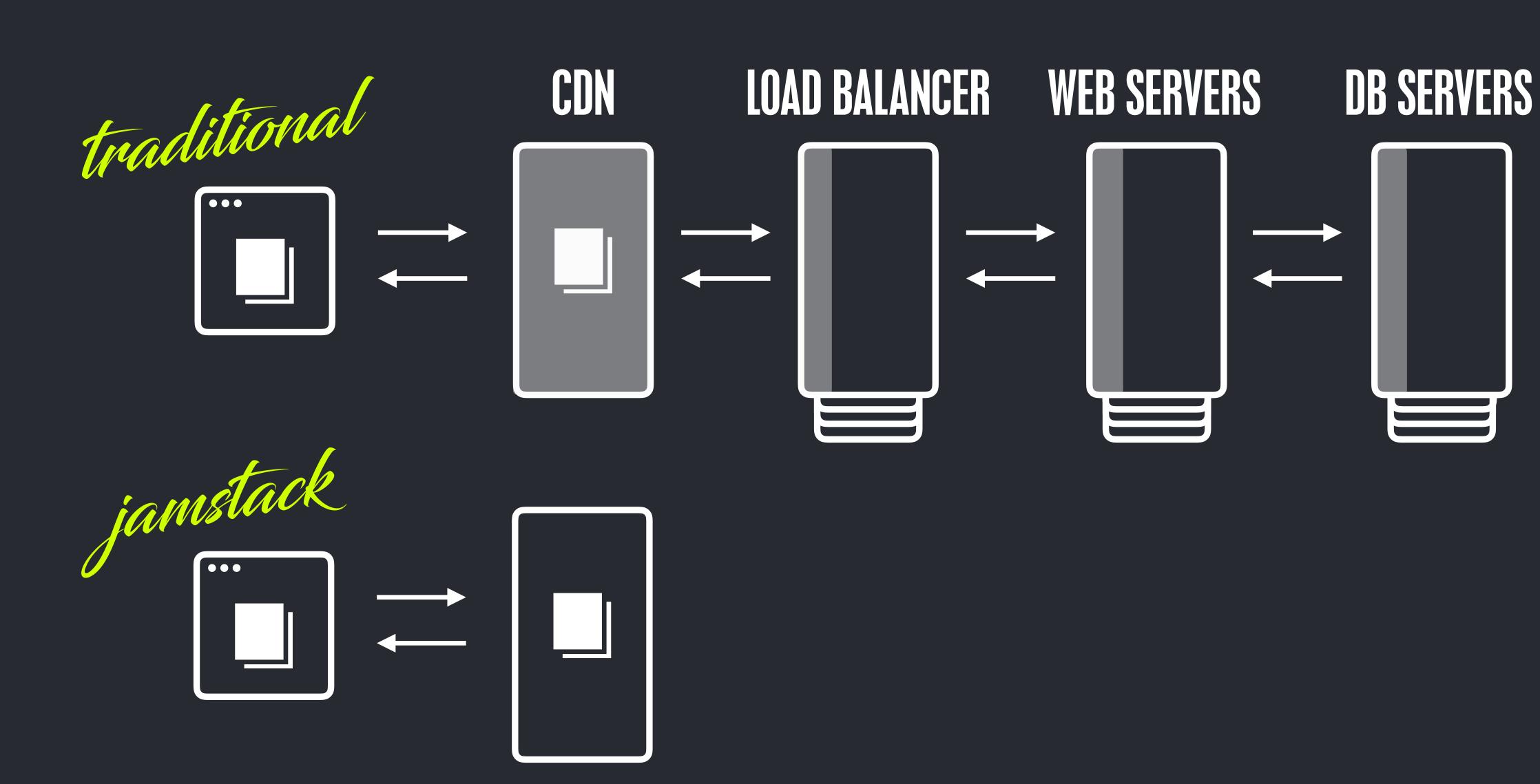
Nebraska JS, 2019

@philhawksworth





TRADITIONAL STACKS ADD INFRASTRUCTURE IN ORDER TO SCALE



DECOUPLING















PRE-RENDERING

SERVERLESS ON-DEMAND

SERVERLESS ON-DEMAND



A modern architecture —

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

I ABSOLUTELY POSITIVELY NEED A LITTLE LOGIC ON A SERVER

MANY OF US, SOMETIMES



LET'S JUST RECREATE EVERYTHING IN SERVERLESS FUNCTIONS

THAT VOICE OF TEMPATION



A modern architecture —

