DOWE REALY NEED THS JAMSTACK THING? AND WHAT EVEN IS IT?

PHIL HAWKSWORTH



N LAMP / MAMP / XAMP / ROR / WISA / ME WISA / MEAN / LAMP / MAMP / XAMP / ROR /









JAVASCRIPT / API / MARKUP







DEFINITION UNDERSTANDING MPACT OPPORTUNITES EXAMPLES RESULS



ISN'T THIS JUST A FANCY NEW NAME FOR STATIC SITES?









@philhawksworth

OPHL HAW (SWORTH DEVELOPER EXPERIENCE,



ISN'T THIS JUST A FANCY NEW NAME FOR STATIC SITES?









SOME DEFINITIONS















/statik/

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







ARHIELURE





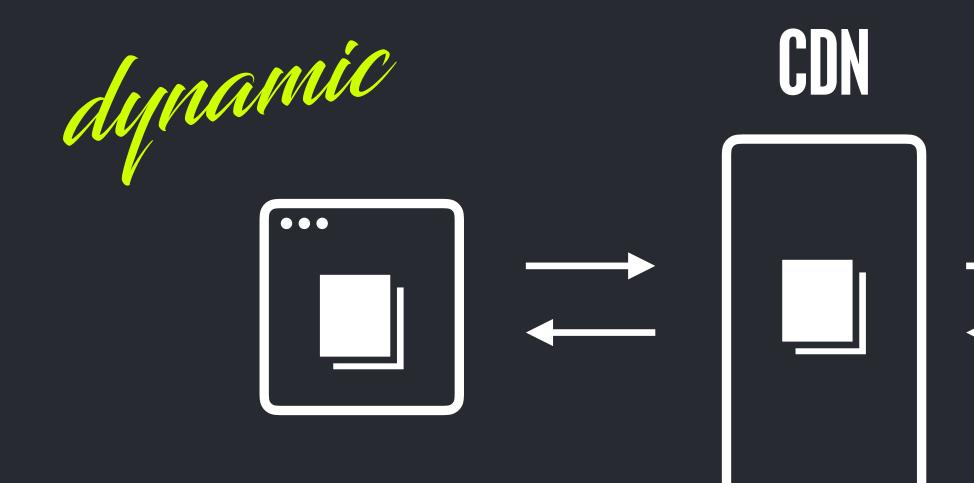




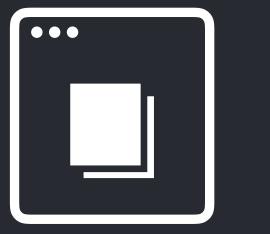


STATC 18 DYNAMC

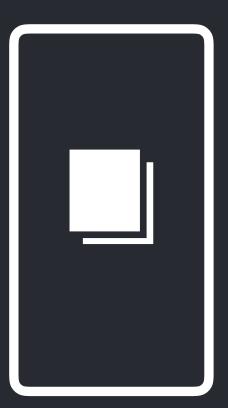


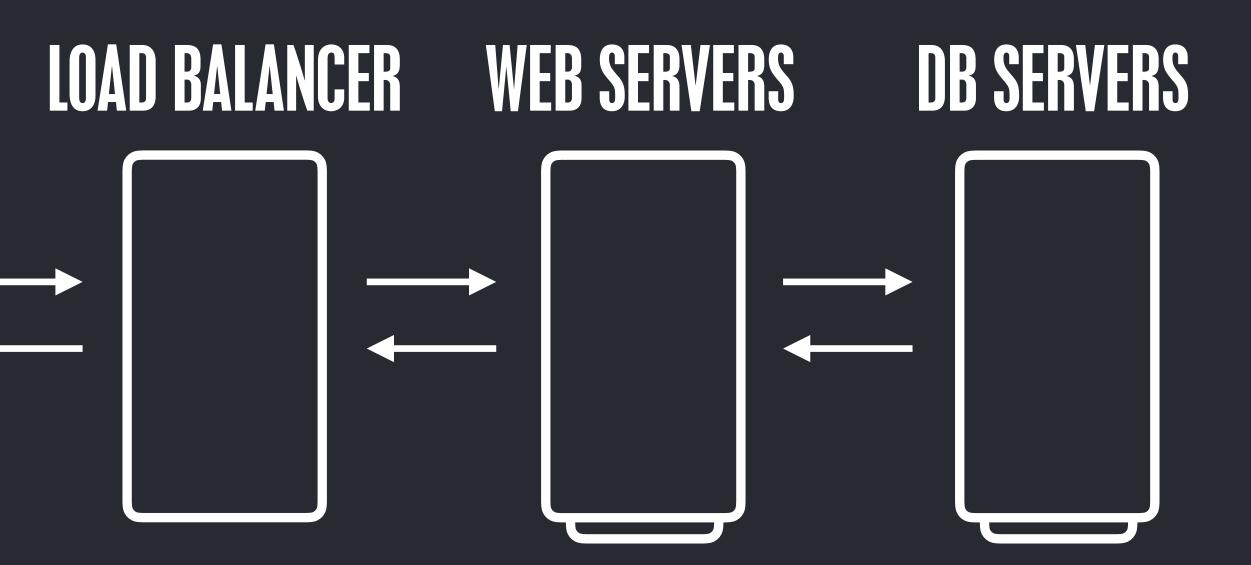


static















CAPABIE OF BEING SERVED DRECTIV FROM A CDN







REDUCE COMPLEXITY











@philhawksworth



ISN'T THIS JUST A FANCY NEW NAME FOR STATIC SITES?







