NEXT WAVE INFRASTRUCTURE FOR AN EASIER LIFE

PHIL HAWKSWORTH







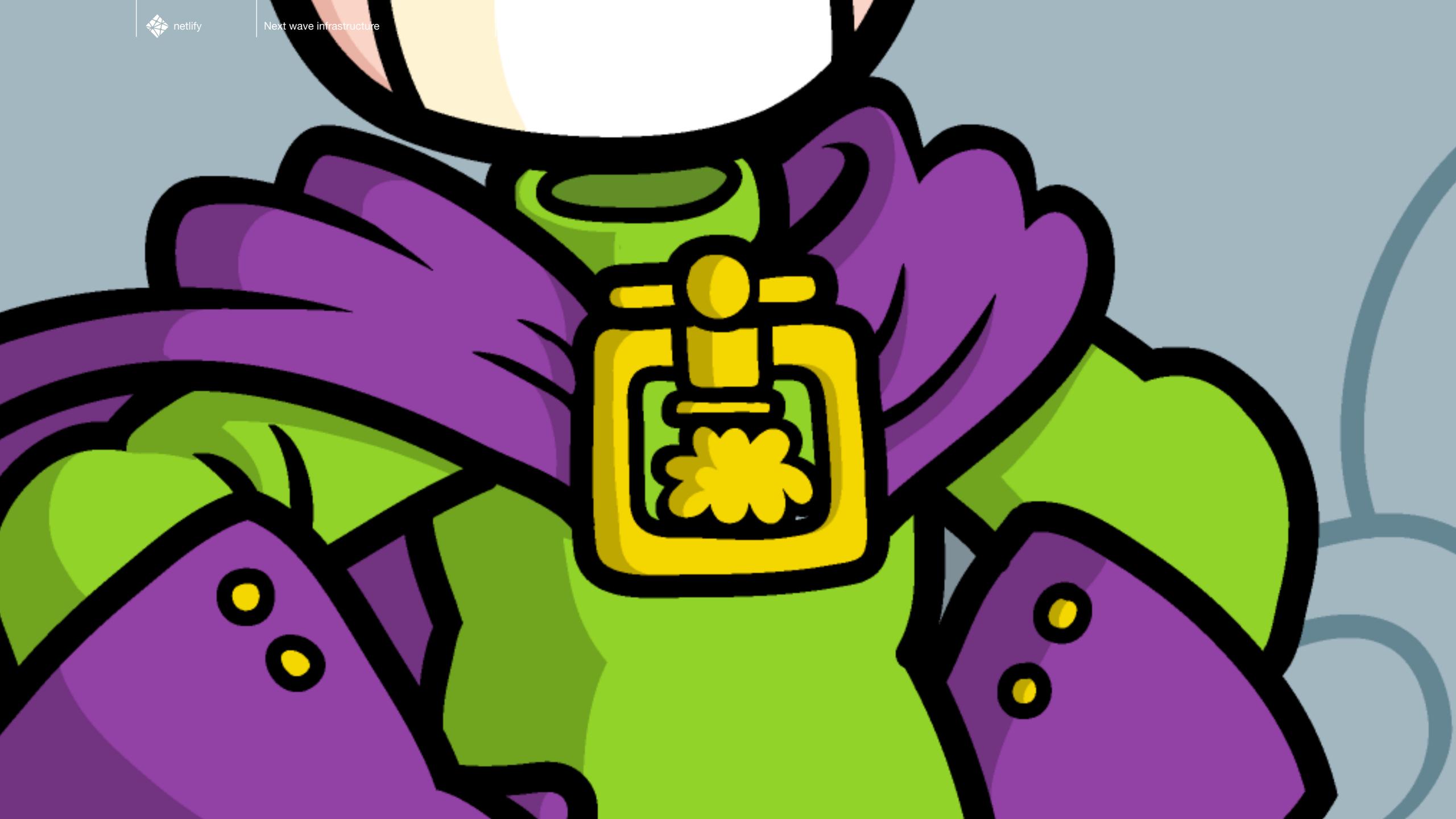




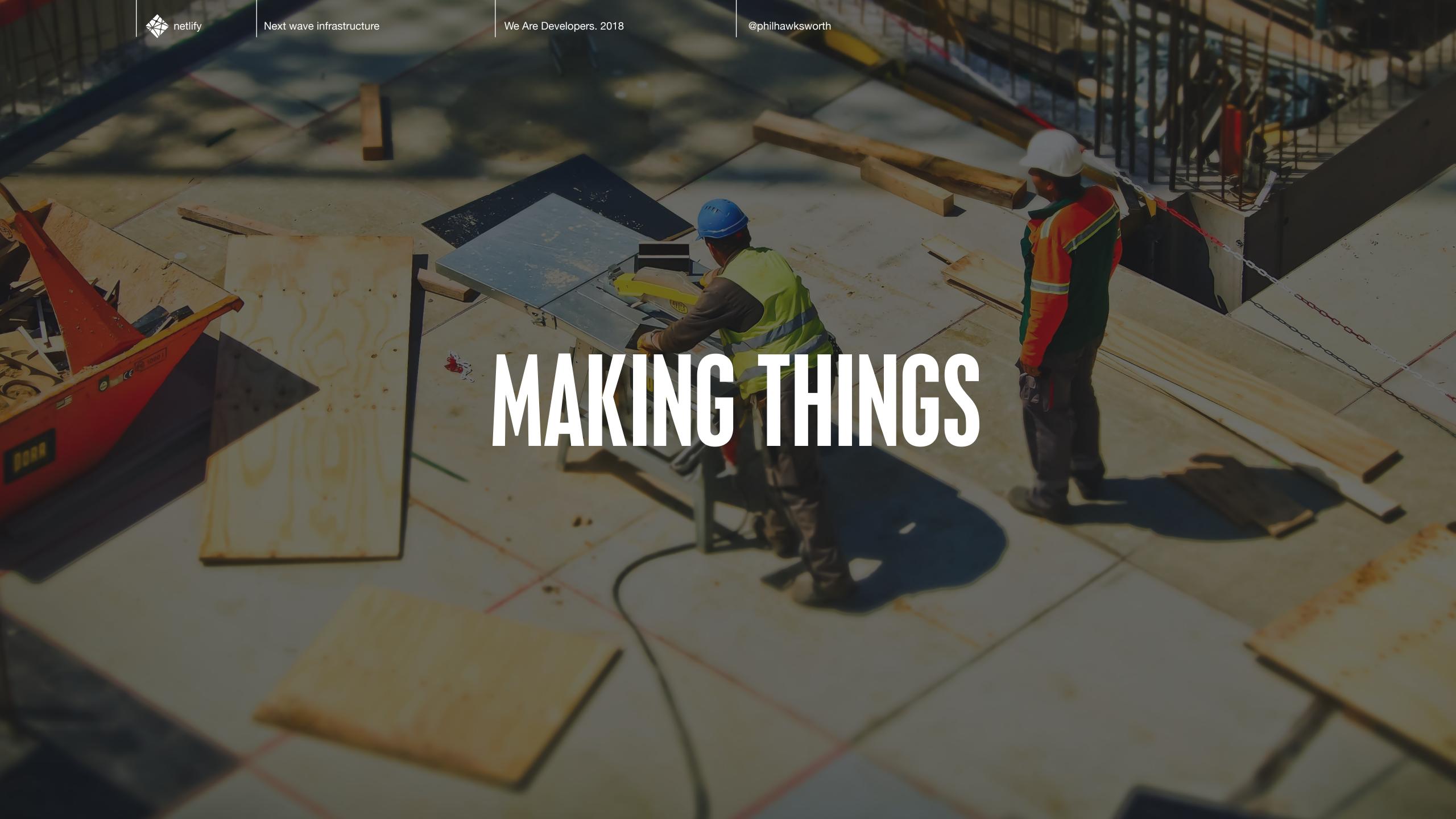












MY TRACK RECORD





STATIC SITES GO ALL HOLLYWOOD

FRONTEERS, AMSTERDAM, 2015



@PHILHAWKSWORTH

WPHILHAWKSWUKIH



SO, FOR THIS TALK

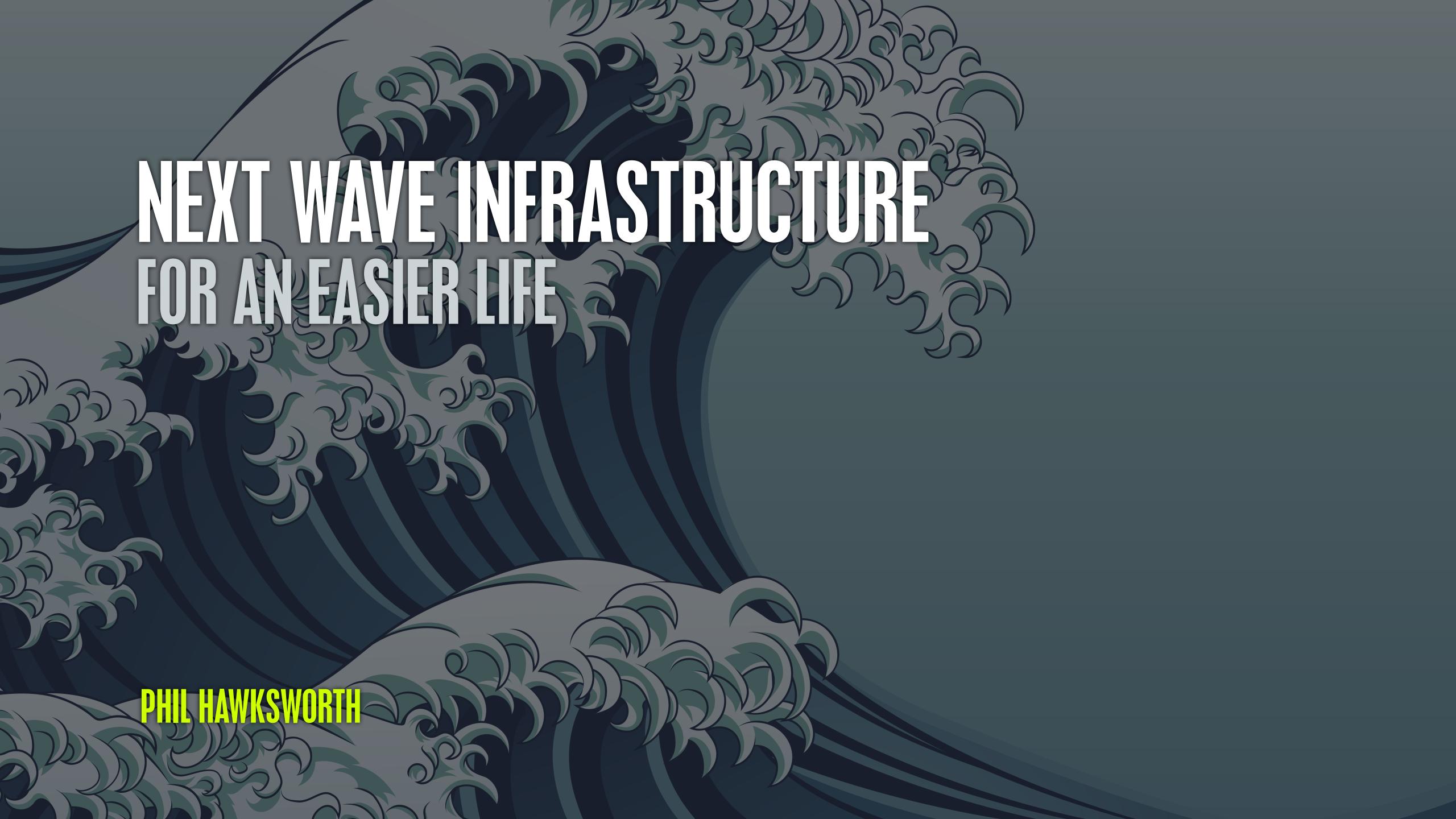
TIME TO JAZZ IT UP

NEXT WAVE INFRASTRUCTURE FOR AN EASIER LIFE

PHIL HAWKSWORTH

NEXT WAVE INFRASTRUCTURE FOR AN EASIER LIFE

PHIL HAWKSWORTH



EXOTIC OR NEW



WE LEARN A LOT ATCONFERENCES

~ 150 talks ?!

CONFINING THESE LEARNINGS TO THEORY IS A WASTE

CONFINING THESE LEARNINGS TO OUR LOCAL ENVIRONMENTS IS A WASTE

LET'S MAKE SURE THE GOOD STUFF REACHES YOUR USERS







Next wave infrastructure

We Are Developers. 2018

@philhawksworth

OH GREAT... 40 MINUTES OF SLIDES ABOUT PROCESS

ALL OF YOU, RIGHT NOW

FOR THE NEXT 40 MINUTES OR SO

/ WHERE DOES IT HURT? 13 STORIES MINDSETS AND RESOURCES

FOR THE NEXT 40 MINUTES OR SO

/ WHERE DOES IT HURT? /3 STORIES / MINDSETS AND RESOURCES

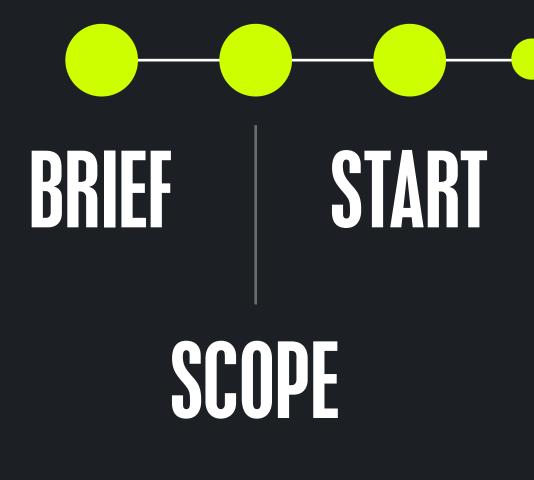
WHERE DOES IT HURT?