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



AUGMENTATION

ENHANCEMENT

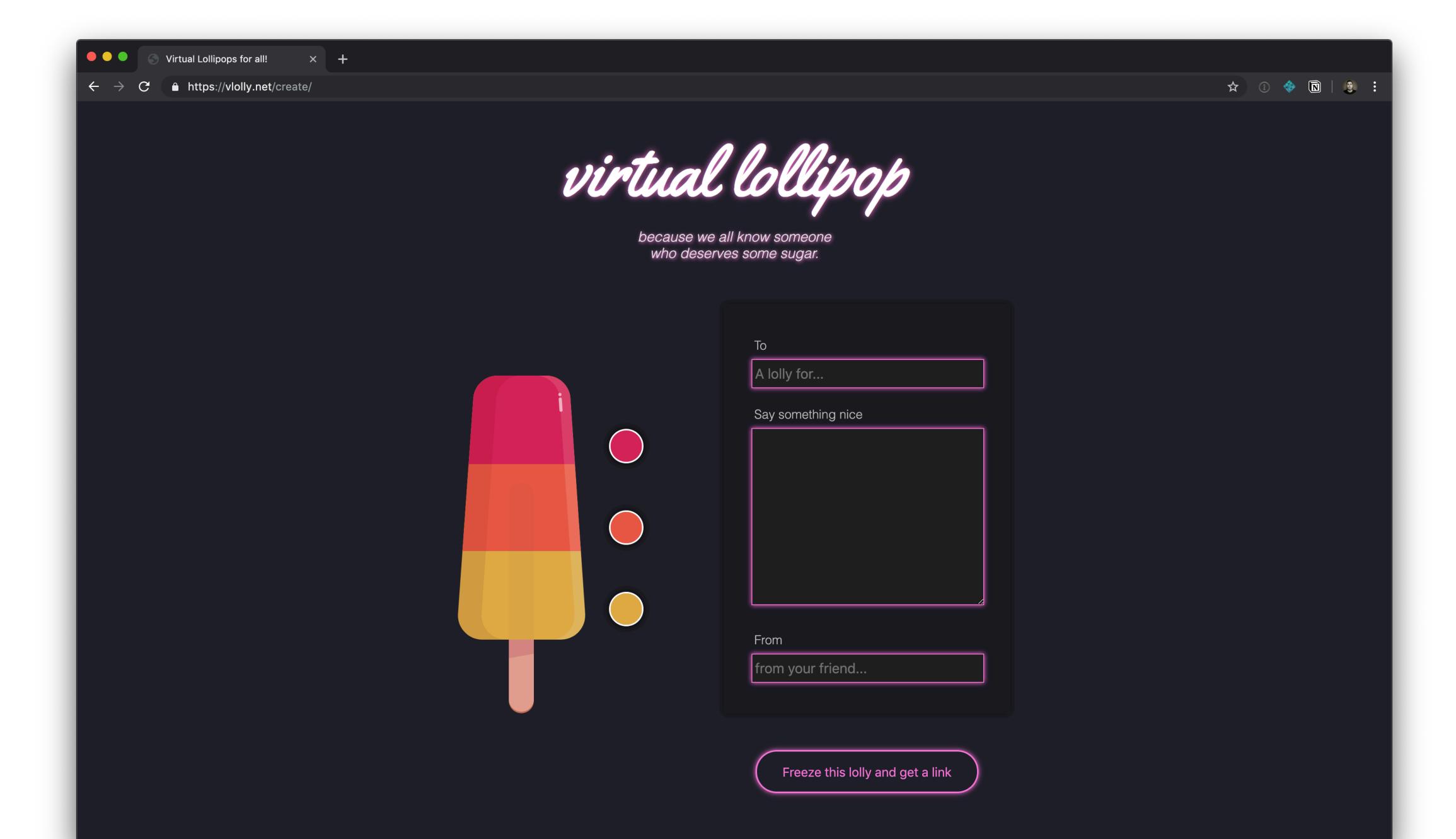
STATIC FIRST

MARKUS SCHORK, UNILEVER

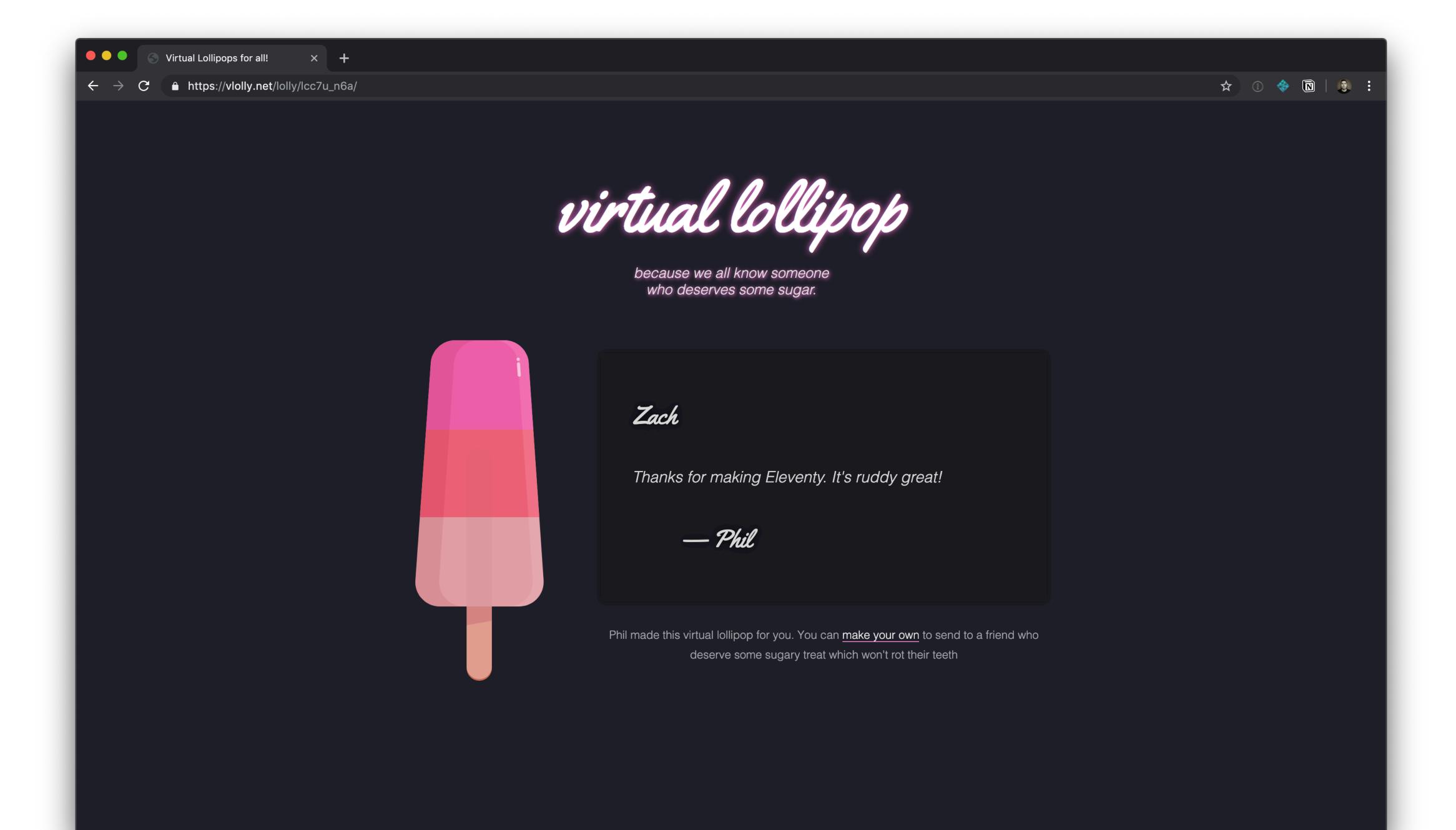




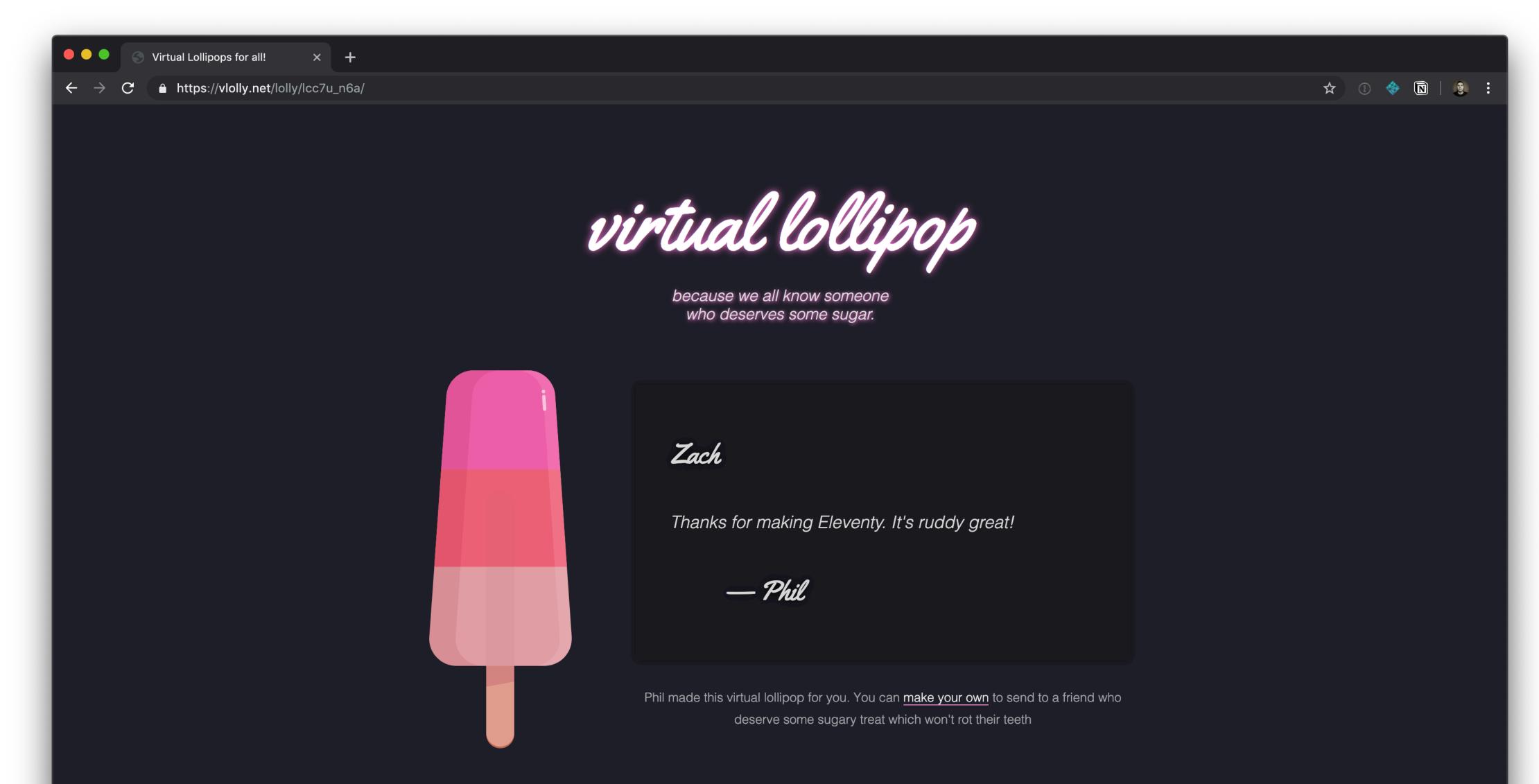








VLOLLY.NET/LOLLY/ICC7u_n6a







PRE-GENERATED PAGES WITH REAL URLS

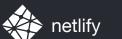
(EVEN FOR THE USER GENERATED CONTENT)

DATA STORED IN A DATABASE

(BUT DON'T MAKE ME A DBA)

INSTANT ACCESS TO NEW CONTENT

(WITHOUT WAITING FOR A REBUILD)



Are you being servered?