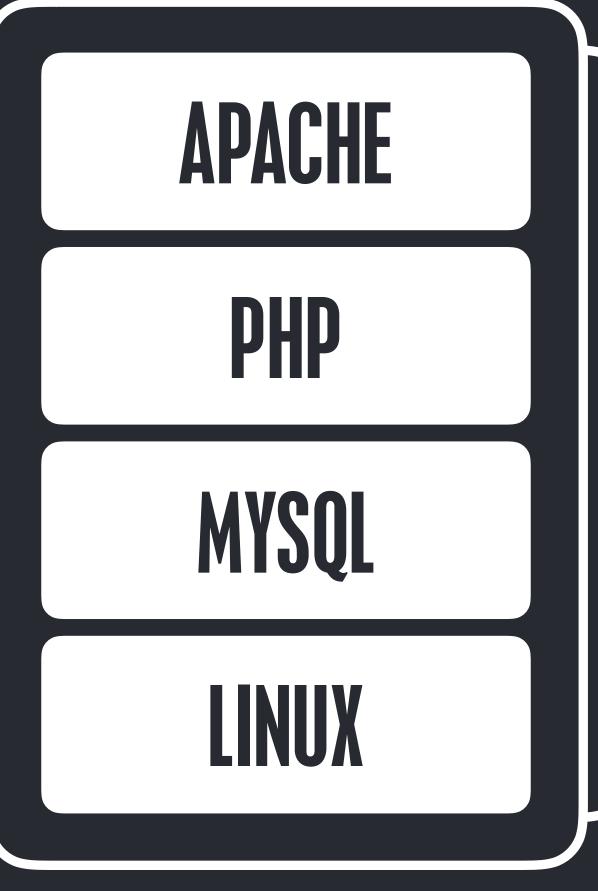
LET'S TALK STACKS





@philhawksworth







HTTP ROUTING AND SERVING PREPROCESSING

DATA ACCESS

OPERATING SYSTEM



@philhawksworth











@philhawksworth

DATA ACCESS



HTTP ROUTING AND SERVING







ENDERED D STATICALLY ESSIVELY ENHANCED







WITH JAMSTACK TO THE BROWSER



JAVASCRIPT

MARKUP

BROWSER







PROJECT COMPLEXITY

@philhawksworth



THE PROJECT TIMELINE

BRIEF START **RE-SCOPE** SCOPE



FIXES

CLIENT REVIEW

"FINAL" ЫЛЛ

LAUNCH

AWARDS









THE PROJECT TIMELINE

BRIEF START **RE-SCOPE** SCOPE



FIXES

CLIENT REVIEW

"FINAL" ЫЛИ

LAUNCH

AWARDS