PROJECTS USUALLY INVOLVE CLIENTS / DEADLINES / COMPLEXITY

SLEEPLESS NIGHTS

THE PROJECT TIMELINE

FIXES



RE-SCOPE

CLIENT REVIEW

LAUNCH

AWARDS

"FINAL" SIGN OFF Serving for the win

JS Heros, 2018

@philhawksworth

LAUNCH DAY

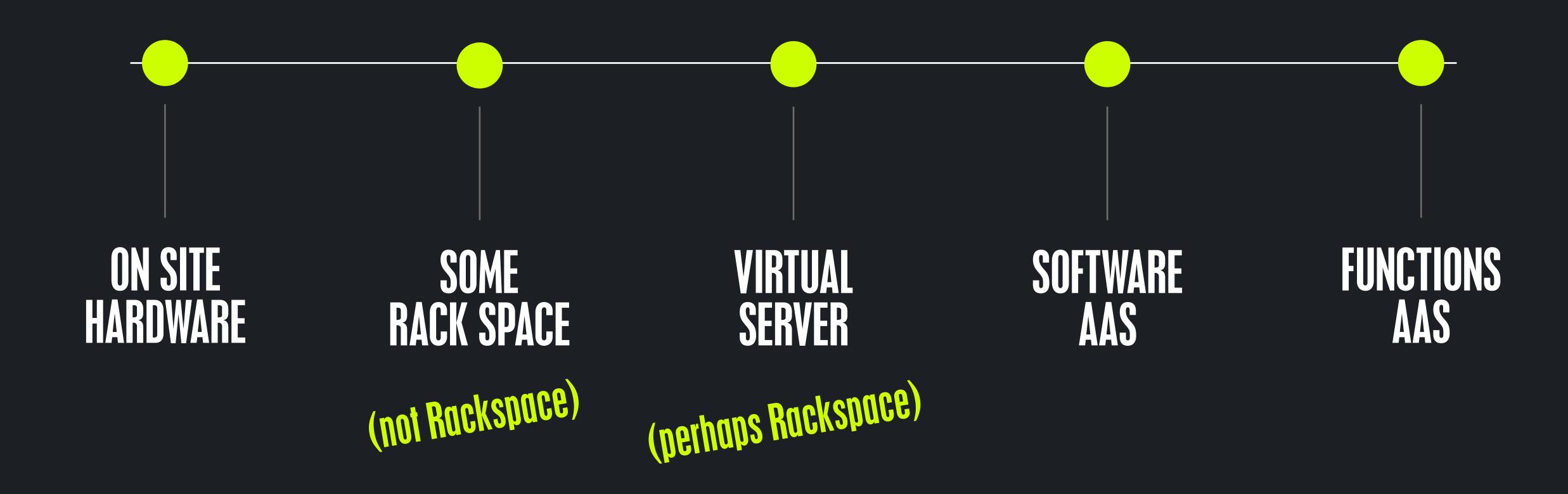
NEWSFLASH PROJECTS CAN BE HARD

PROJECTS USUALLY INVOLVE LEARNING

PROJECTS USUALLY INVOLVE CHANGE

INFRASTRUCTURE

OUR EVOLVING APPROACH TO INFRASTRUCTURE



NEW DEPLOYMENT



THIS IS WHERE IT HURTS MANAGINGGHANGE MANAGINGTHEUNKNOWABLE

AT CRUNCH TIME, AS THE PRESSURE MOUNTS

/ WHERE DOES IT HURT?
/ 3 STORIES
/ MINDSETS AND RESOURCES

JS Heros, 2018

TEPLOYING ON MY FIRST DAY

ALARGE NATION-WIDE HEALITICARES TE

IT SHOULD HAVE GONE LIVE ON FRIDAY

MY NEW BOSS



Next wave infrastructure

We Are Developers. 2018

@philhawksworth



CAN YOU HELP THE TEAM FIGURE OUT THE DEPLOYMENT?

"FIGURE OUT" DEPLOYMENT

THE PROJECT TIMELINE

FIXES

BRIEF START
SCOPE

RE-SCOPE

CLIENT REVIEW

LAUNCH

AWARDS

'FINAL'
SIGN OFF

THE DEPLOYMENT





BOB







PROD

FFFFFFFFFF

UNKNOWABLESTATE

UNREPEATABLE PROCESS

WAS IT CORRECT?

YES, IT DID

YES. PROBABLY. HONESTLY, I DON'T THINK WE CAN EVERY REALLY KNOW



DO YOU NEED A HUG?