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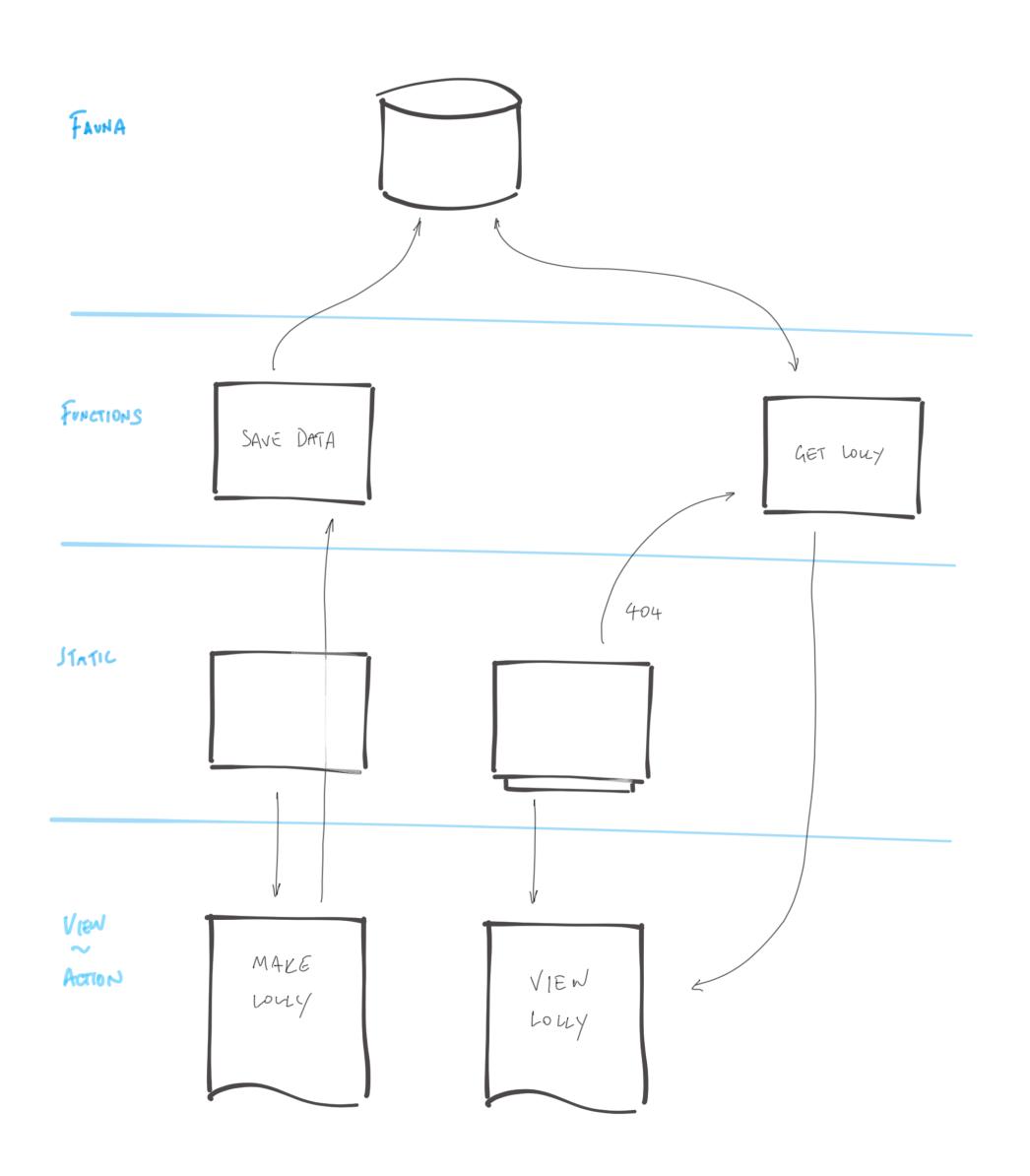
@philhawksworth