THE PROJECT TIMELINE

BRIEF START RE-SCOPE SCOPE

FIXES

CLIENT REVIEW

"FINAL" SIGN OFF

LAUNCH

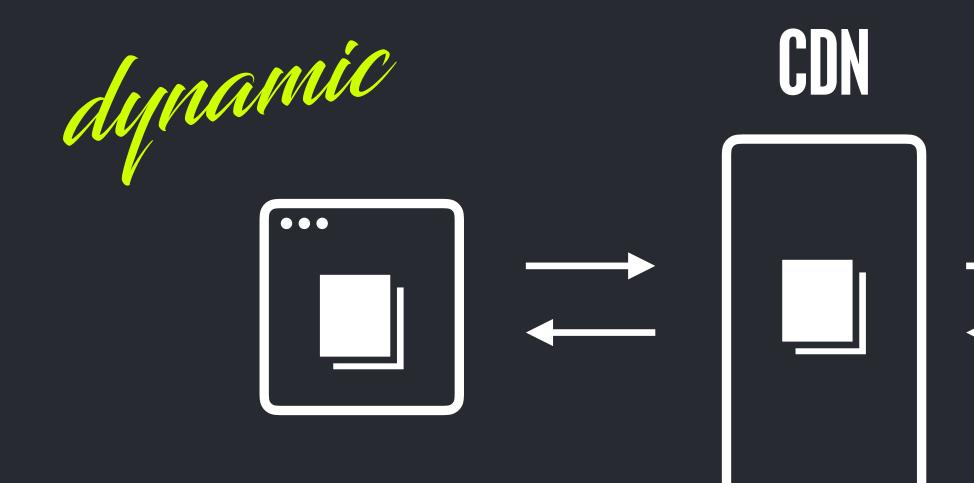
AWARDS



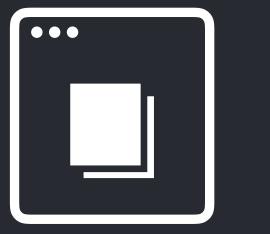
crewmarket



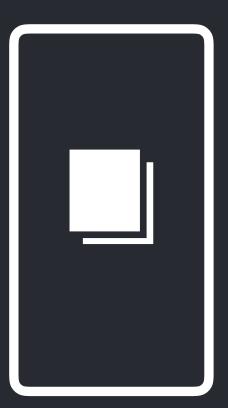


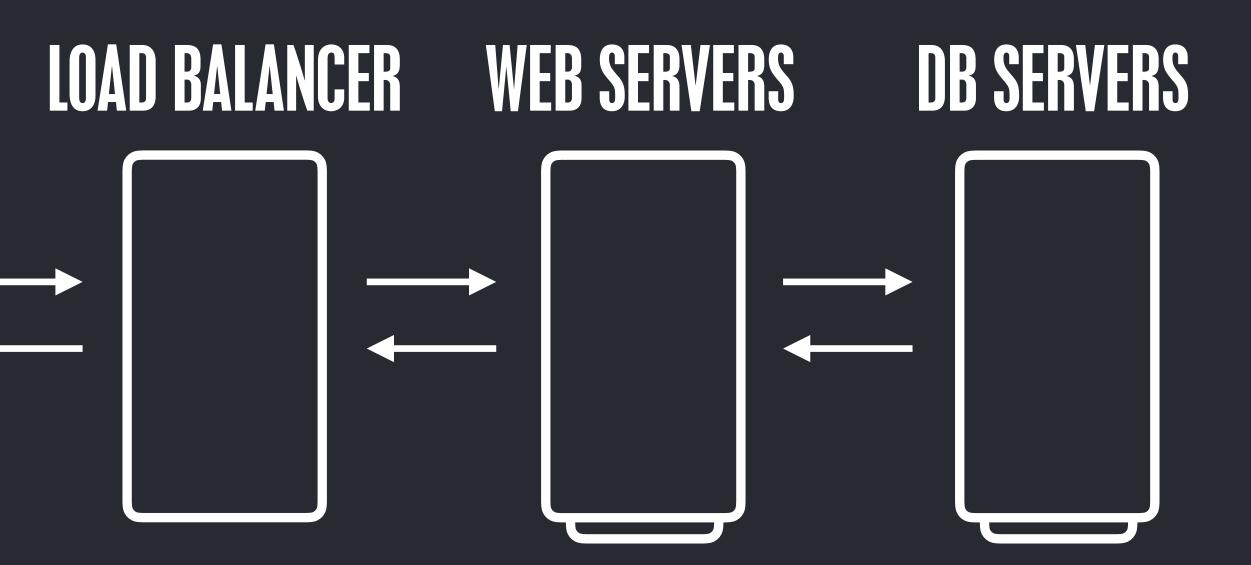


static

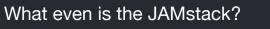








GE THE CHOPPER GDN





WELL ACTUALLY. THIS JAMSTACK STUFF IS NOTHING NEW



netlify

ondon, 2019

BAKE, DON'T FRY - Aaron Swartz

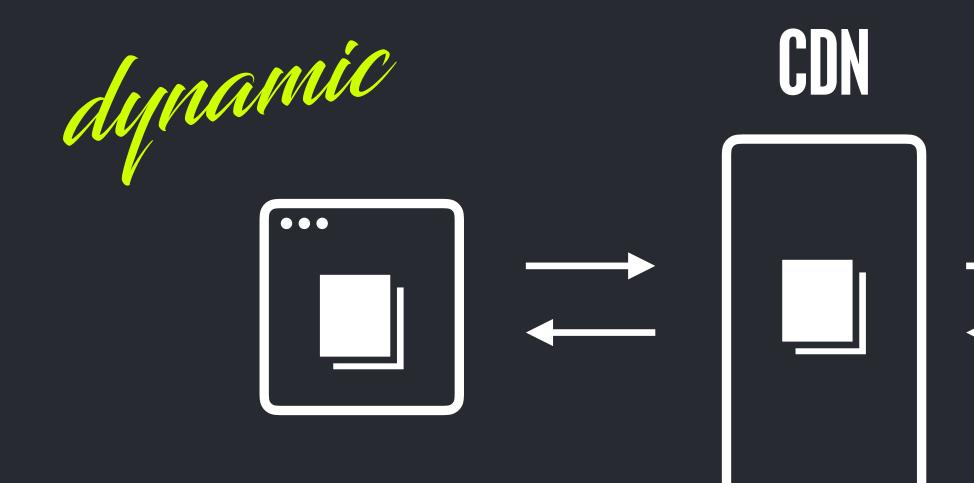




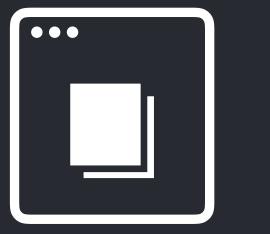
I CARE ABOUT NOT HAVING TO MAINTAIN CRANKY AOLSERVER, POSTGRES AND ORACLE INSTALLS