I'M NOT READY TO TALK ABOUT THAT

YES. YES I DO



VERSION CONTROL SHOULD EXTEND TO YOUR DEPLOYMENTS

HUMAN INTERVENTION IN DEPLOYMENTS IS UNDESIRABLE

HOLISTIC DEPLOYS ARE PREFERABLE TO PIECEMEAL DEPLOYS

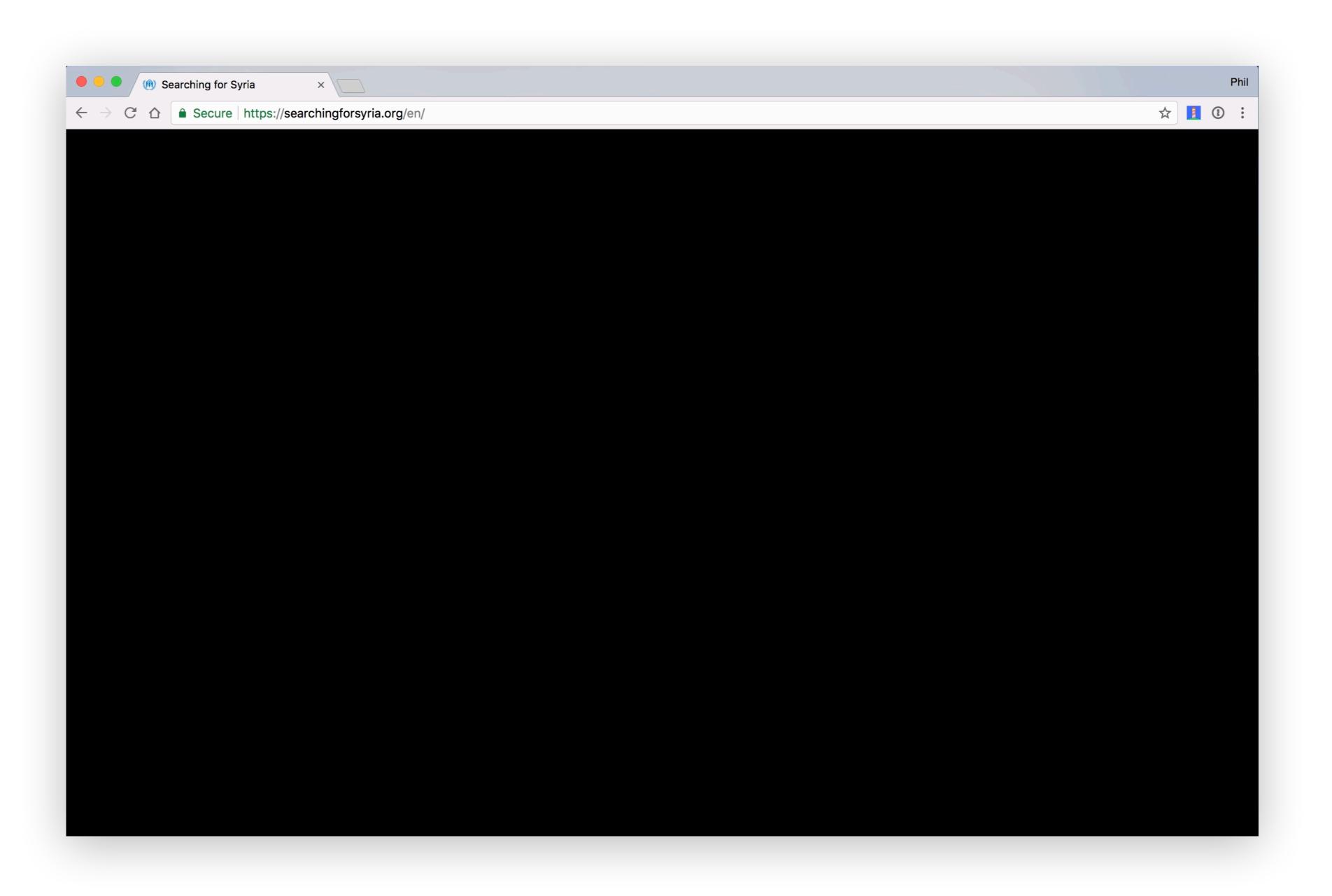
erving for the win

JS Heros, 2018

@philhawksworth







LOTS OF CHANGE

SIGNIFICANT POLITICAL SENSITIVITY

GREATER STAKEHOLDER DIVERSITY

We Are Developers. 2018

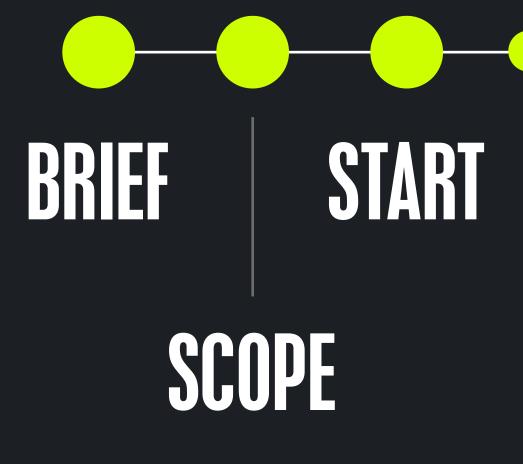
A GLOBAL LAUNCH



"FIGURE OUT" DEPLOYMENT

THE RICHEST PROJECT TIMELINE

FIXES



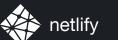
RE-SCOPE

CLIENT REVIEW

LAUNCH

AWARDS

'FINAL'
SIGN OFF



Next wave infrastructure

We Are Developers. 2018

@philhawksworth



DELIVERIES

DELIVER & QA

DELIVER & PRODUCERS

DELIVER TRANSLATIONS TEAMS



DELIVER THE CLIENT

DELIVER THE CLIENT'S BOSSES

LET'S DELIVER ANY VERSION AT ANY TIME