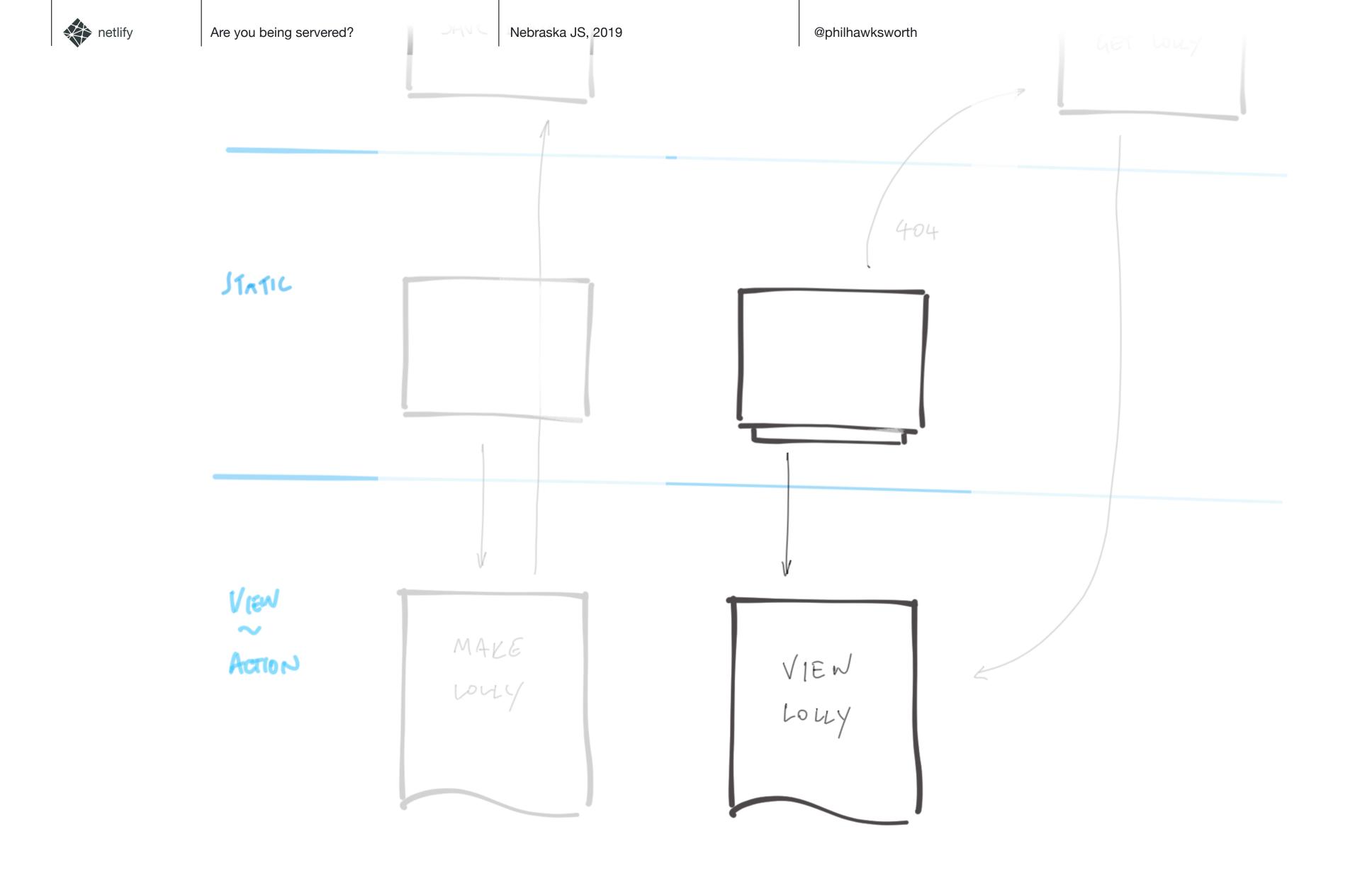


PRE-GENERATED PAGES WITH REAL URLS ELEVENTY

DATA STORED IN A DATABASE FAUNADB

INSTANT ACCESS TO NEW CONTENT NETLIFY FUNCTIONS



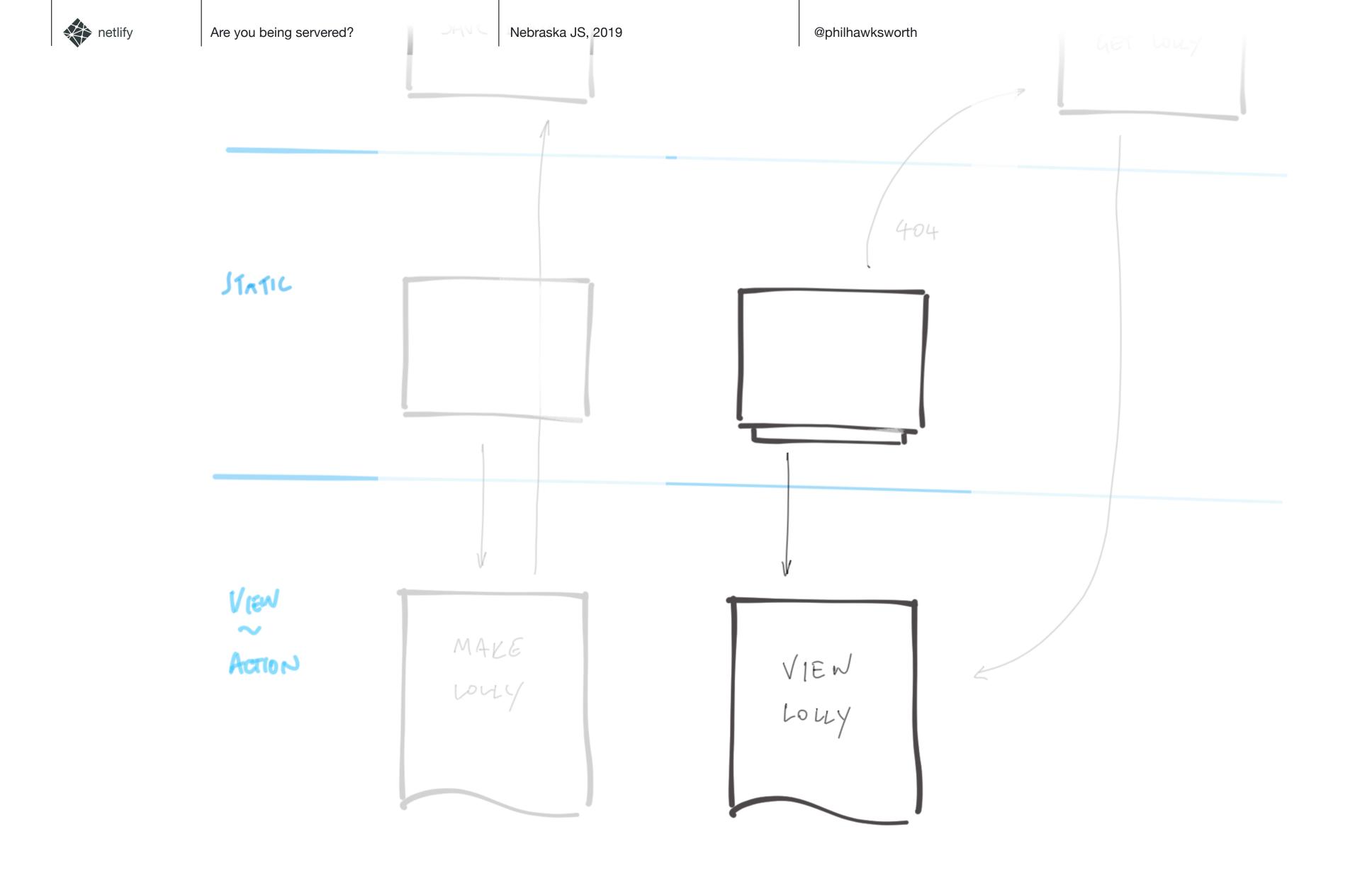