AARON SWATTZ

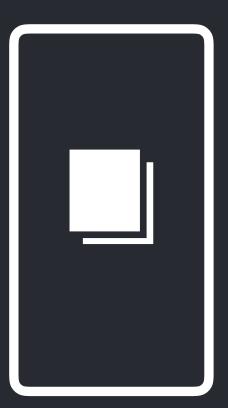


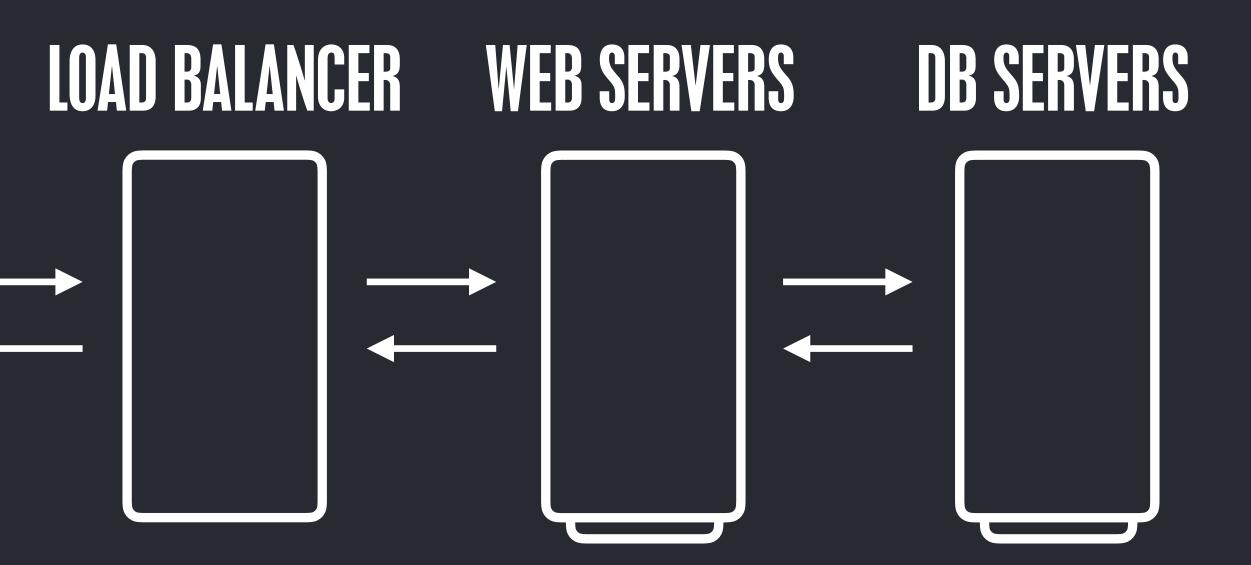


static

















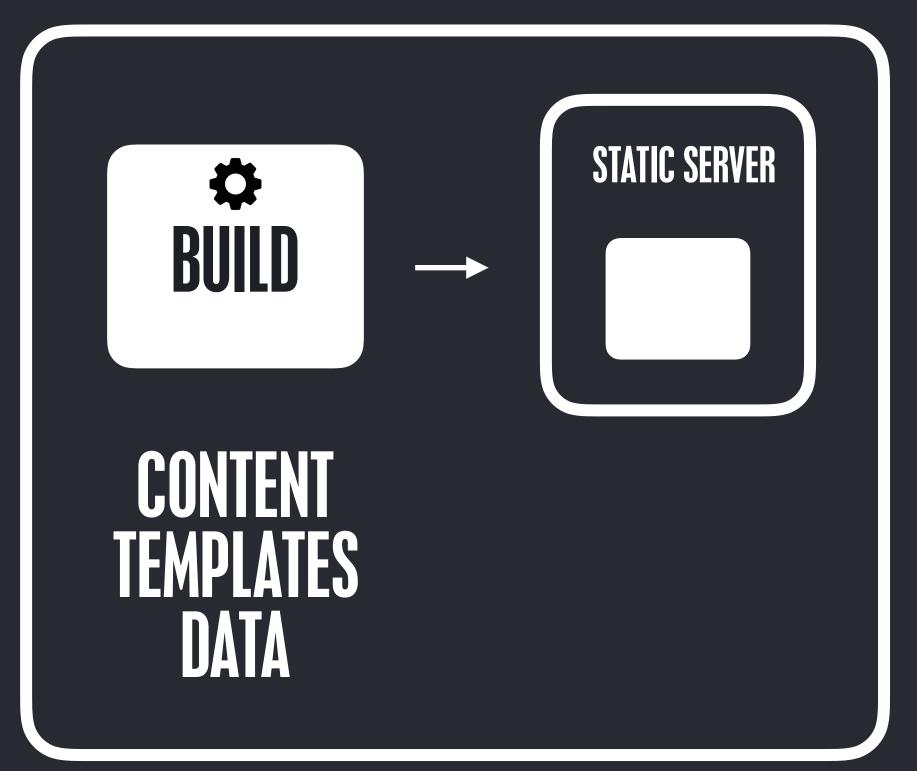




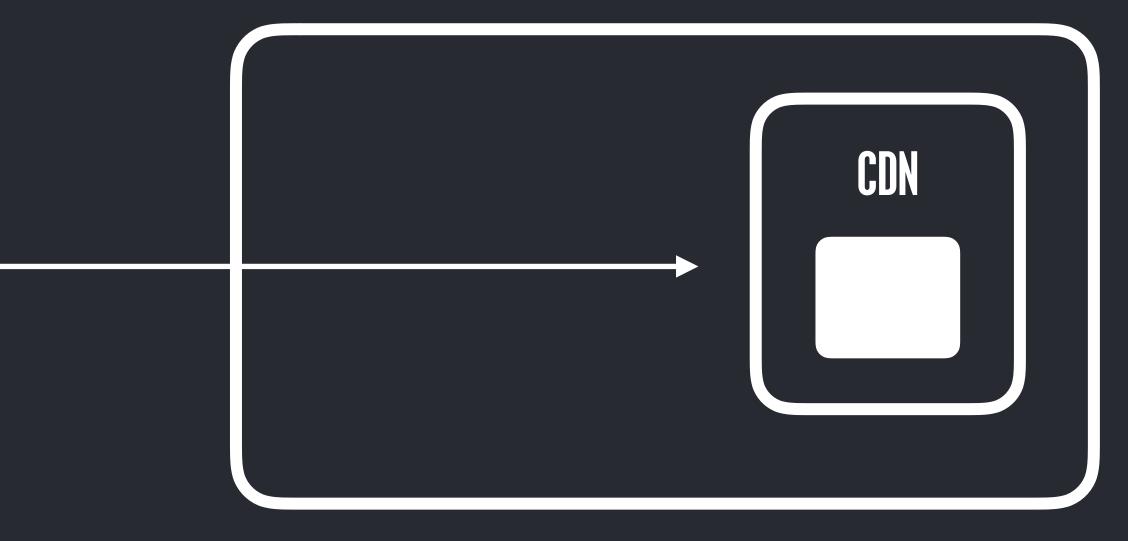




LOCAL



HOSTING





IMPACTS AND **Opportunities**









A GREATLY REDUCED SURFACE AREA



MOWING PARTS

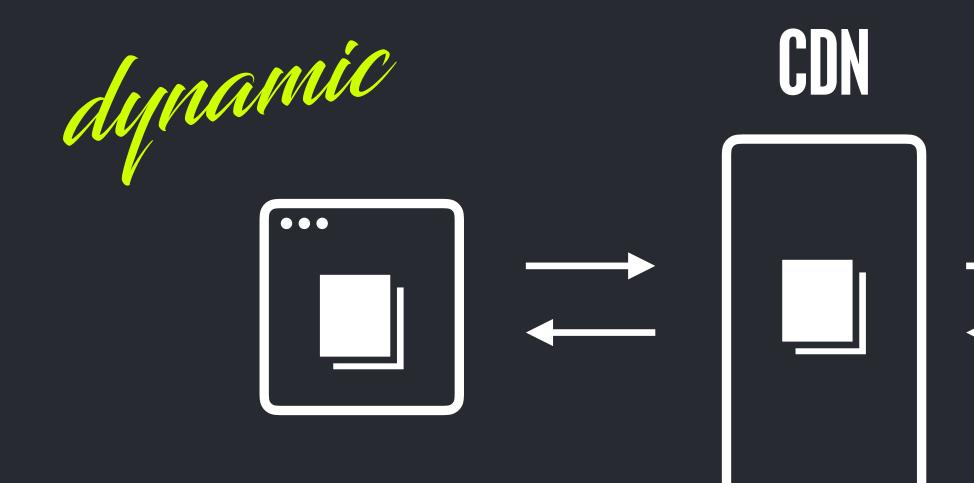