OUR AMBITION

VERSION CONTROL

TAGS SHOULD CREATE RESOURCES AT URLS

URLS FIW

Serving for the win

JS Heros, 2018

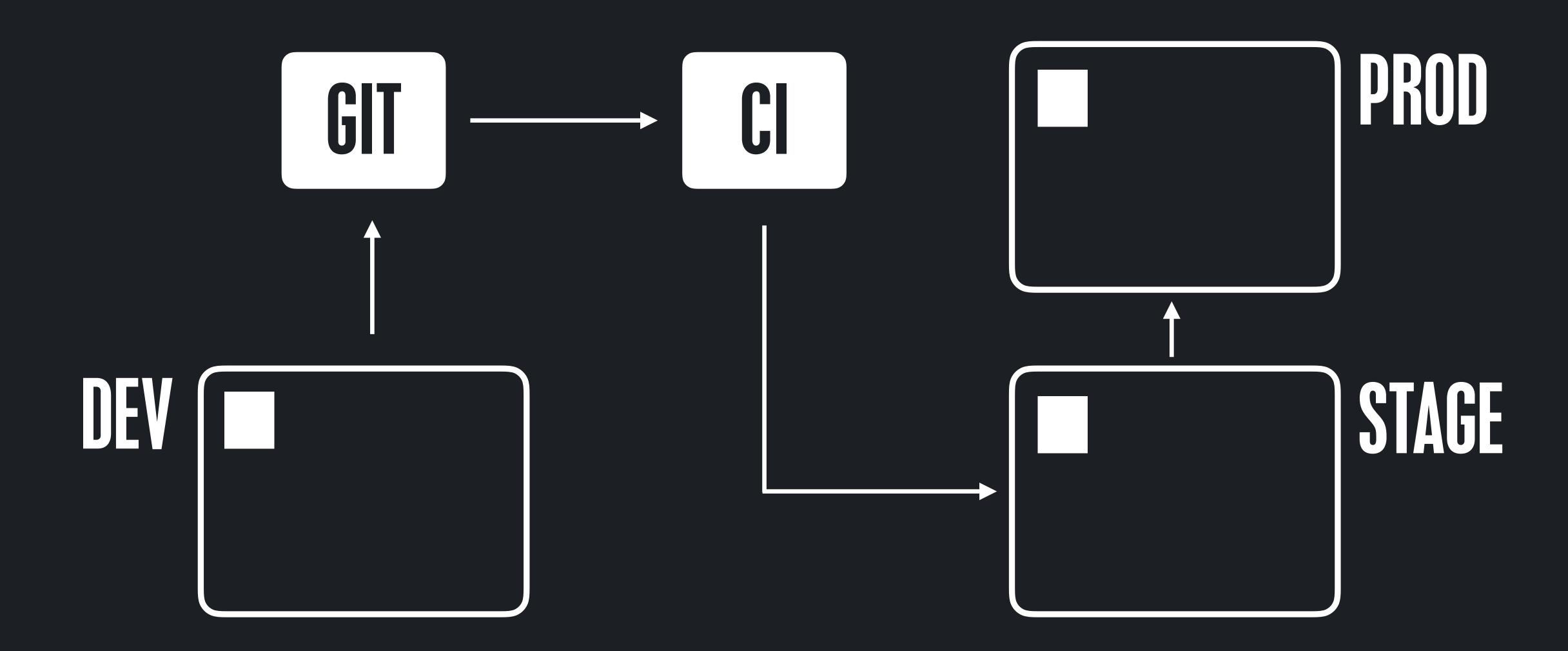
018 @philhawksworth

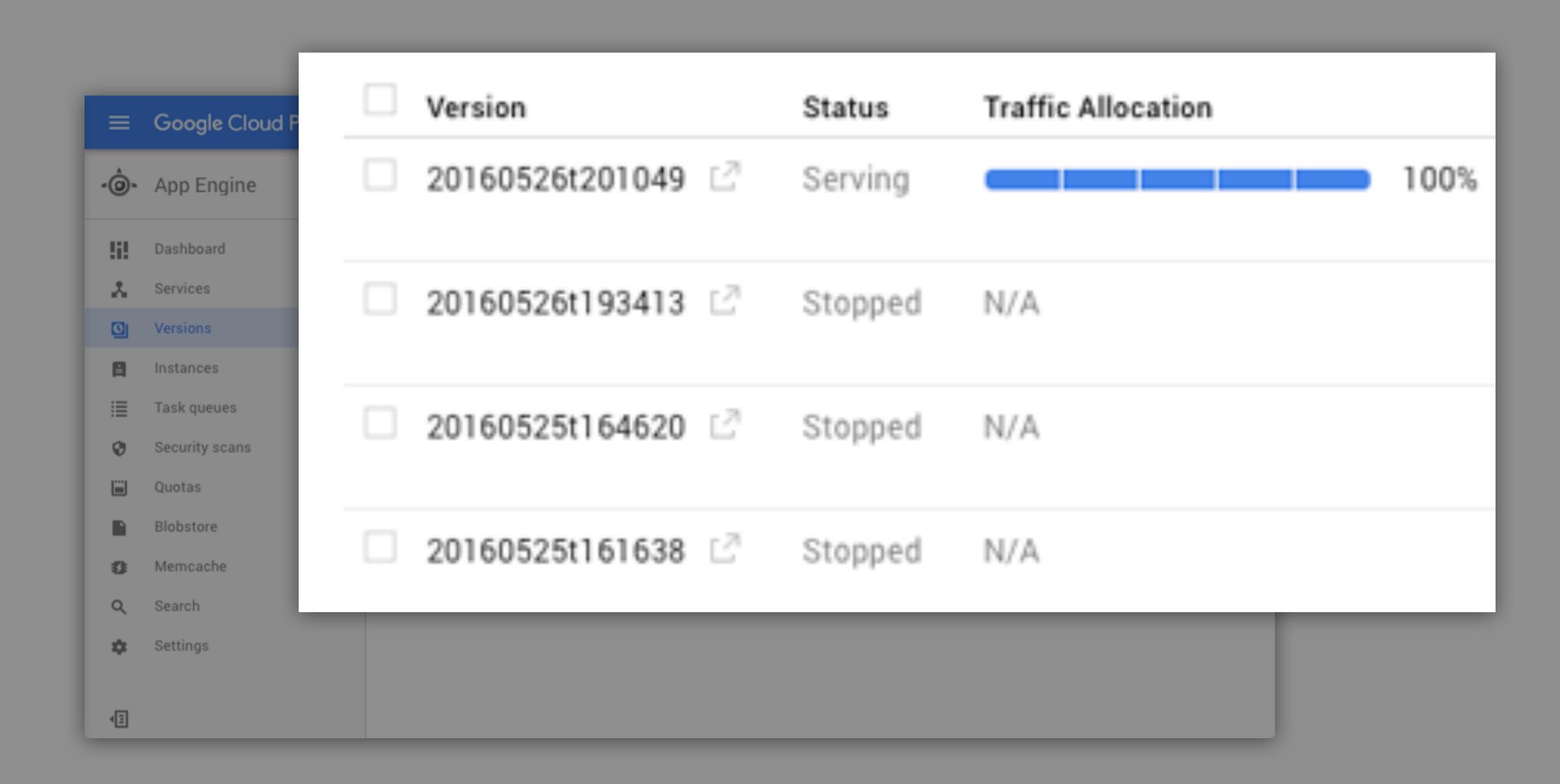
AITCH TEE TEE PEE DOUBLE MEH

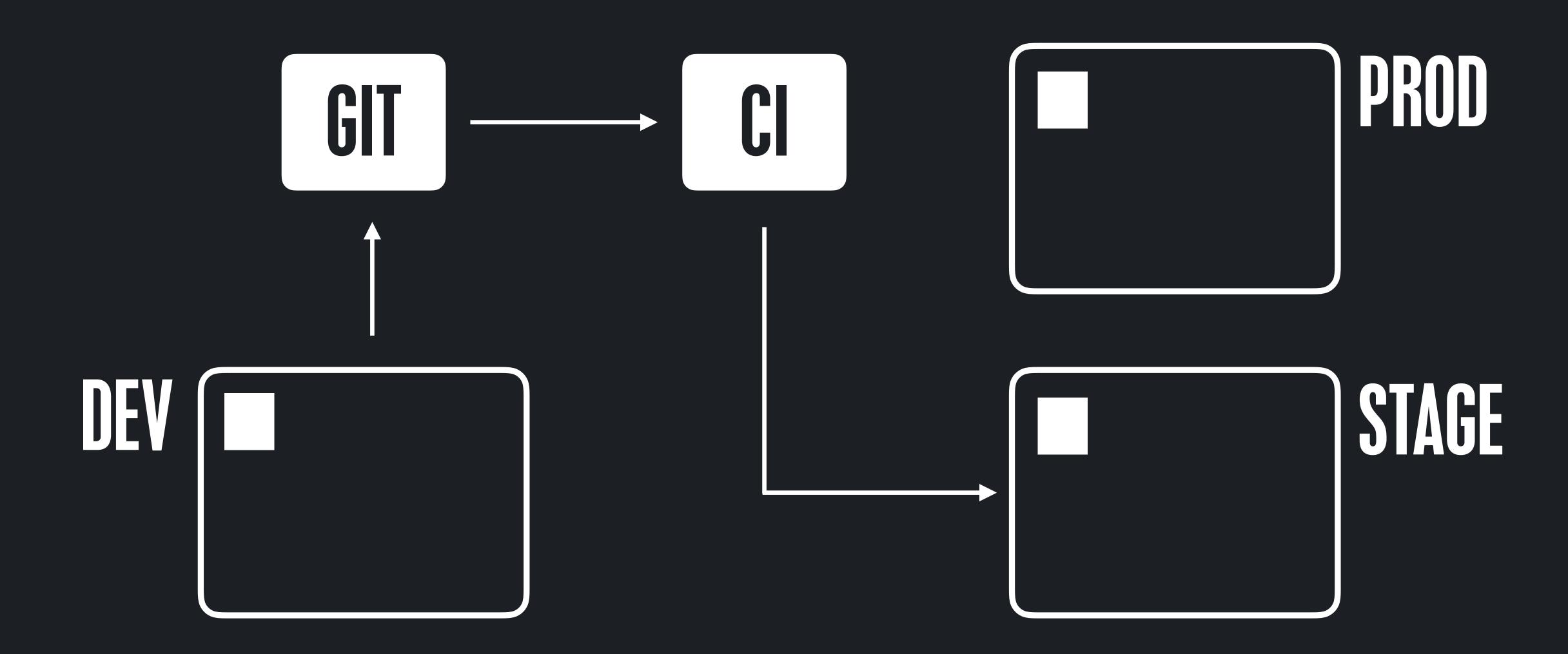
ALEX SEXTON

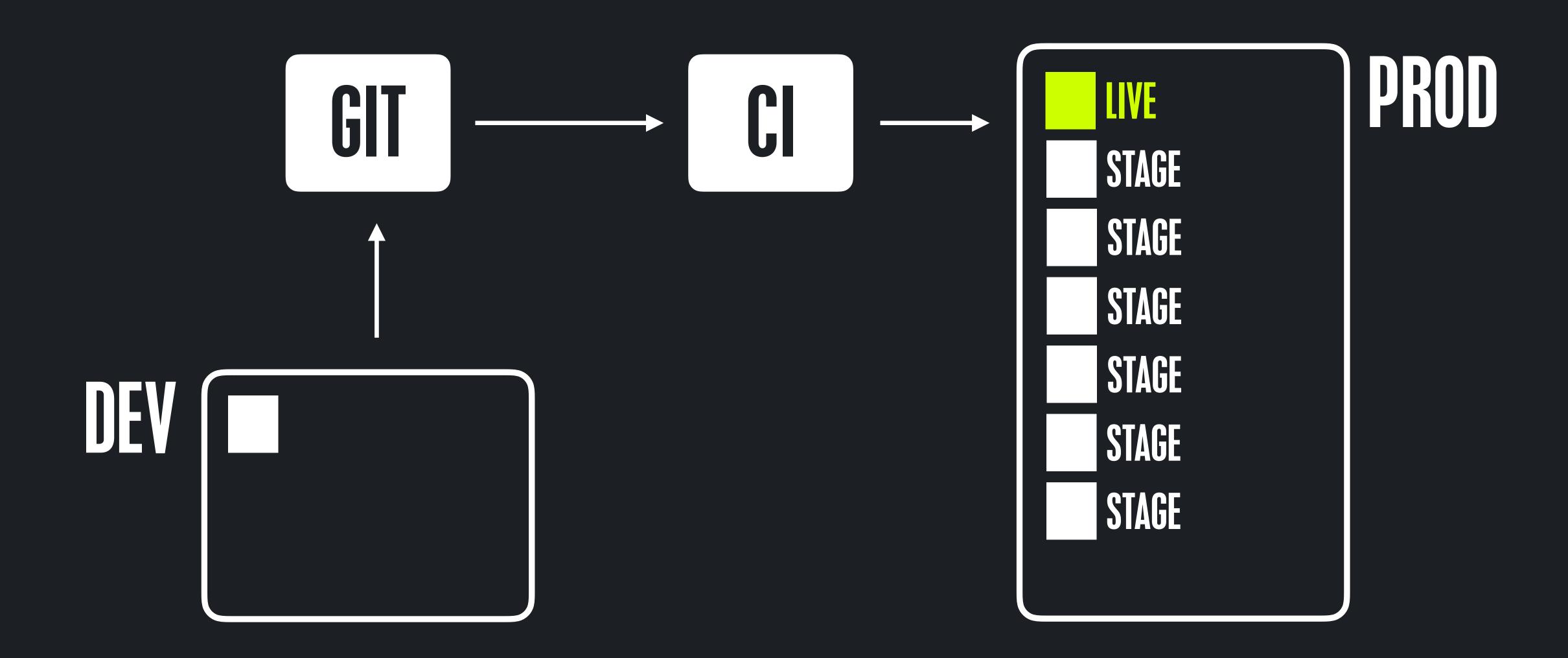
http://foobar.con

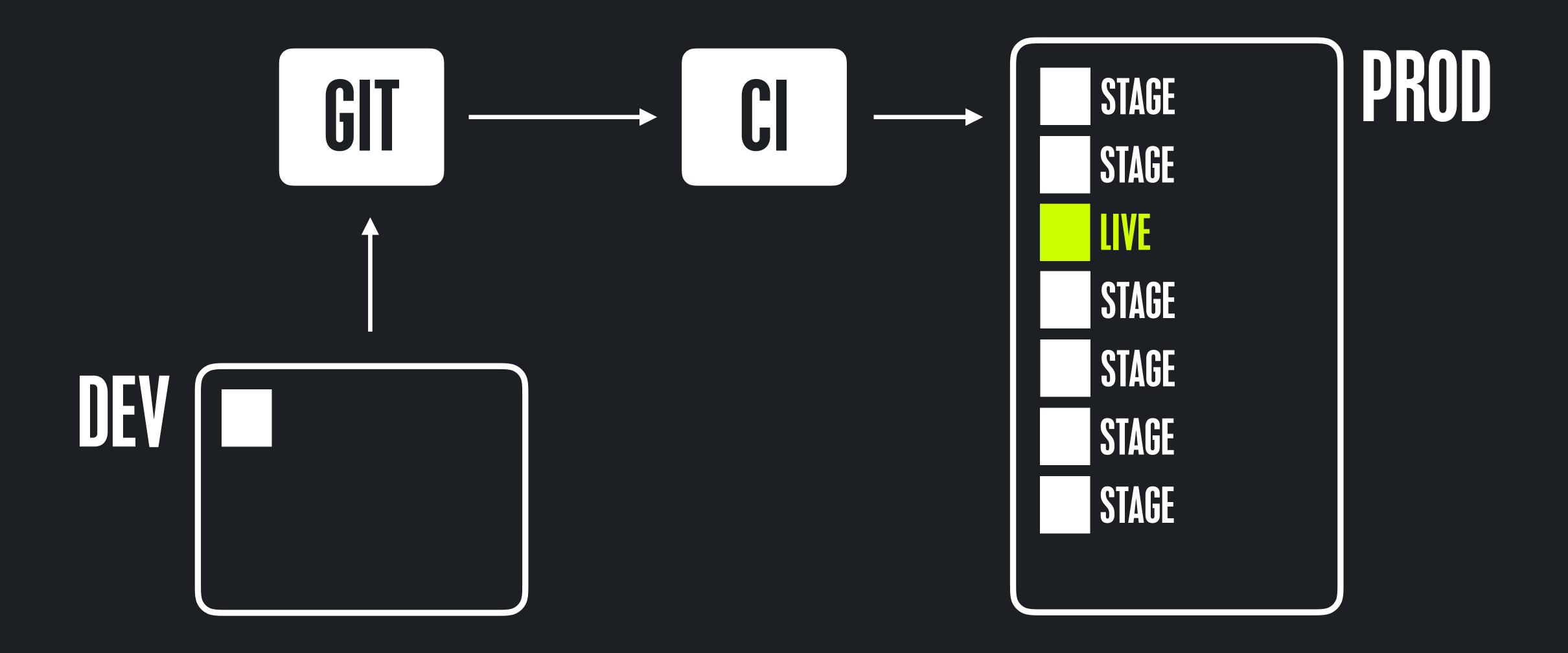
TAGS SHOULD CREATE RESOURCES AT URLS











DEMOS/DISCUSSIONS TESTS / ISSUES / SIGNOFF

ALL HAPPENED AGAINST KNOWN VERSIONS



ADDRESSABLE AND ACCESSIBLE BUILD VERSIONS ARE A HUGE WIN

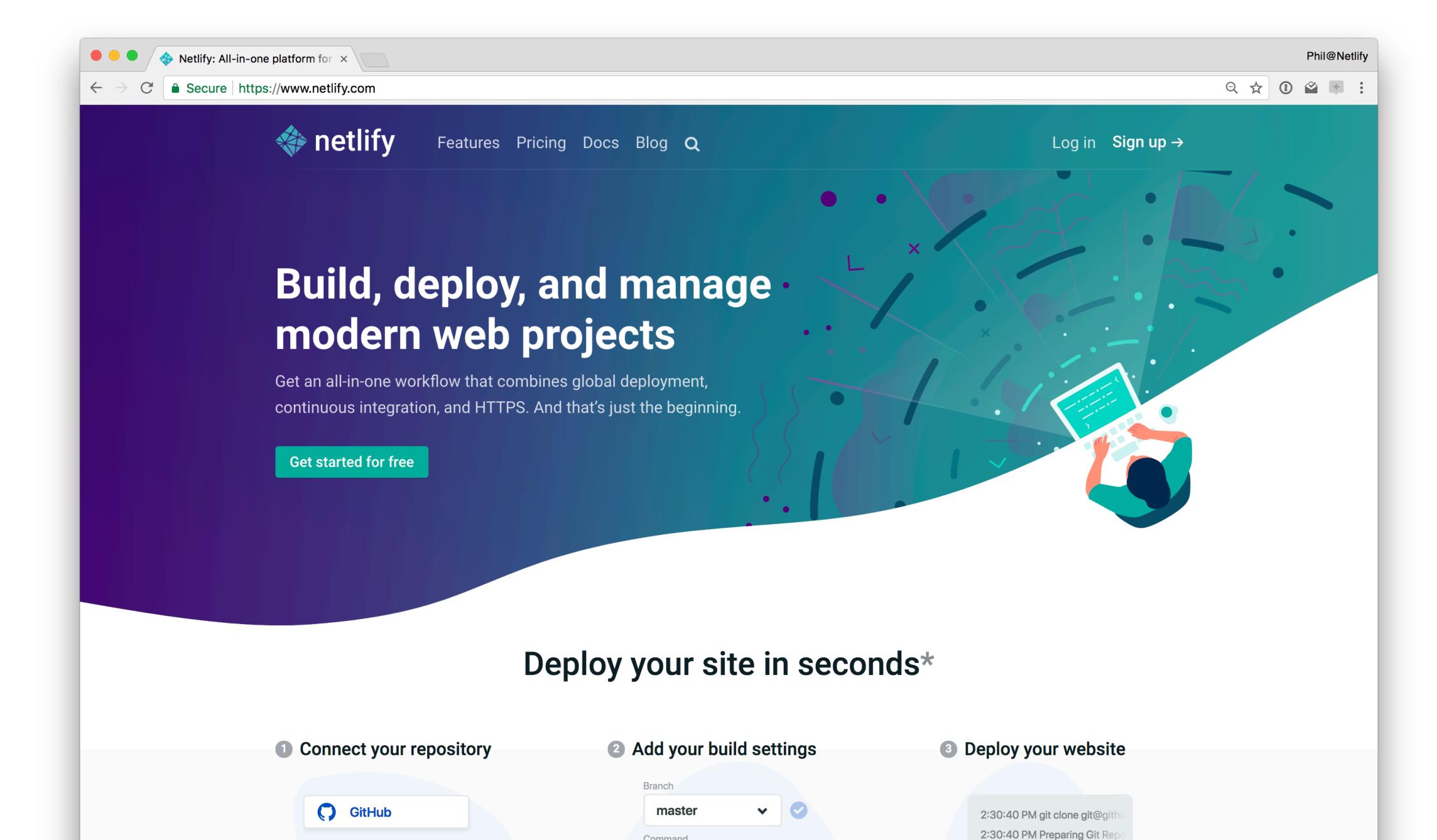
DECIDING WHEN AND WHAT TO TAG REQUIRES COORDINATION

IMMUTABLE DEPLOYS TO PROD REMOVE UNCERTAINTY FROM LAUNCH DAY

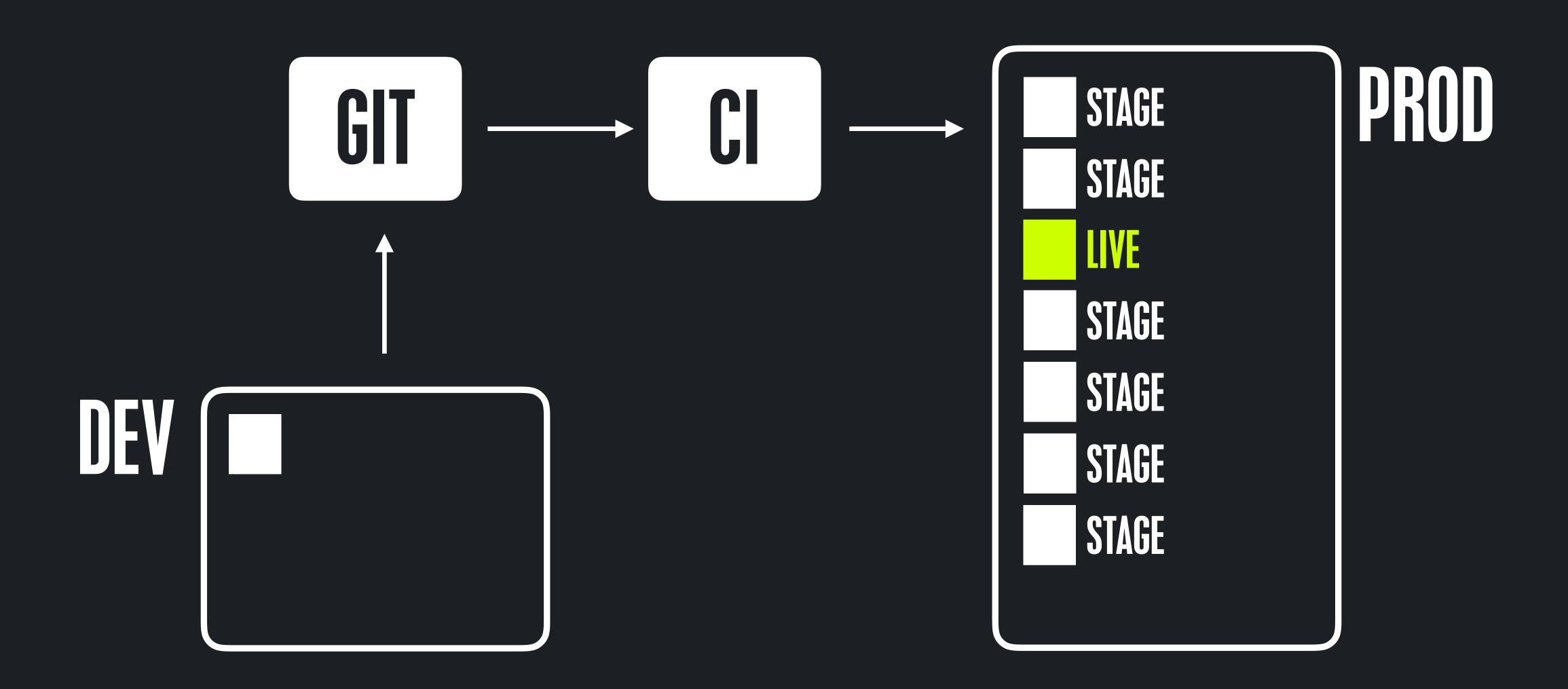
Serving for the win JS Heros, 2018 @philhawksworth