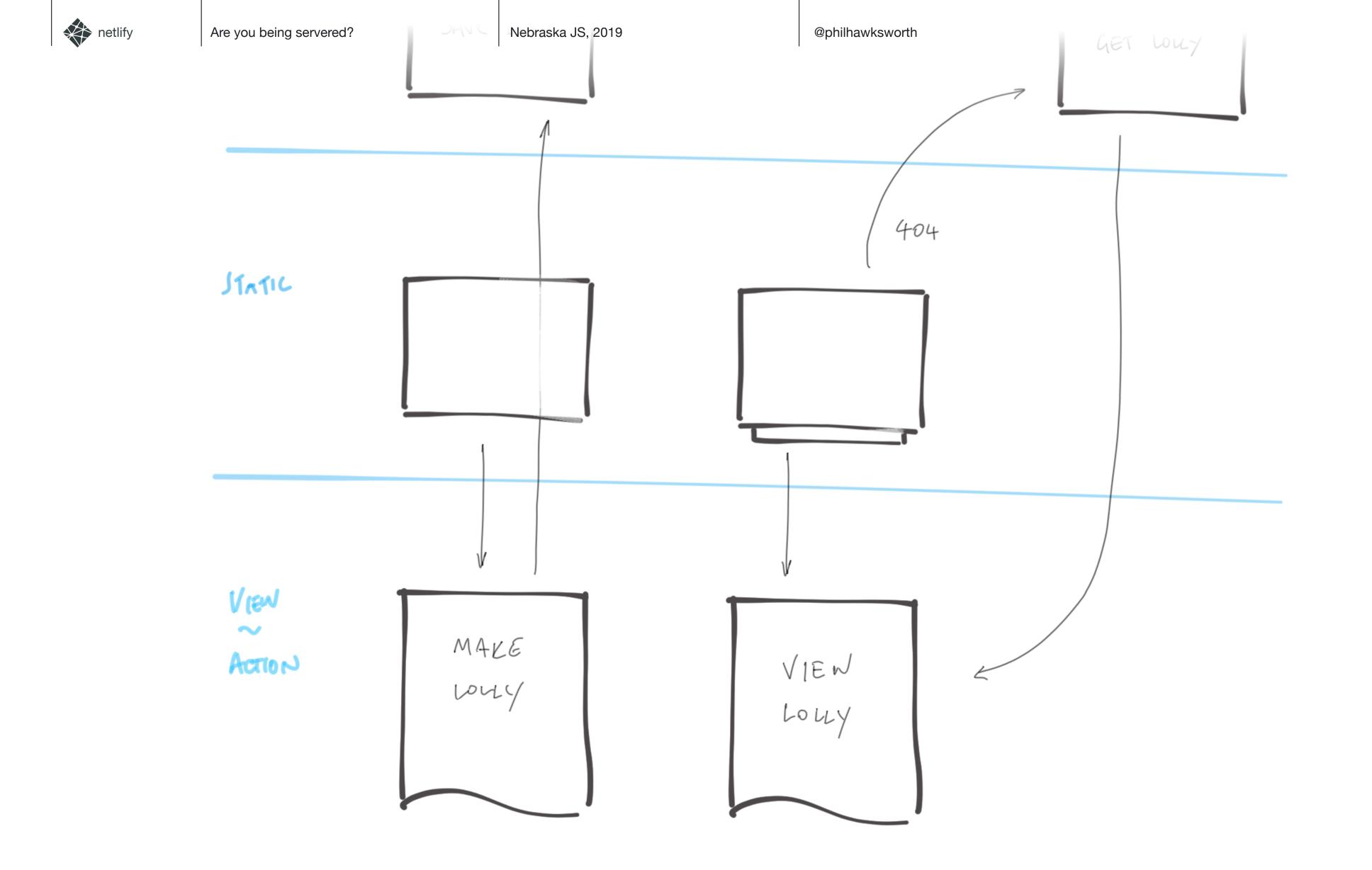
AUTHENTICATE WITH THE DB

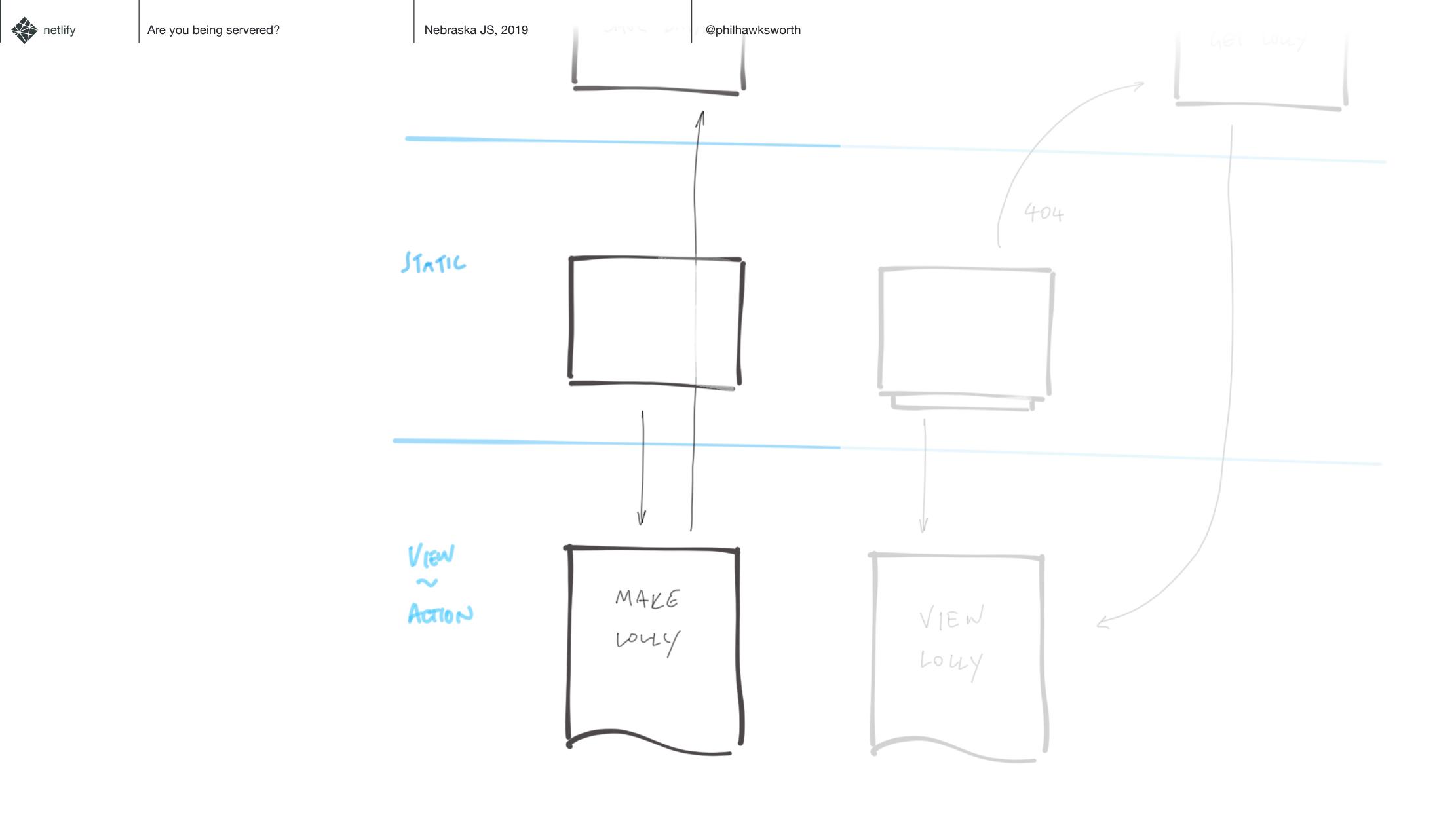
QUERY FOR ALL THE LOLLIES... AND THEIR BATA

RESOLVE THE PROMSE OF LOLLIES

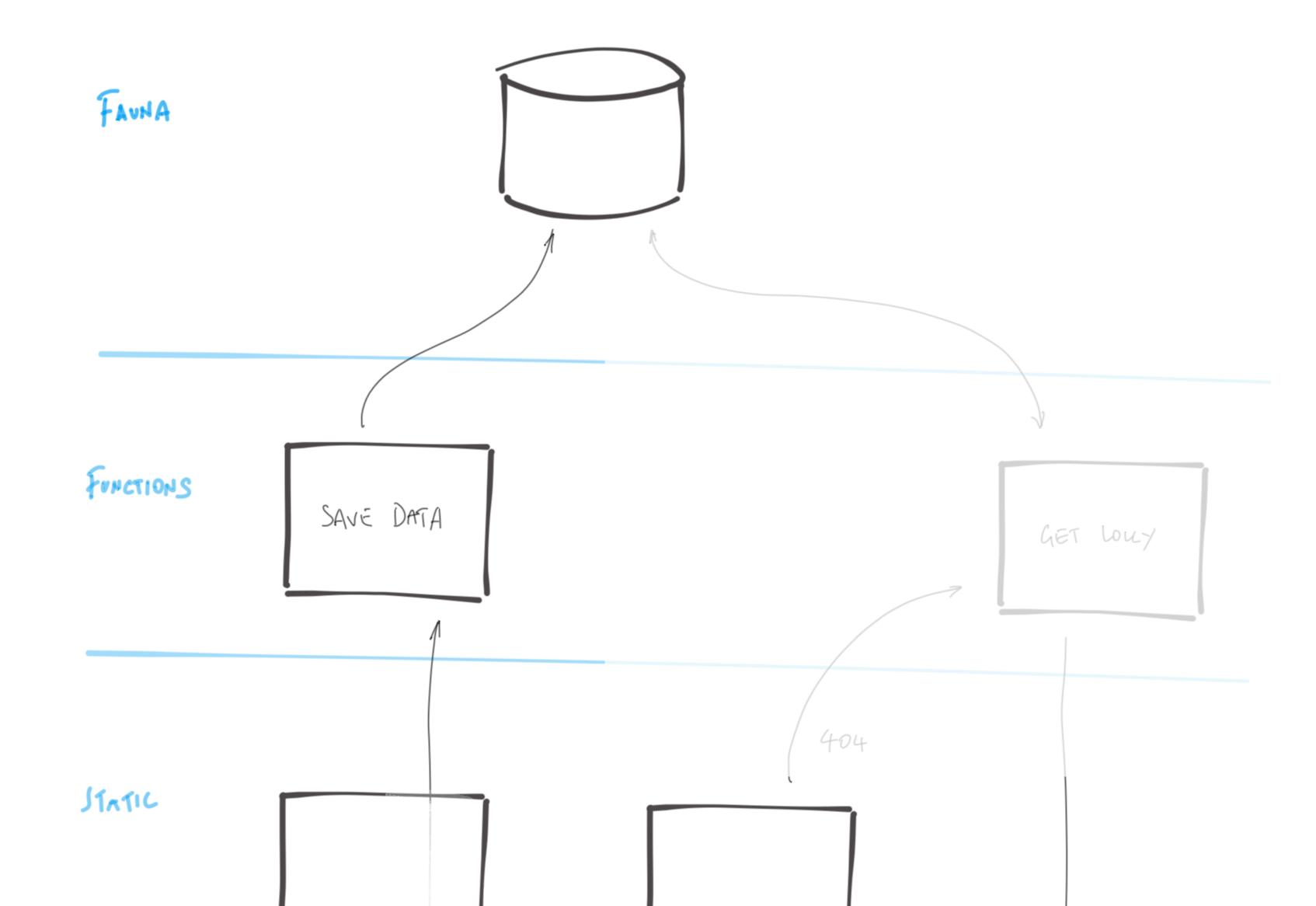