YOUR-DOMAIN.COM/WP-ADMIN

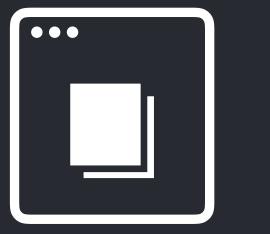


PERFORMANCE & SCALE

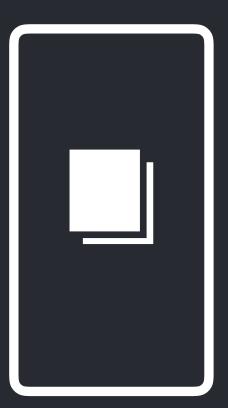


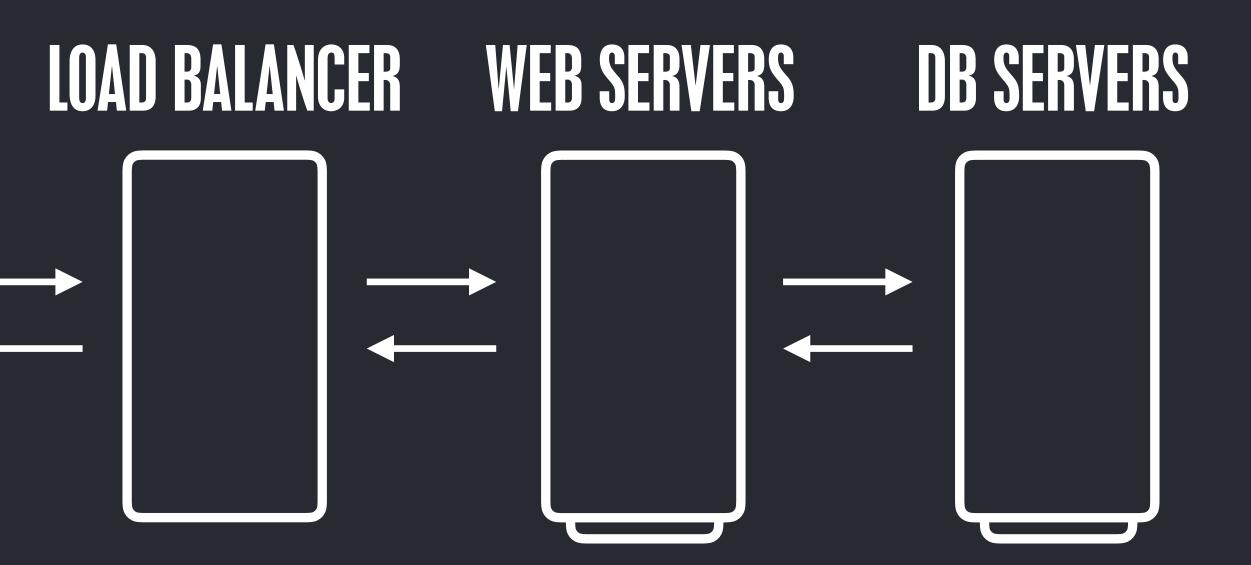


static











DEVELOPER EXPERIENCE

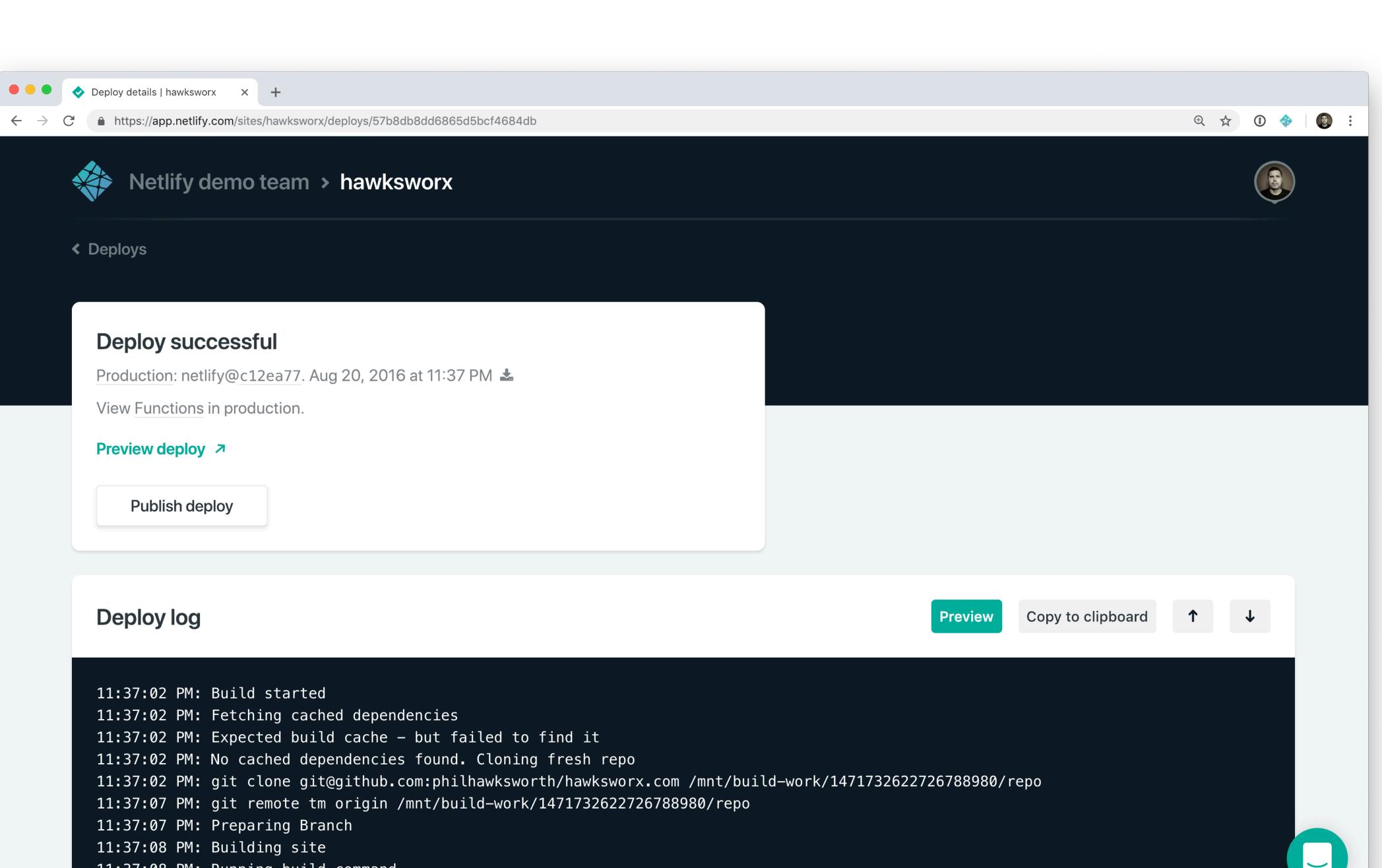


DEPLOYMENT CONFIDENCE



A MASTACK SITE CAN MORE EASILY HAVE INNUTABLE, ATOME DEPLOYS





		3 3 3 3 3 3 3 3 3 3
11:37:02	PM:	Expected build cache – but failed to find it
11:37:02	PM:	No cached dependencies found. Cloning fresh repo
11:37:02	PM:	git clone git@github.com:philhawksworth/hawksworx
11:37:07	PM:	git remote tm origin /mnt/build-work/147173262272
11:37:07	PM:	Preparing Branch
11:37:08	PM:	Building site
11:37:08	PM:	Running build command
11:37:08	PM:	Running Build