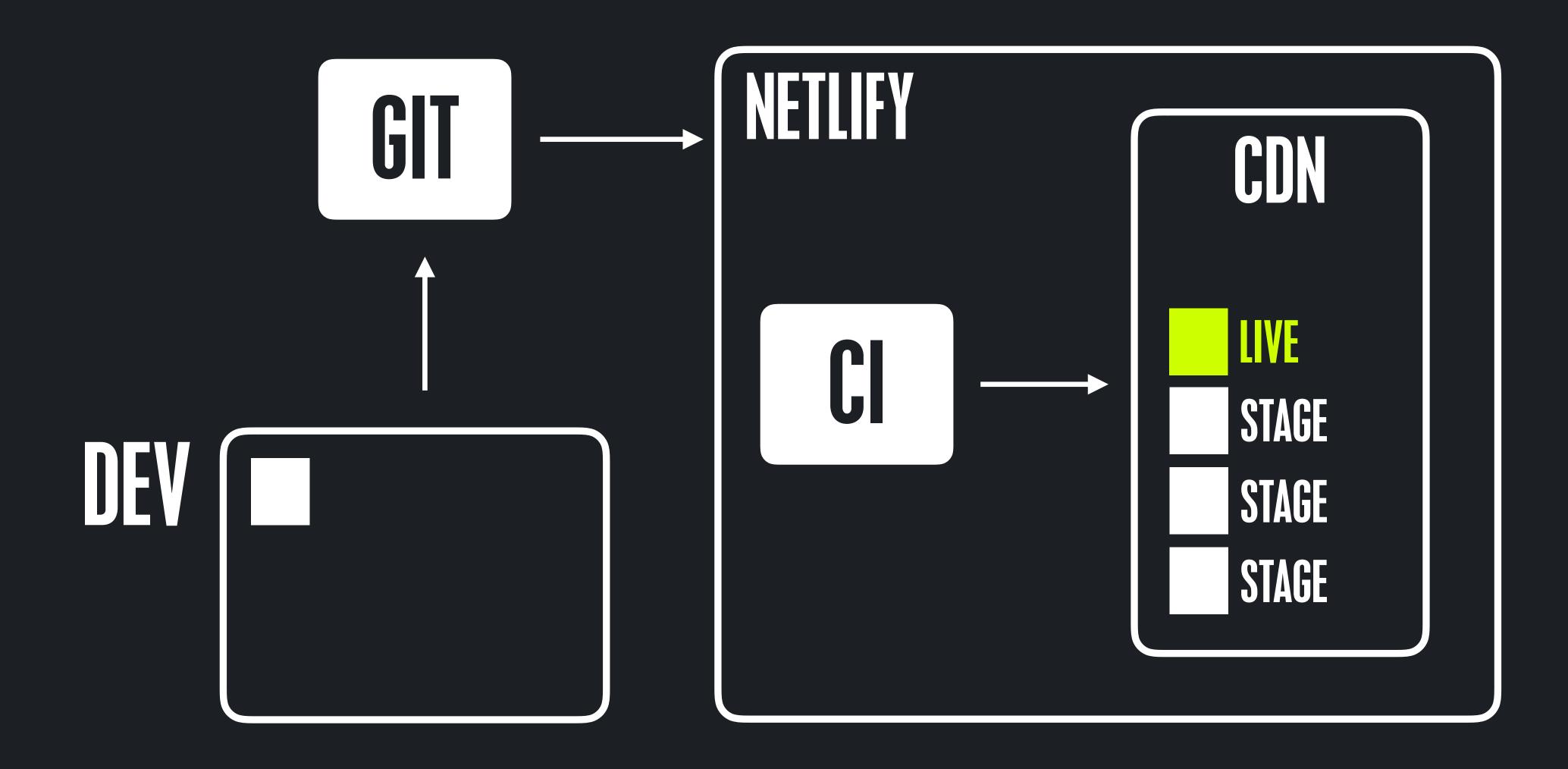
Story Three NETLIFY BUILDING NETLIFY





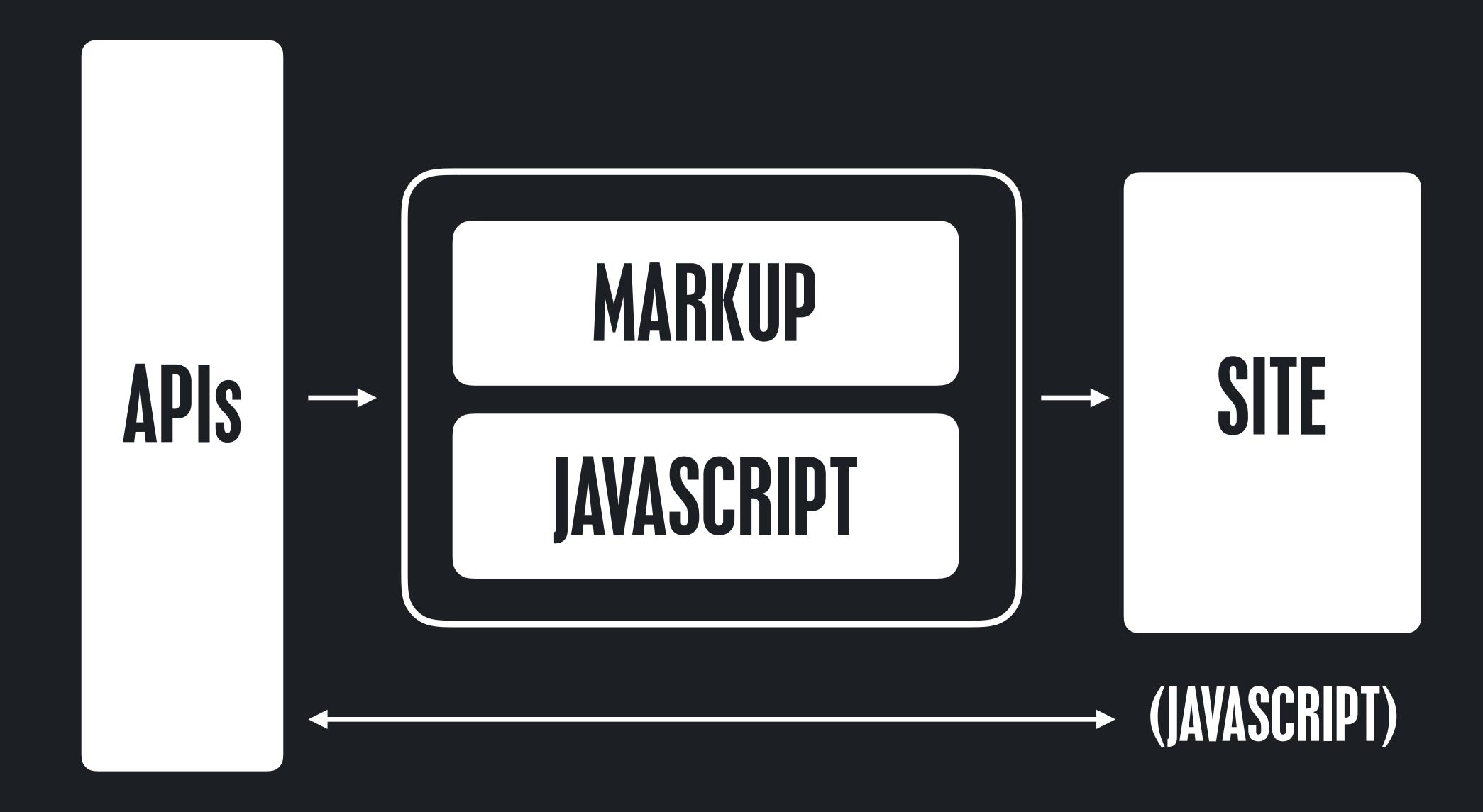


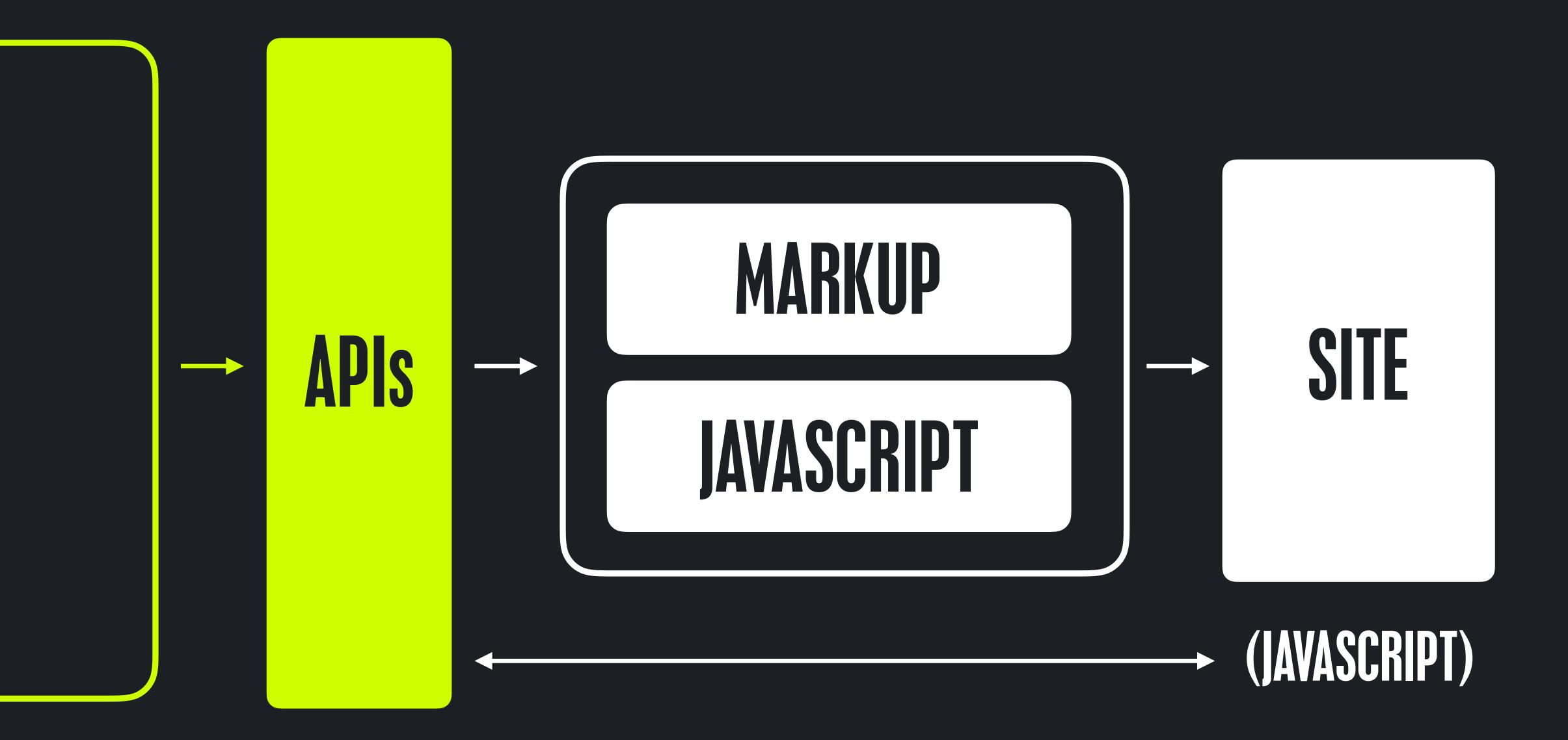




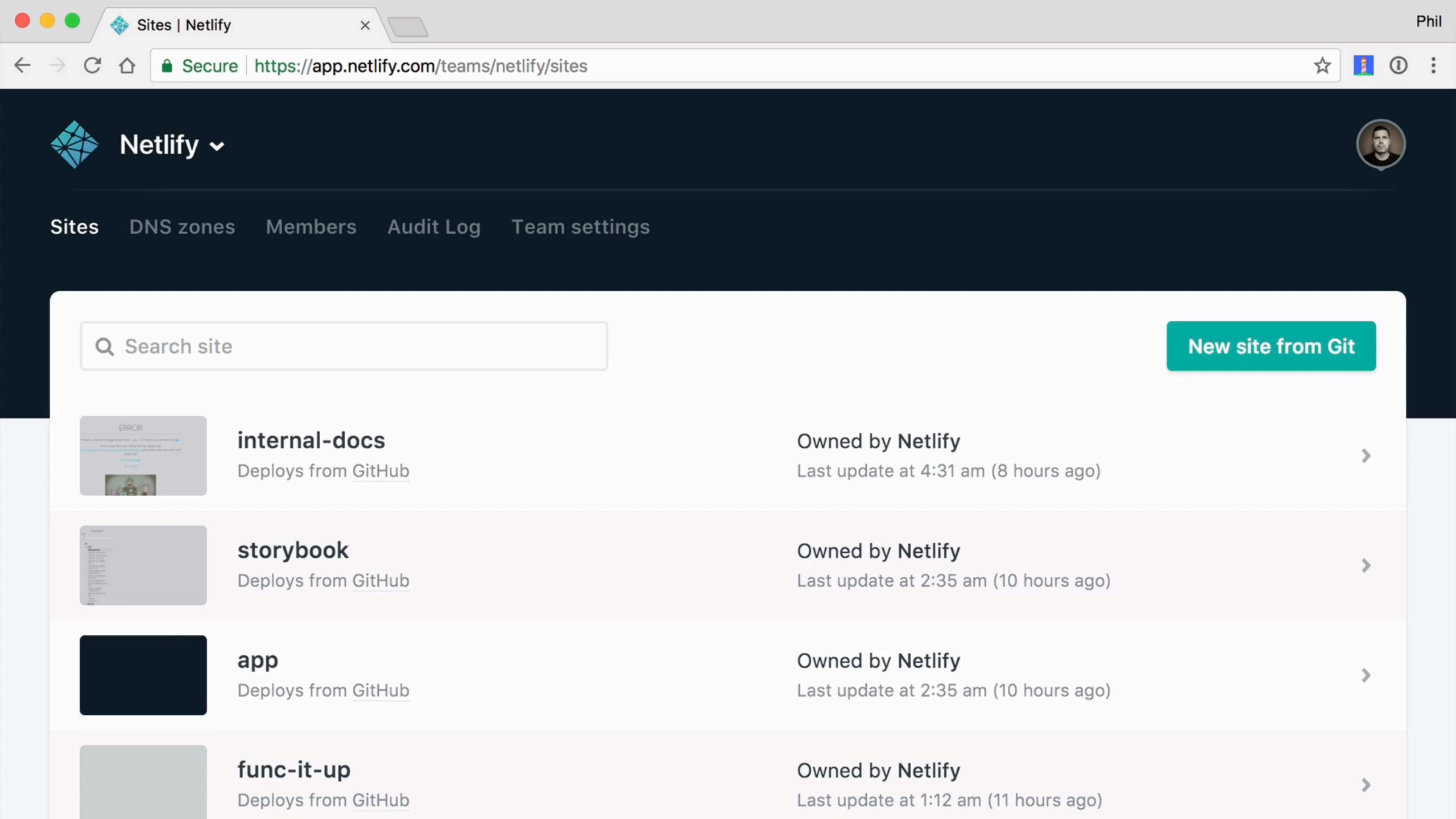
A GIT-BASED WORKFLOW ALL THE WAY TO PRODUCTION

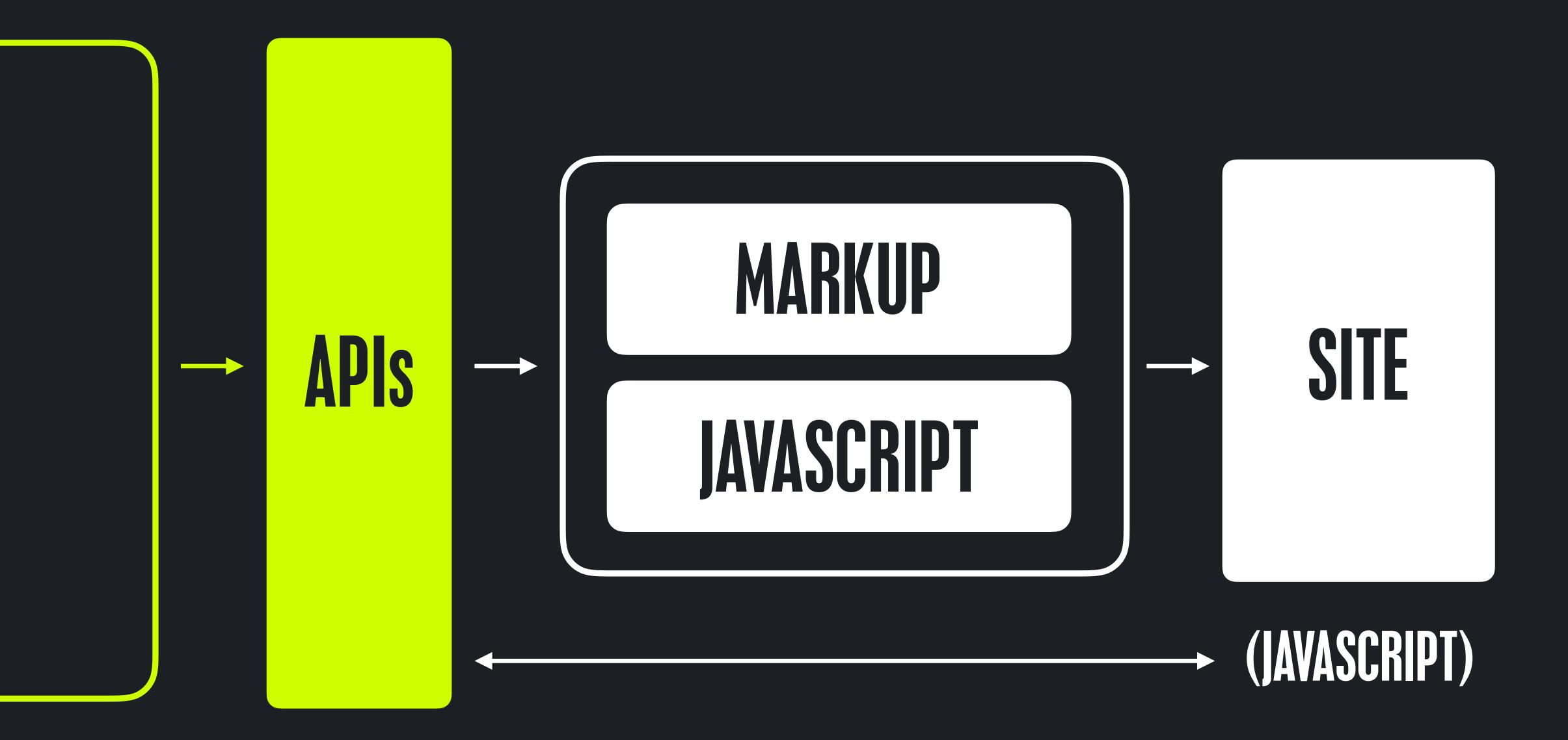






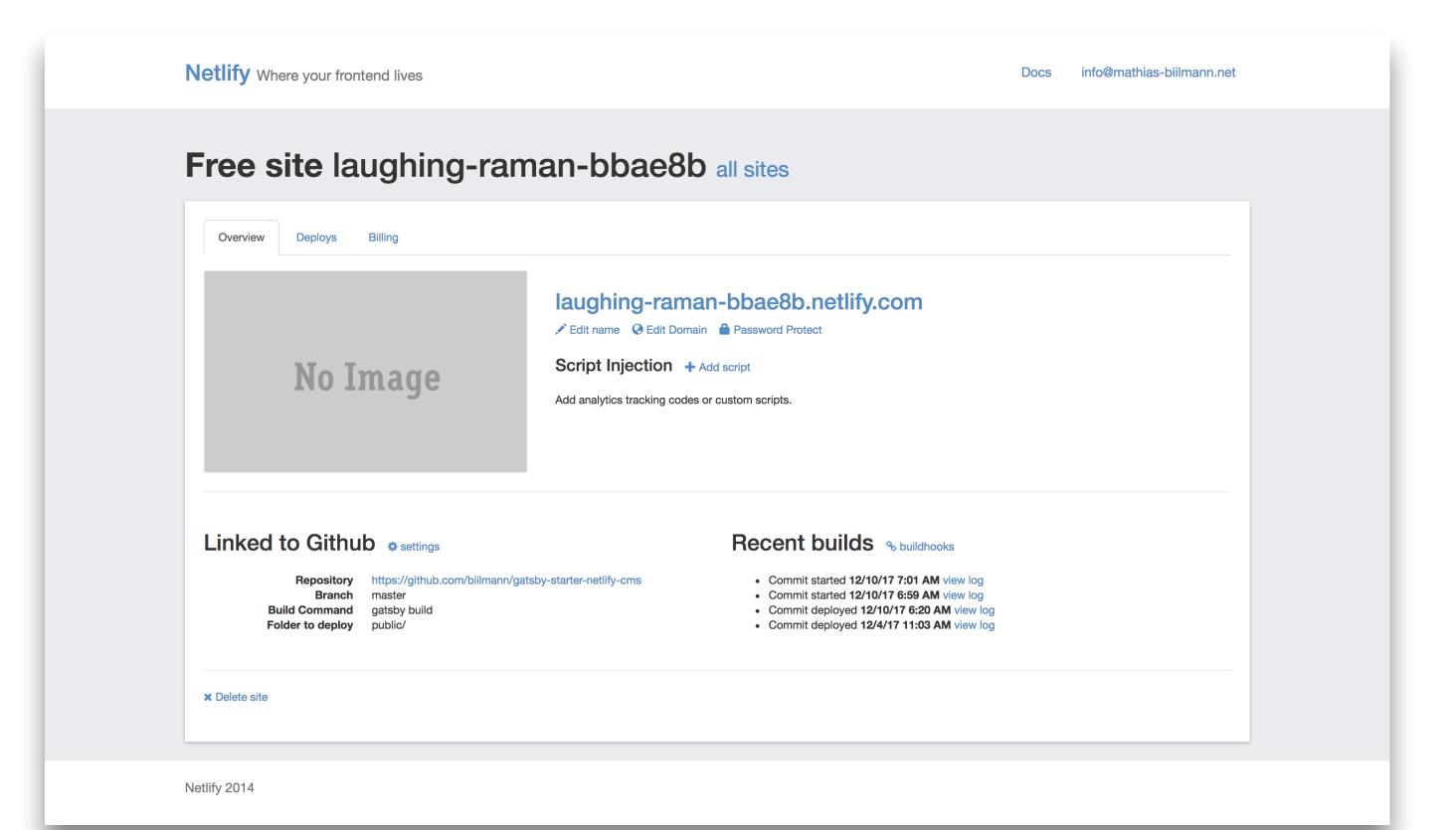
BUILDS ARE BASED ON GIT COMMIS, SO WE HAVE HISTORY



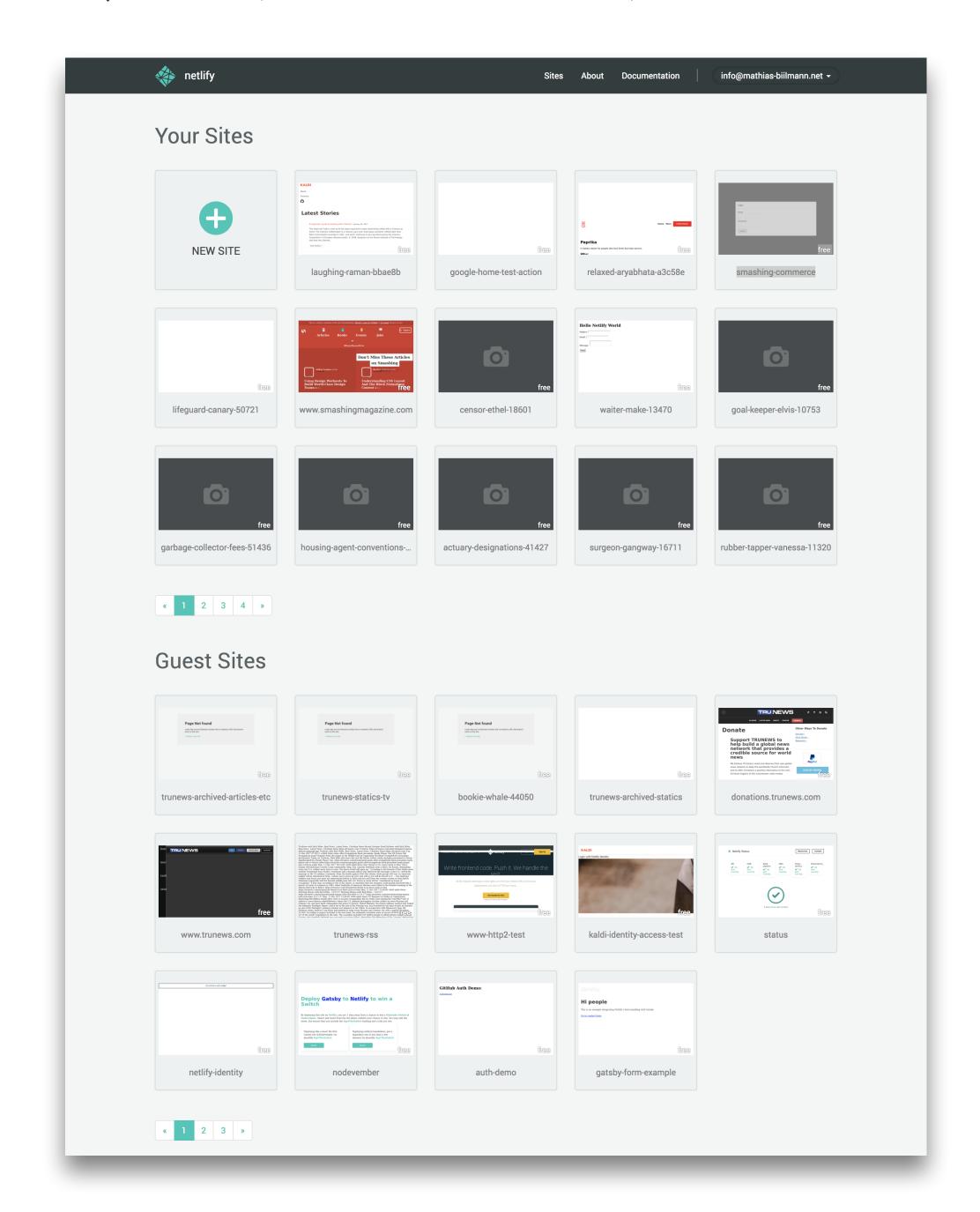


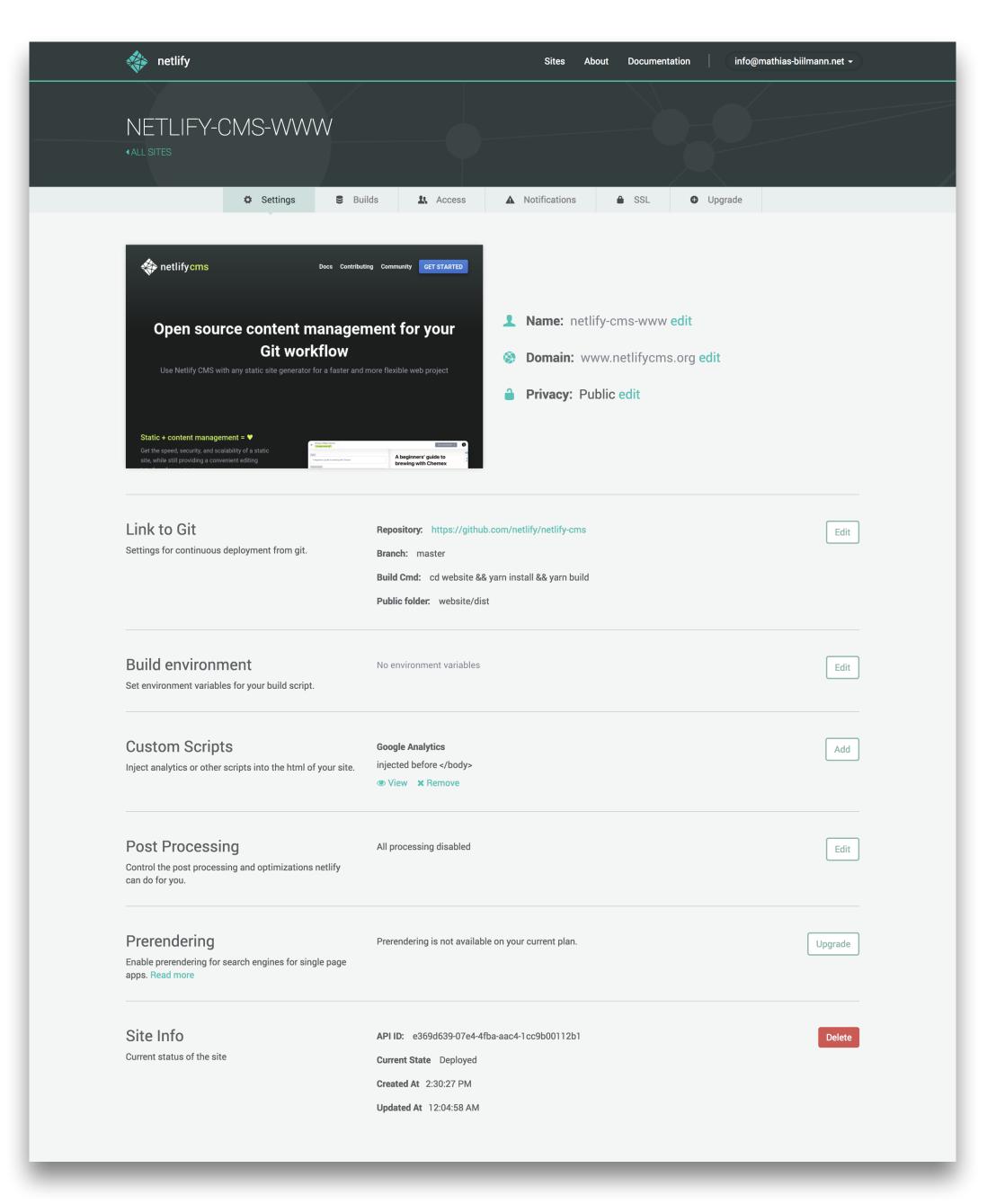