CATCH ANY ERRORS

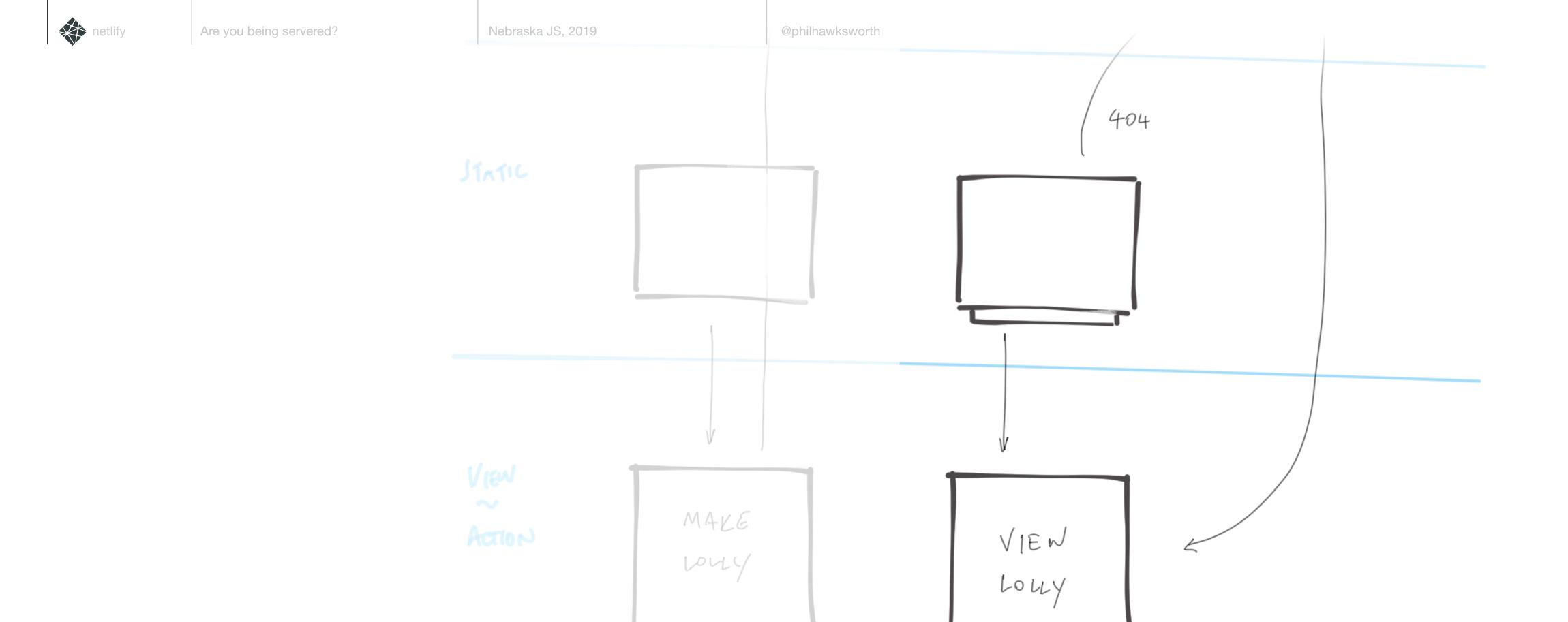






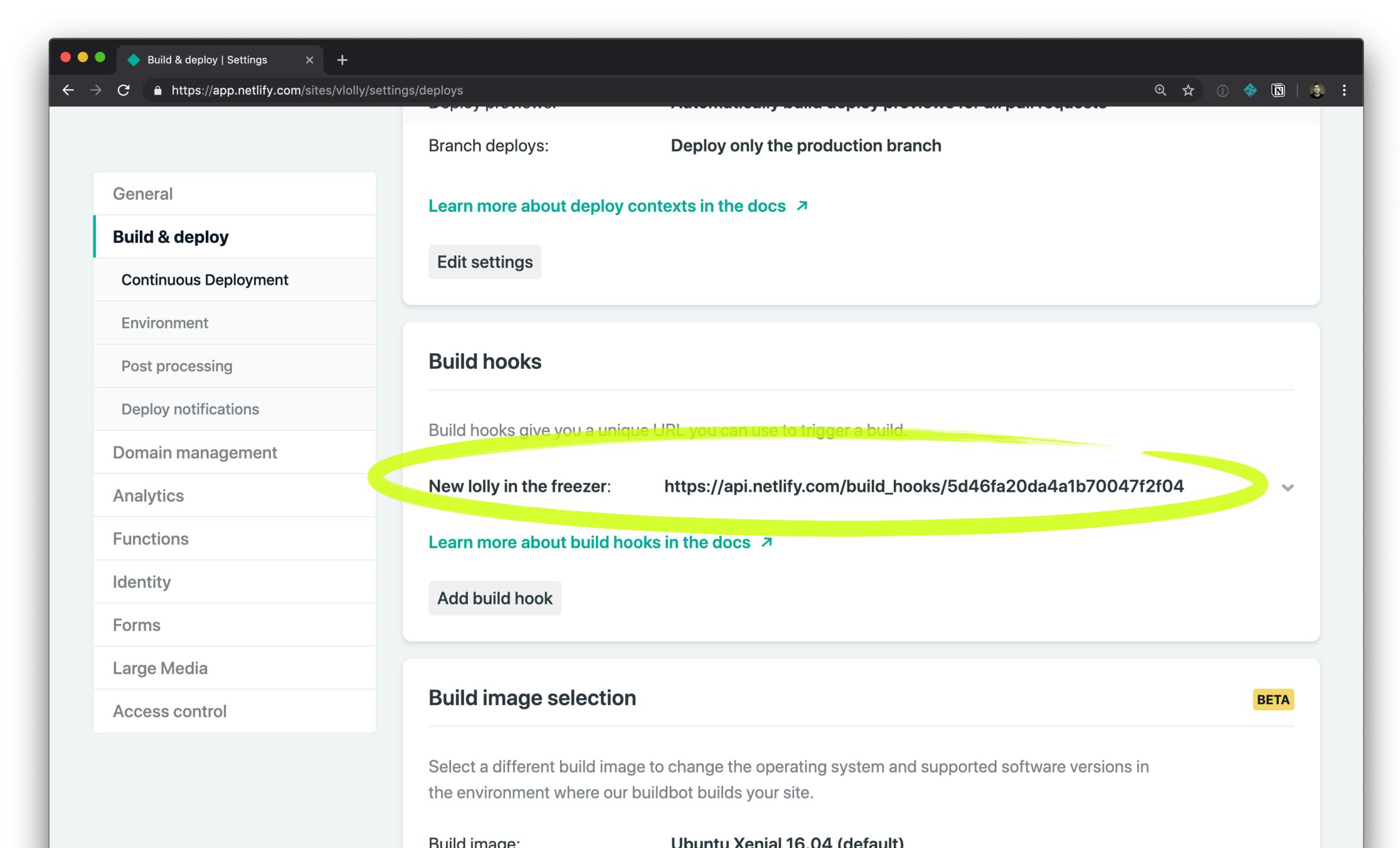




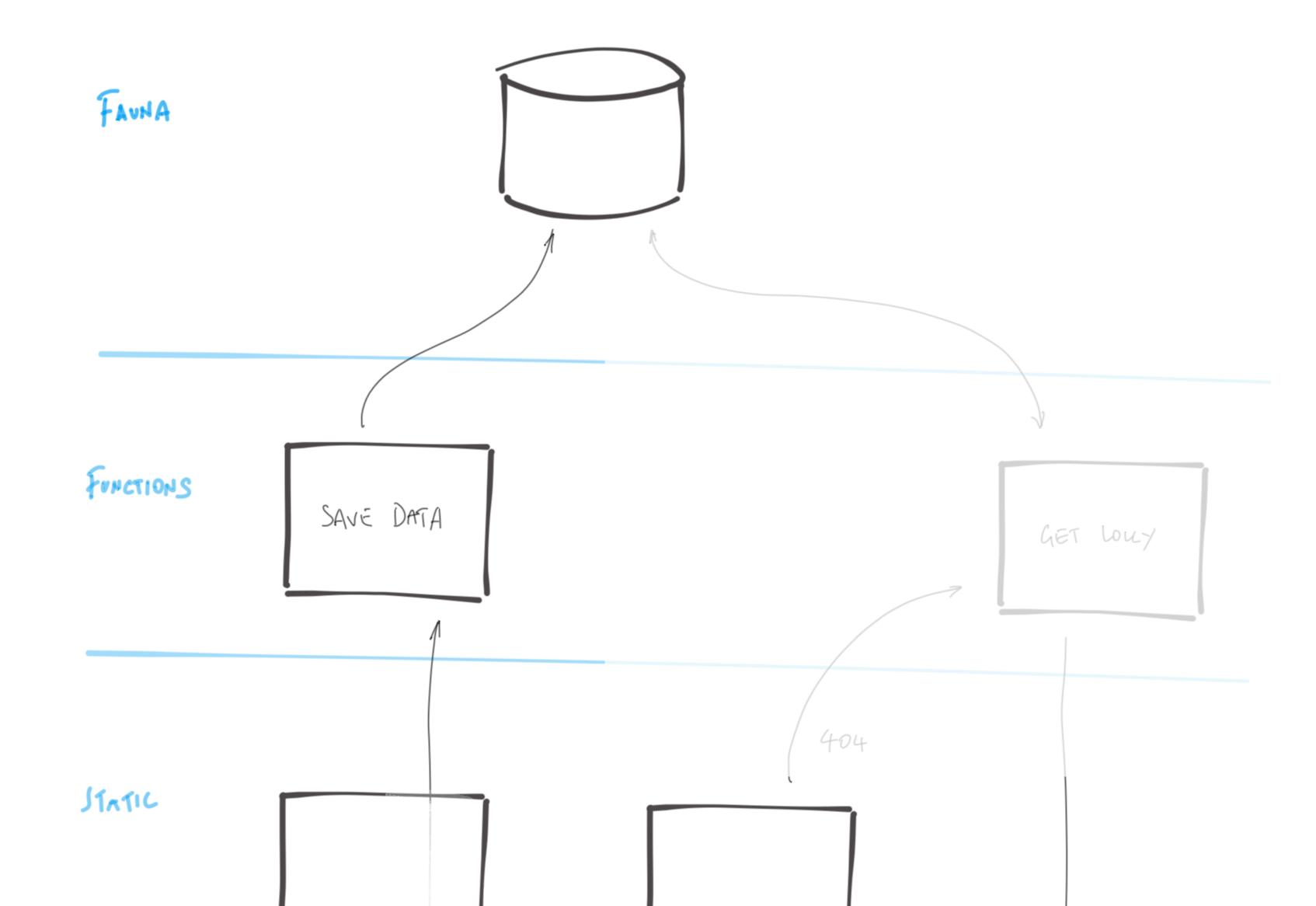


netlify

TRIGERS AND







AUTHENTICATE WITH THE DB