BEVOND STATIC



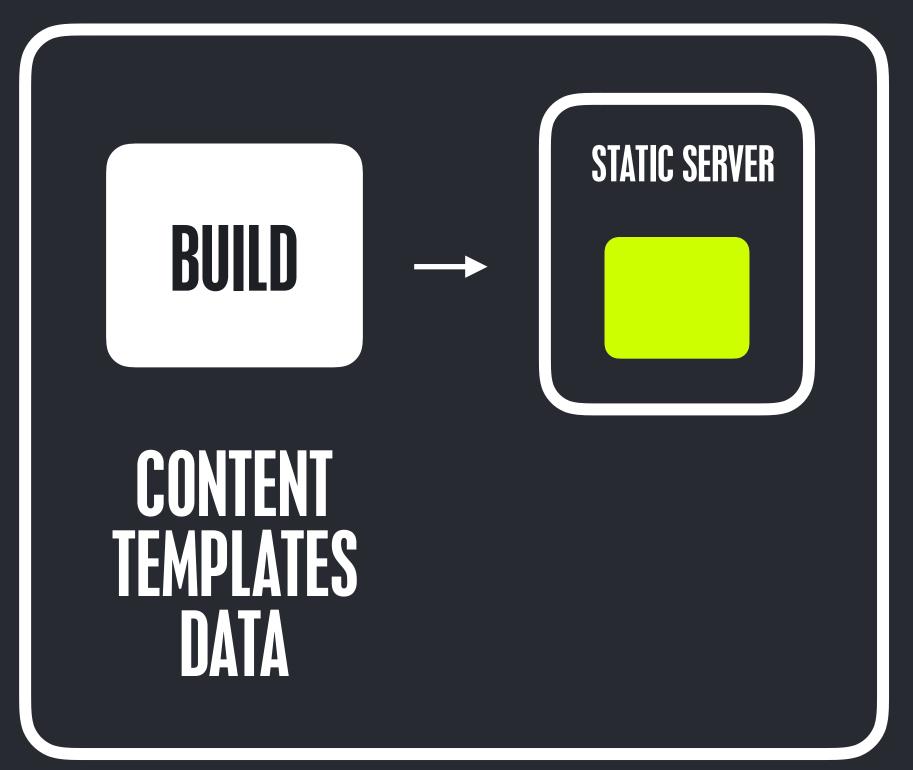
AUTOMATION REPEATABILITY / PREDICTABILITY / ACCOUNTABILITY / AGILITY



REPEATABILITY / PREDICTABILITY / CONFIDENCE / VERSION CONTROL



LOCAL



HOSTING

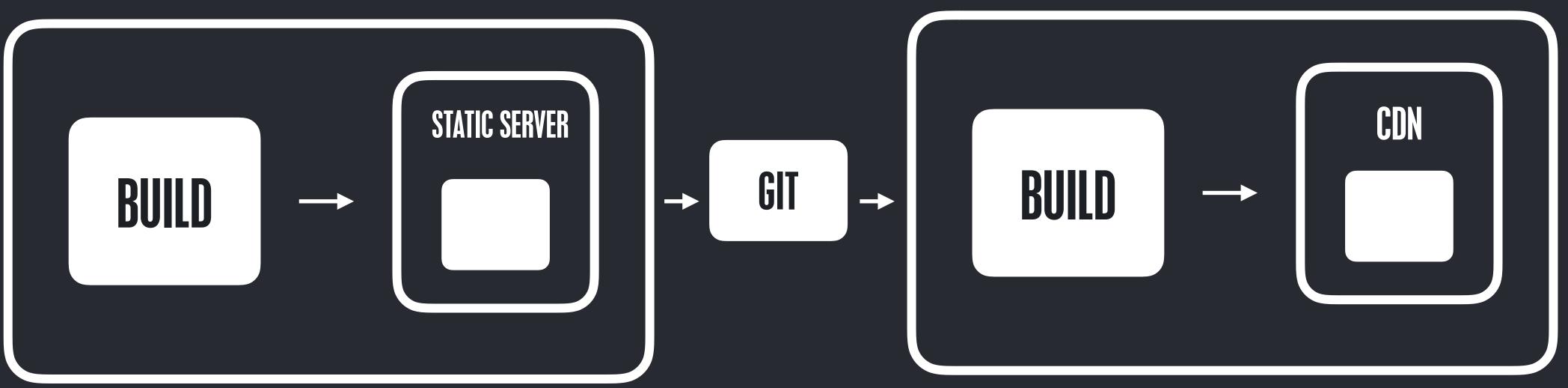




GIT-BASED DEPLOYMENTS



LOCAL

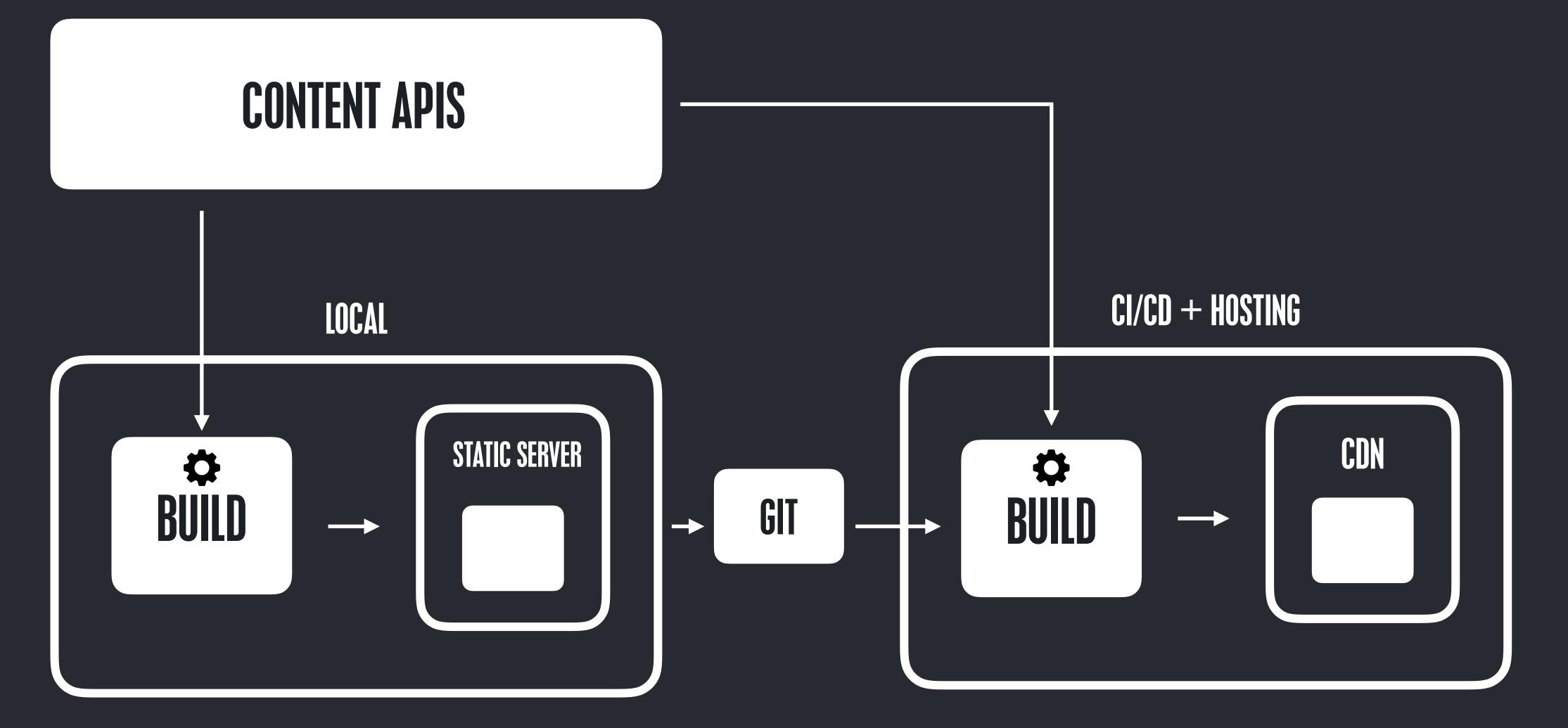


CI/CD + HOSTING



DATA SOURCES







nogults in HGH CONFIDENCE





A RD CULOUS

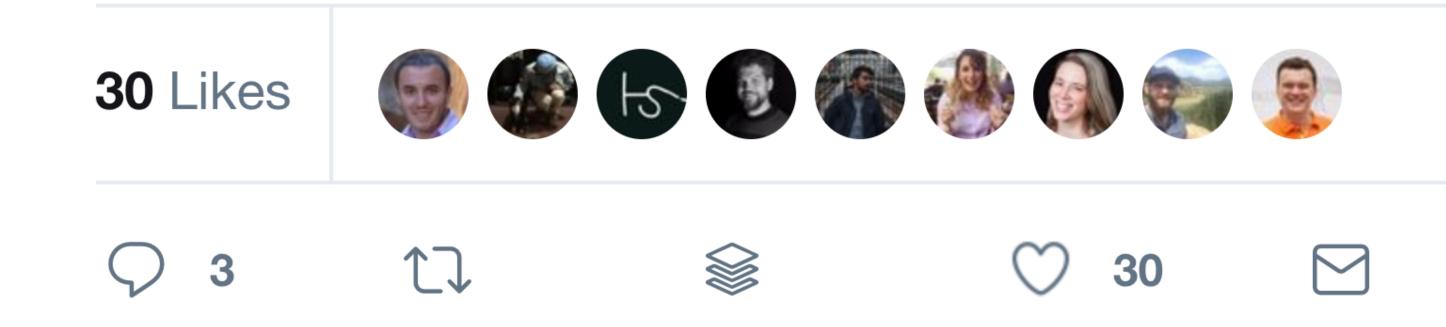




Zach Leatherman @zachleat