Serving for the win JS Heros, 2018

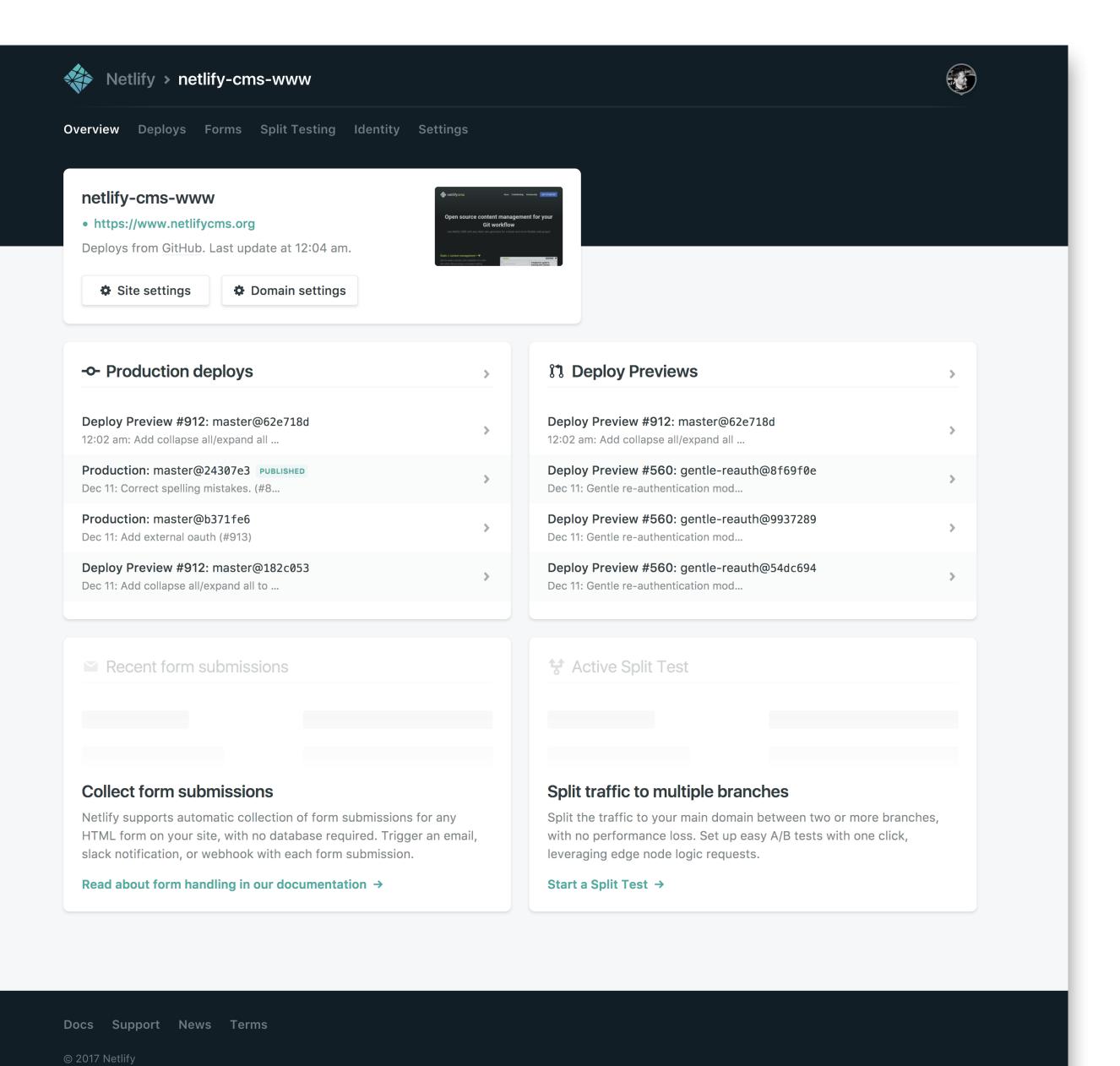


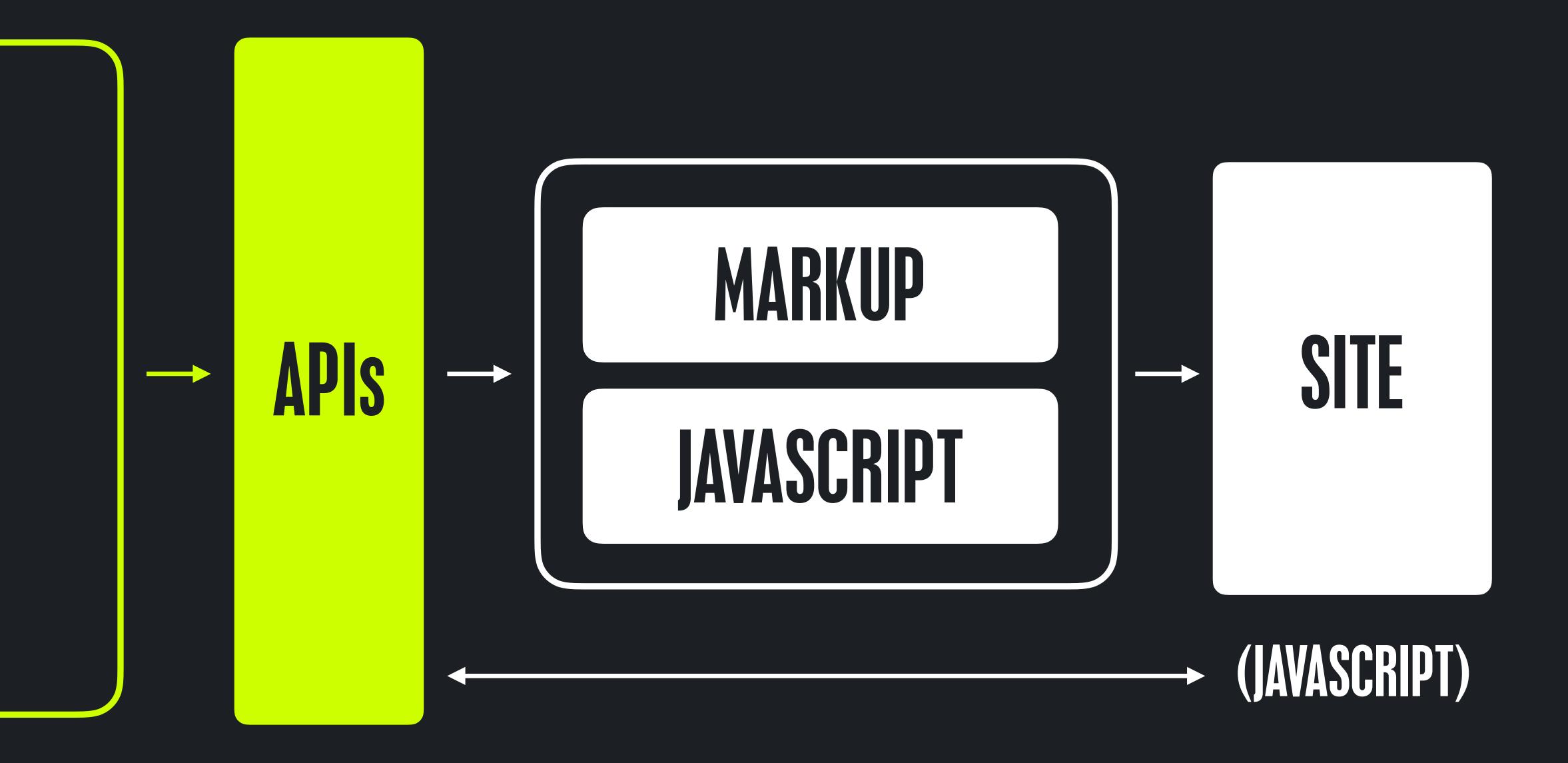
@philhawksworth





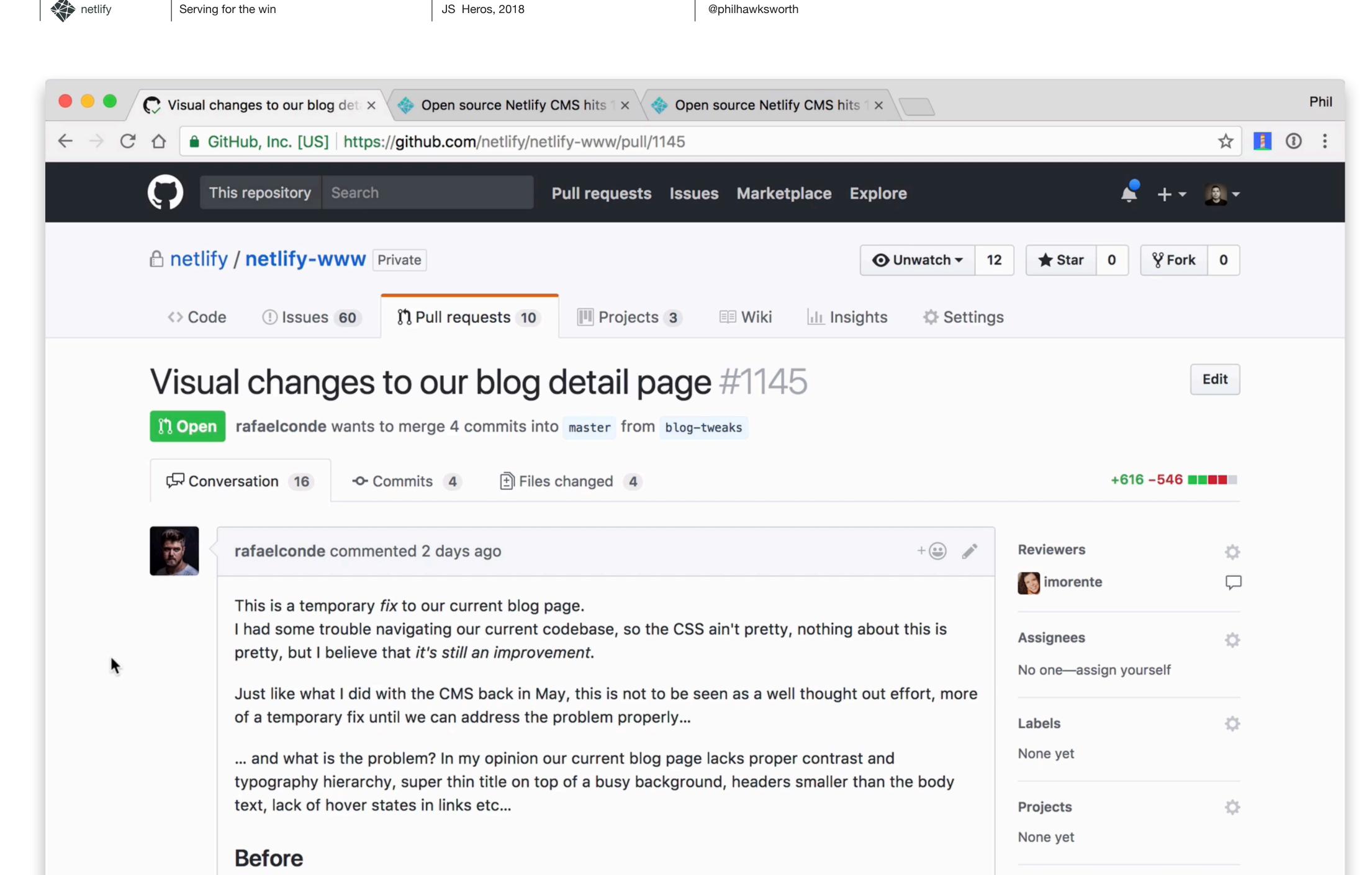
ocs Support News Terms





AUTOMATION BASED ON GIT ACTIVITY

GENERATING PREVIEWS FROM PULL REQUESTS



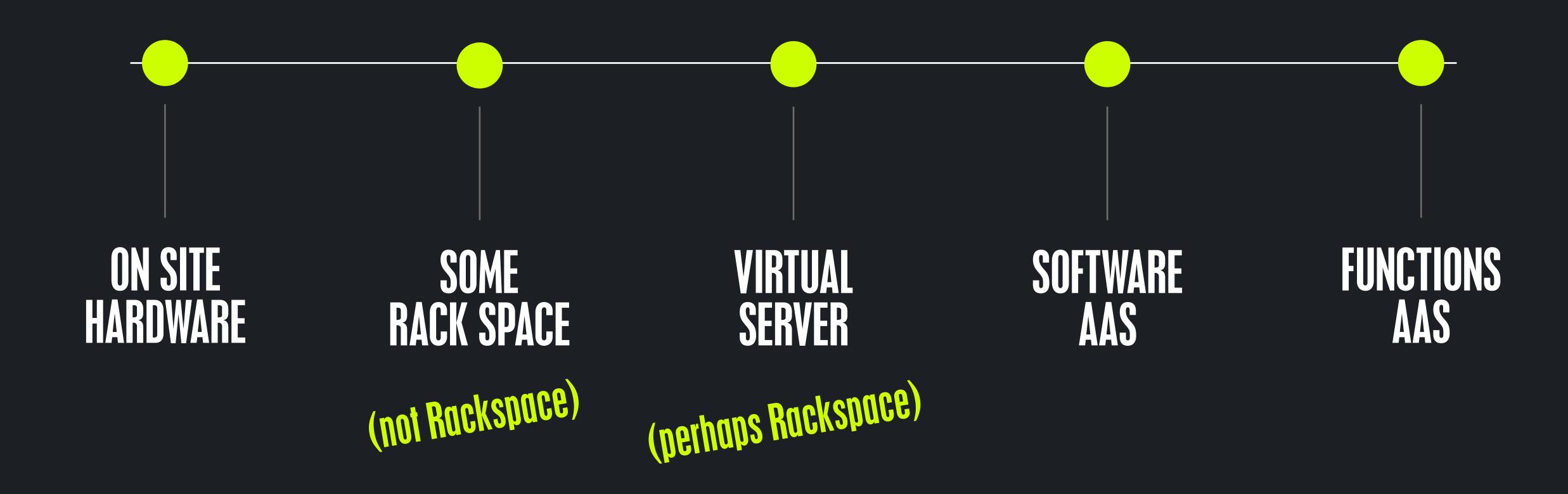
CONFIDENCE IN THE FUTURE STATE

netlify

VERSION CONTROL SHOULD EXTEND TO YOUR DEPLOYMENTS

PHIL, 20 MINUTES AGO

OUR EVOLVING APPROACH TO INFRASTRUCTURE