POST THE BATA

REBUILD

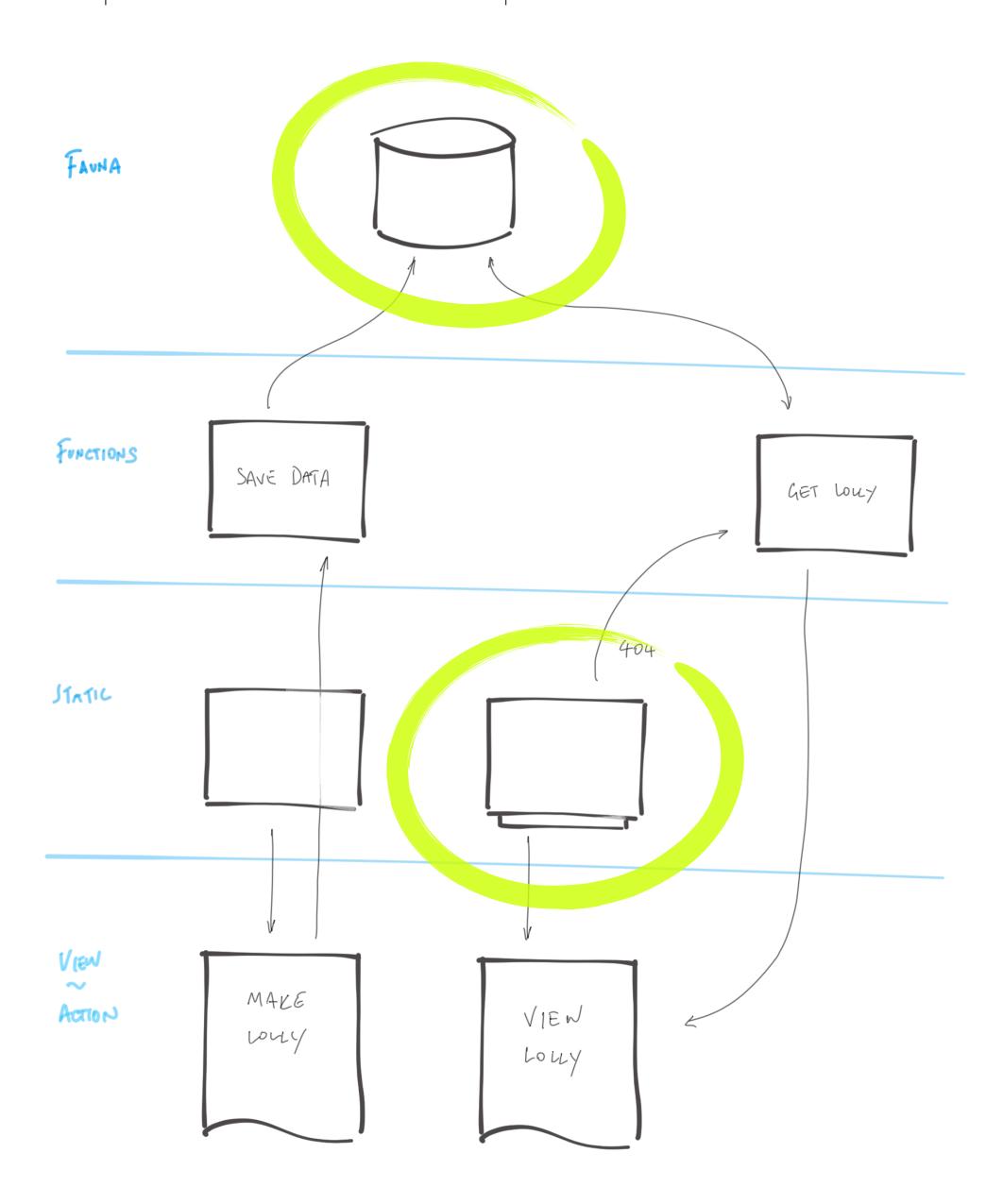
SEND THE USER TO CHECK THE FREEZER FOR A LOLLY

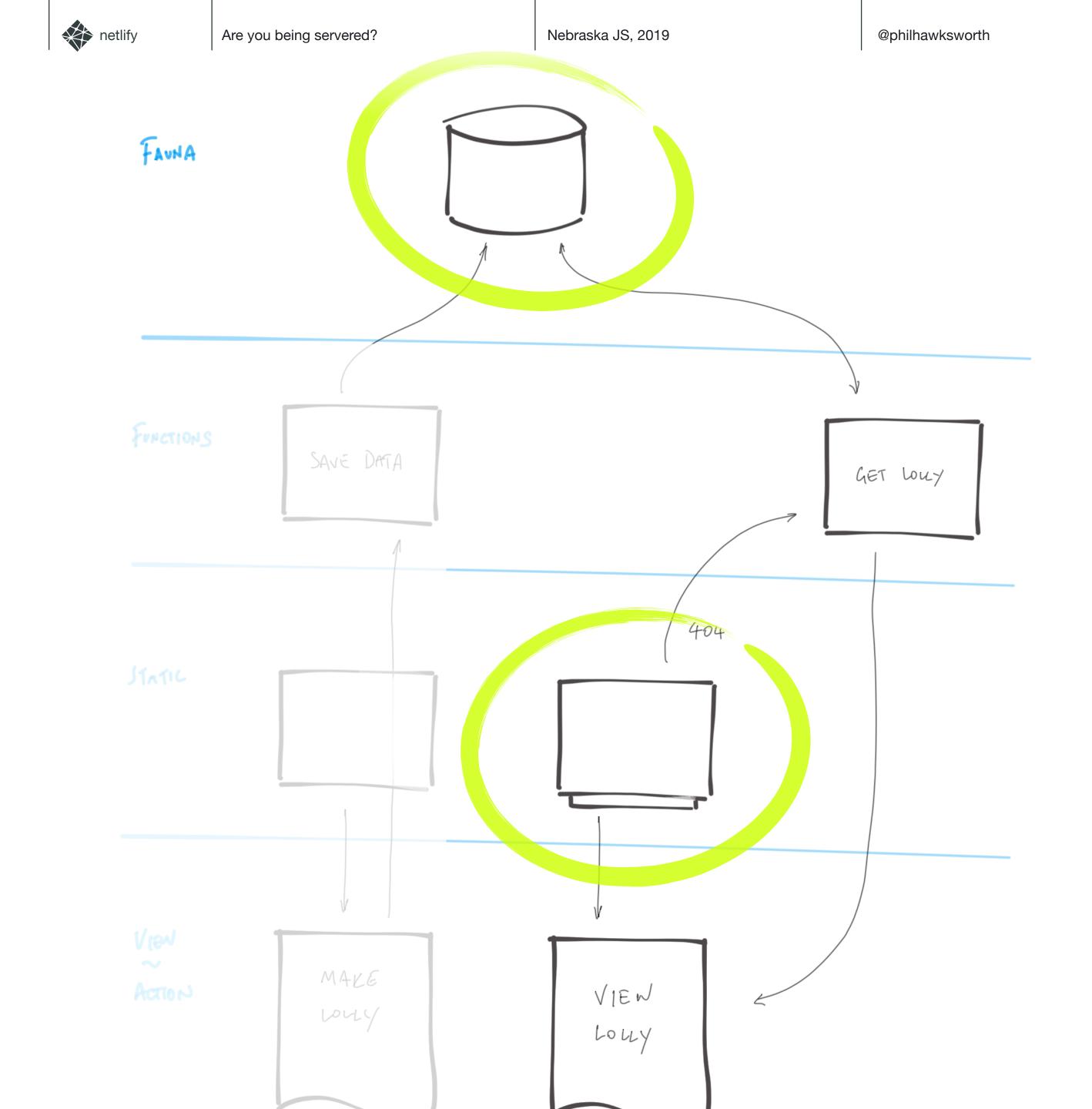
WHAT THE DICKENS DOES "CHECK THE FREEZER FOR A LOLLY" MEAN?