OUR EVOLVING APPROACH TO INFRASTRUCTURE

ON SITE HARDWARE

SOME RACK SPACE

(not Rackspace)

VIRTUAL SERVER

(perhaps Rackspace)

SOFTWARE AAS FUNCTIONS AAS

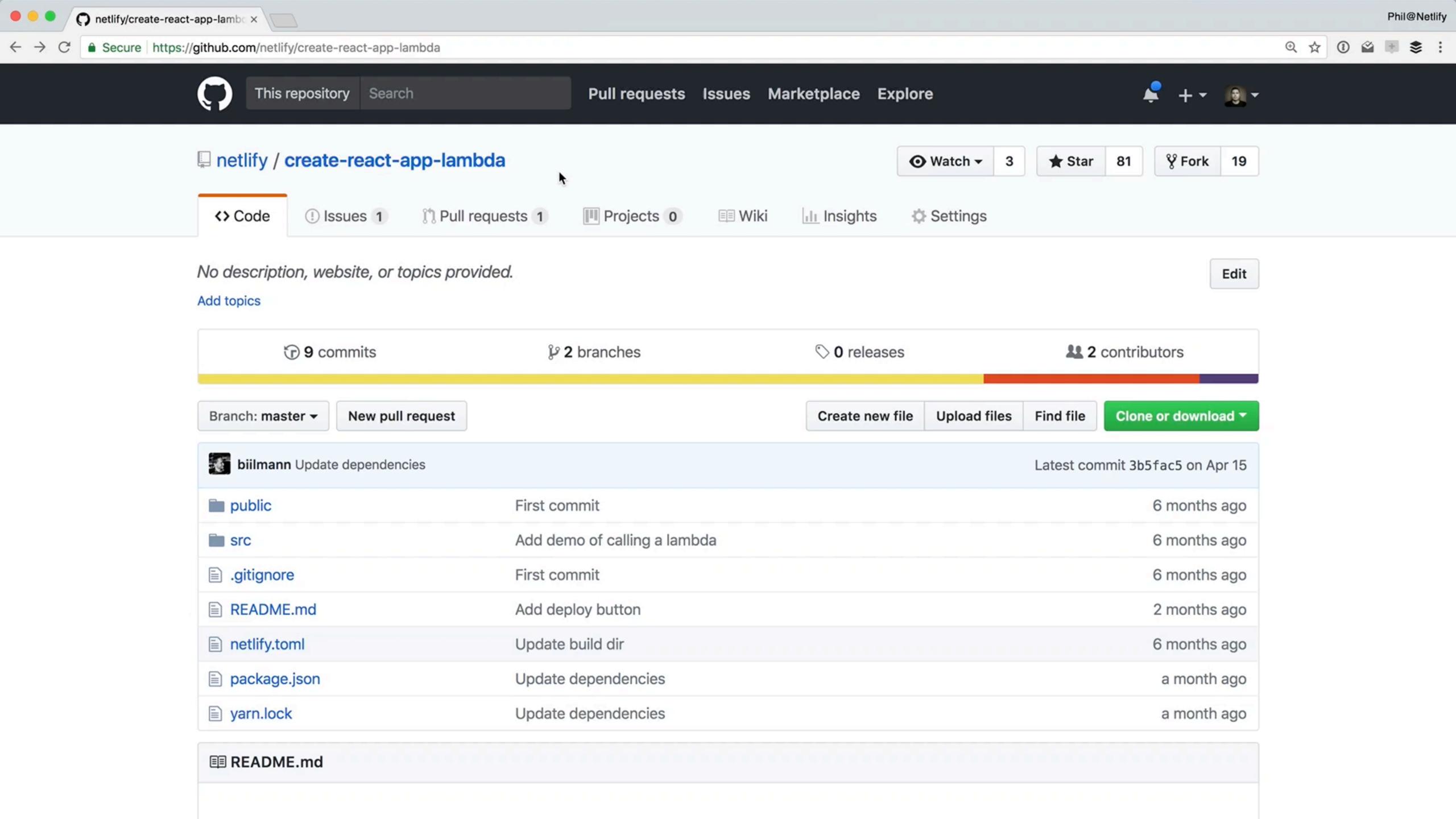


Next wave infrastructure

We Are Developers. 2018

@philhawksworth





A SERVERLESS WORKFLOW works

- POWERED BY VERSION CONTROL ACTIONS
- AUTOMATICALLY GENERATING VERSIONED LAMBDAS
- IMMUTABLE DEPLOYMENTS
- INSTANT PROVISIONING OF UNLIMITED STAGING ENVIRONMENTS