ALL OF YOU, POSSIBLY



RENDER A
DYNAMIC
VIEW









CUSTOM 404 ROUTING



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

EVENTS, TRIGGERS AND AUTOMATION

FUNCTIONS AS A SERVICE

DATABASE AS A SERVICE

PRE-RENDERING

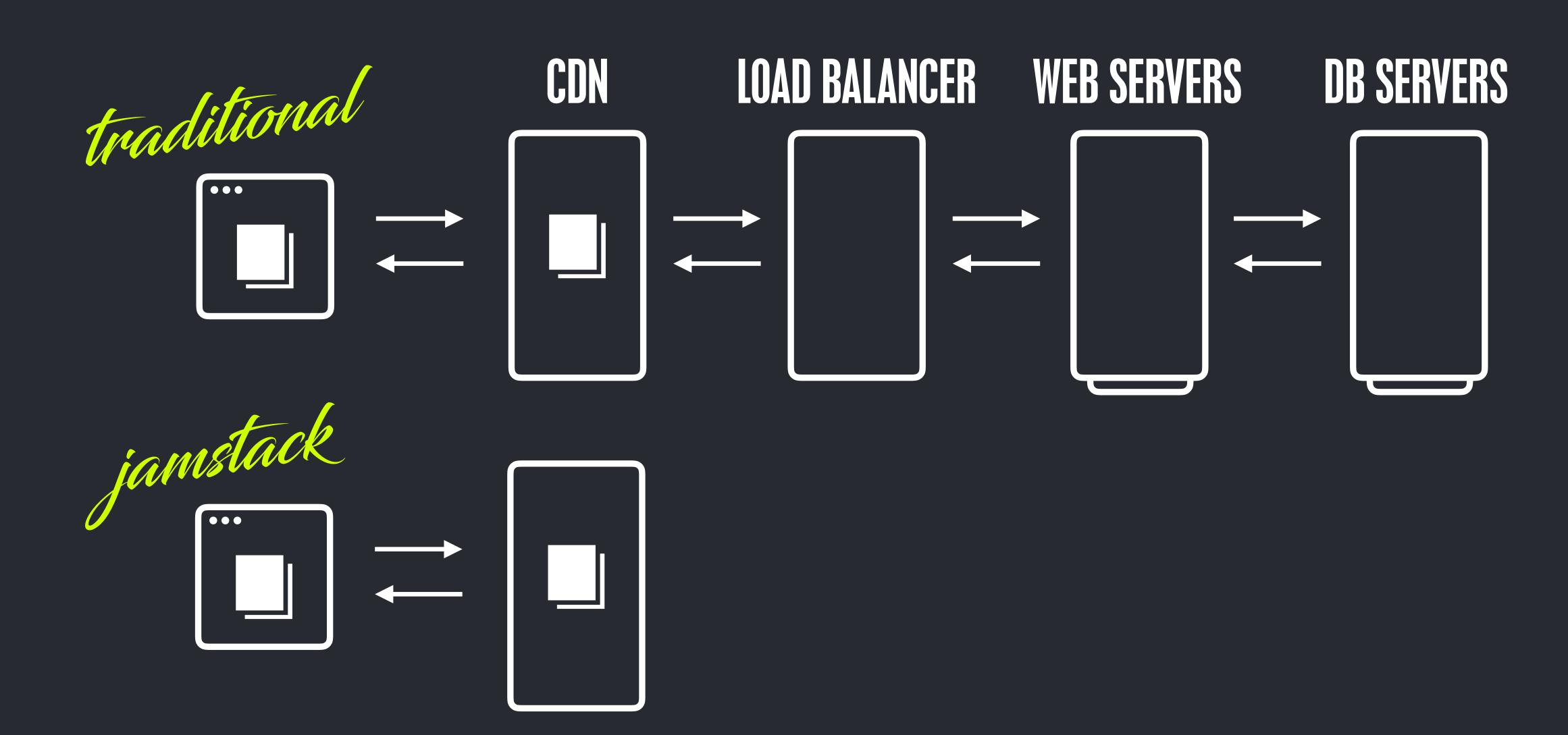
SERVERLESS ON-DEMAND



SEEKING TO OPTIMIZE BY ADDING STATIC LAYERS



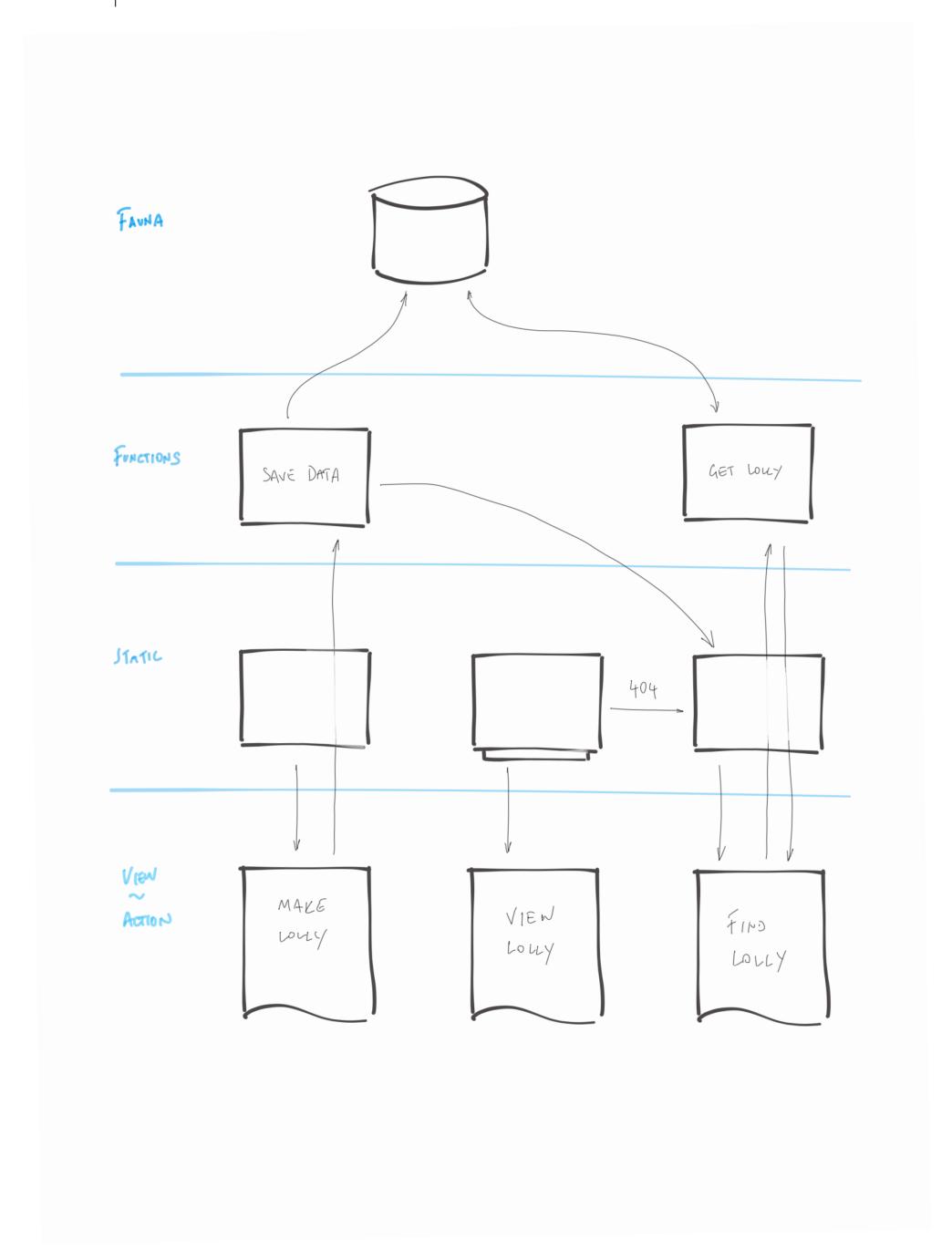
STATIC FIRST ENHANCING IF REQUIRED



SIMPLIFYING SINCE SINCE

HAPLIFY ING IS NOT DUMBING DOWN IT LETS US FOCUS MPORTANI

EASIER TO 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? full-stack.netlify.com

MODERN WEB DEVELOPMENT ON THE JAMSTACK netlify.com/oreilly-jamstack/

JAMSTACK SLACK jamstack.org/slack

JAMSTACK COMMENTS EXAMPLE jamstack-comments.netlify.com

FINDTHAT.AT/NEJS TIGHT

CPHILHAWKSWORTH