EMBRACING VERSION CONTROL CONVENTIONS REMOVES NEED TO REINVENT THEM

REDUCED FRICTION BRINGS AGILITY AND CONFIDENCE

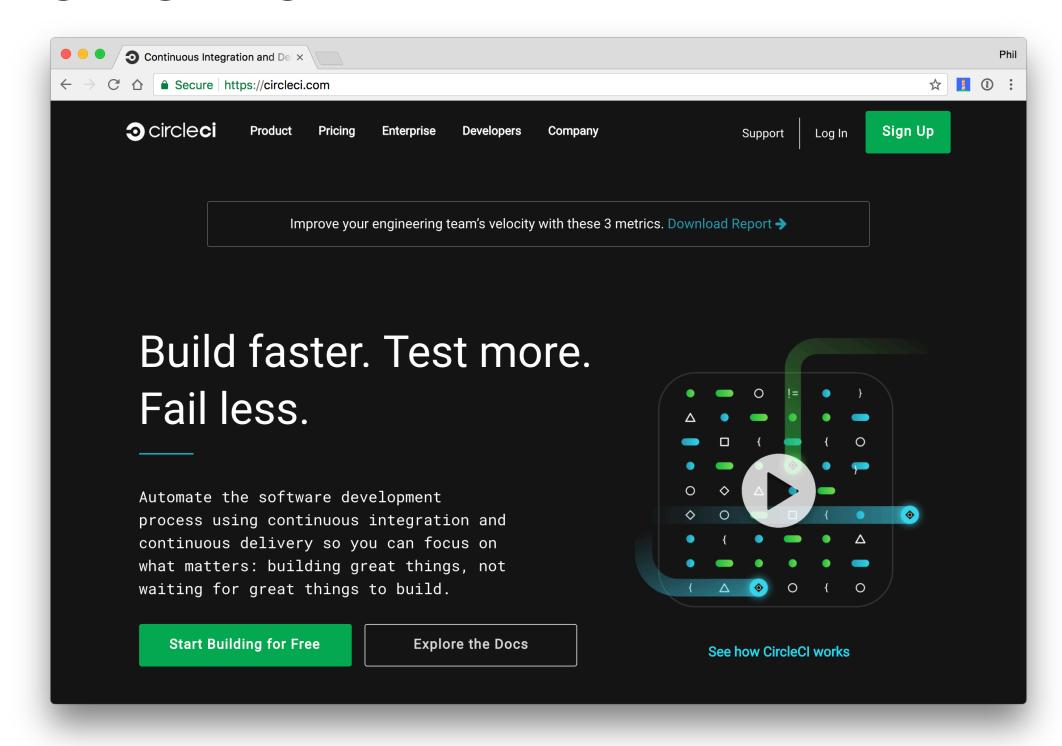
JAMSTACK GOES BEYOND STATIC SITES

FOR THE NEXT 40 MINUTES OR SO

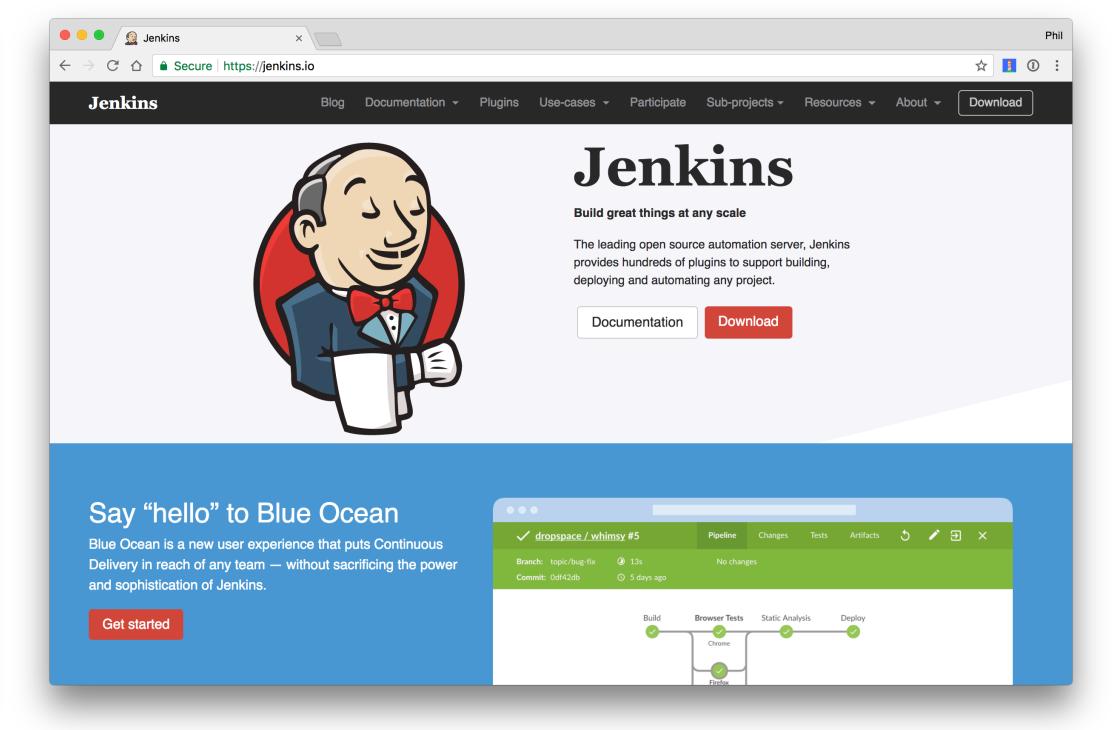
/ WHERE DOES IT HURT?
/ 3 STORIES
/ MINDSETS AND RESOURCES

RESOURCES

CIRCLE CI

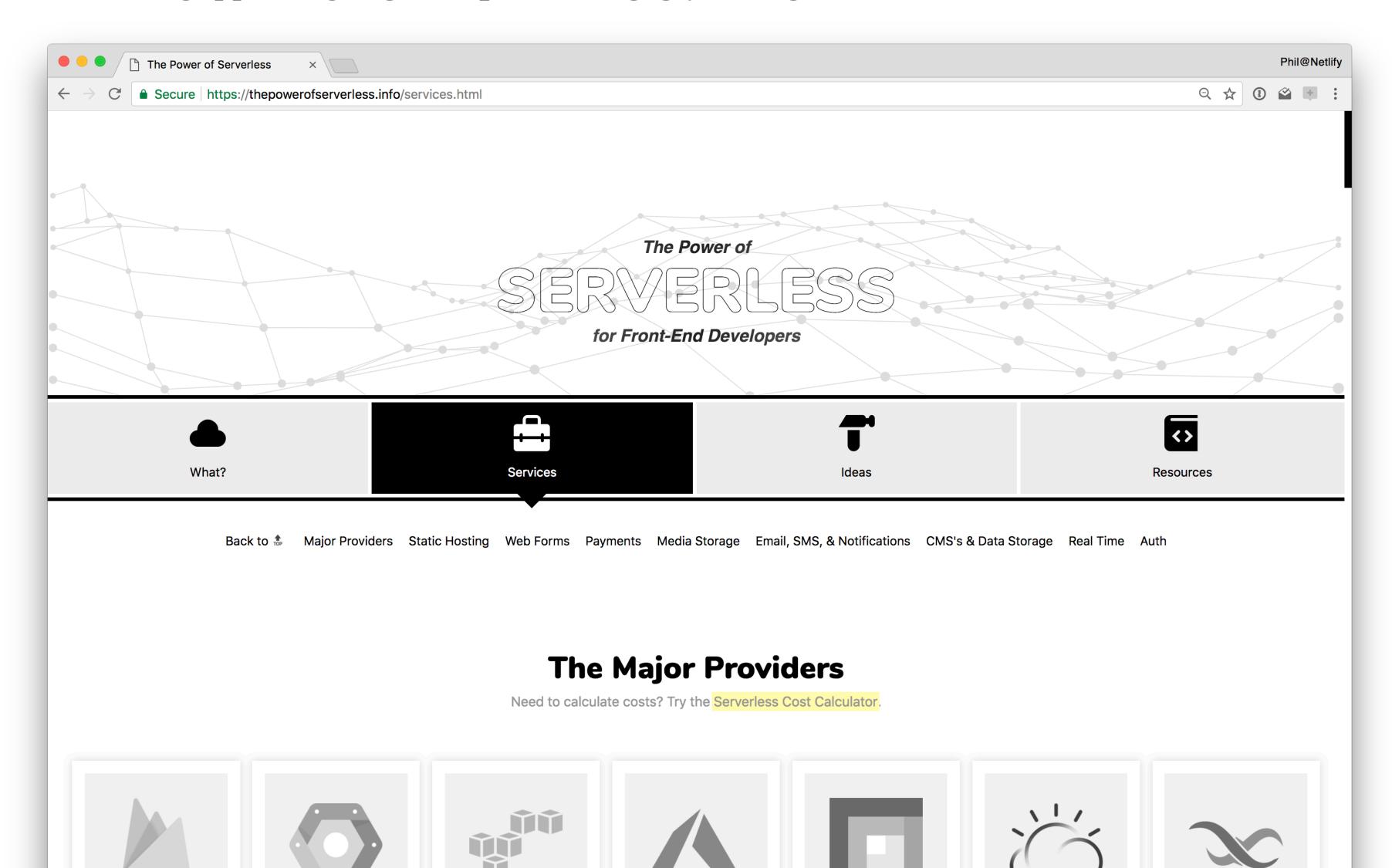


JENKINS



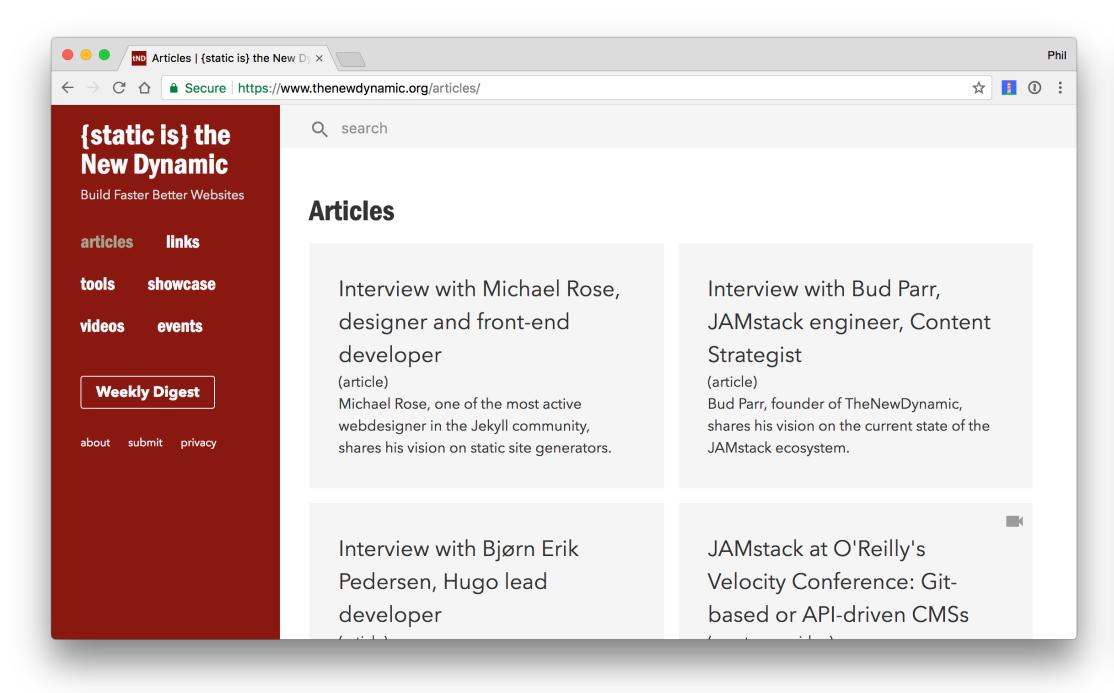
THEPOWEROFSERVERLESS.INFO

JS Heros, 2018

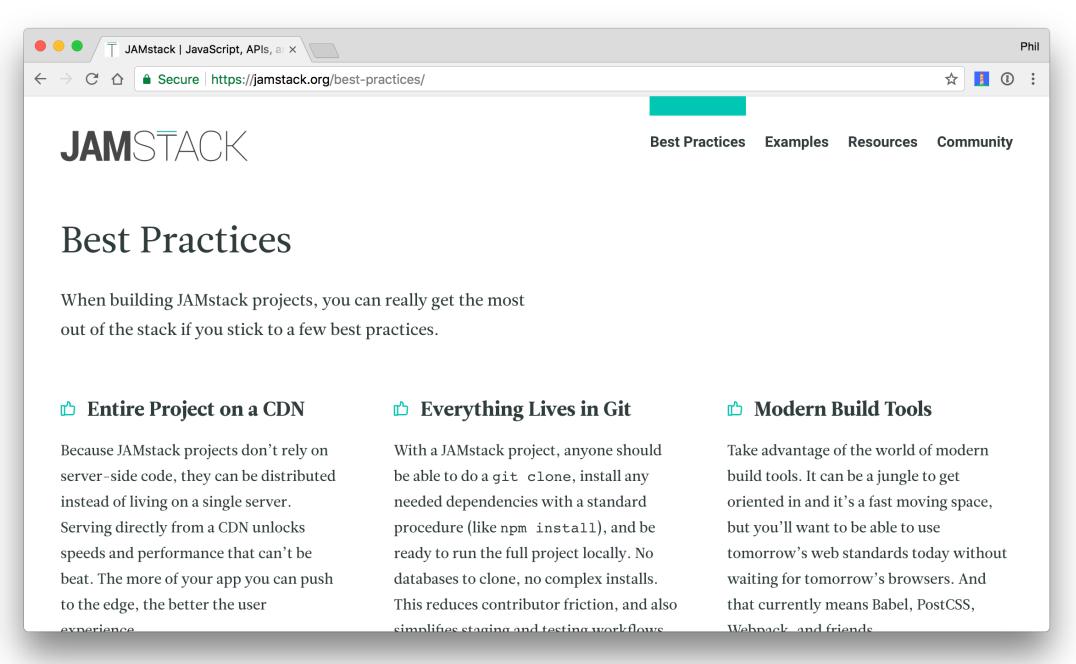


Serving for the win JS Heros, 2018 @philhawksworth

THENEWDYNAMIC.ORG



JAMSTACK.ORG



JS Heros, 2018 Serving for the win

@philhawksworth

MINDSETS

netlify





A NOTE ON DEPLOYMENT

1. MAKE IT SCRIPTED
2. MAKE IT AUTOMATED
3. MAKE IT REAL
4. MAKE IT FIRST

EXPECT TIMES OF CHAOS

DON'T LET A POOR PROCESS BE WHAT CREATES IT

A NOTE ON EXPERTISE IT'S AN AWFULLY FULL STACK

A NOTE ON EXPERTISE USE THE SKILLS OF OTHERS

HAWKSWORX.COM/TALKS/WAD

THANKSWORTH