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





 \checkmark





Chris Coyier 🤣 @chriscoyier

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



 \checkmark



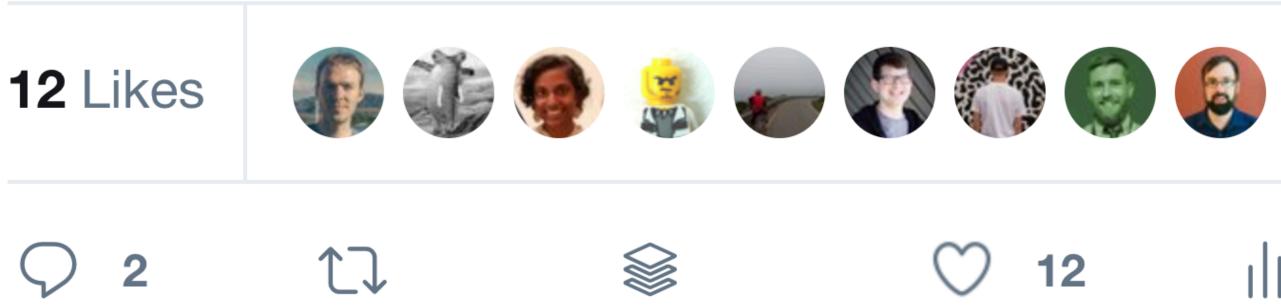


Phil Hawksworth @philhawksworth

Replying to @zachleat @chriscoyier and 2 others

Hold my beer.

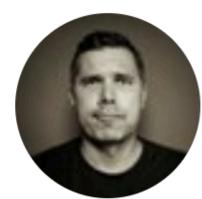
10:25 PM - 19 Jul 2018



@philhawksworth

 \checkmark





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

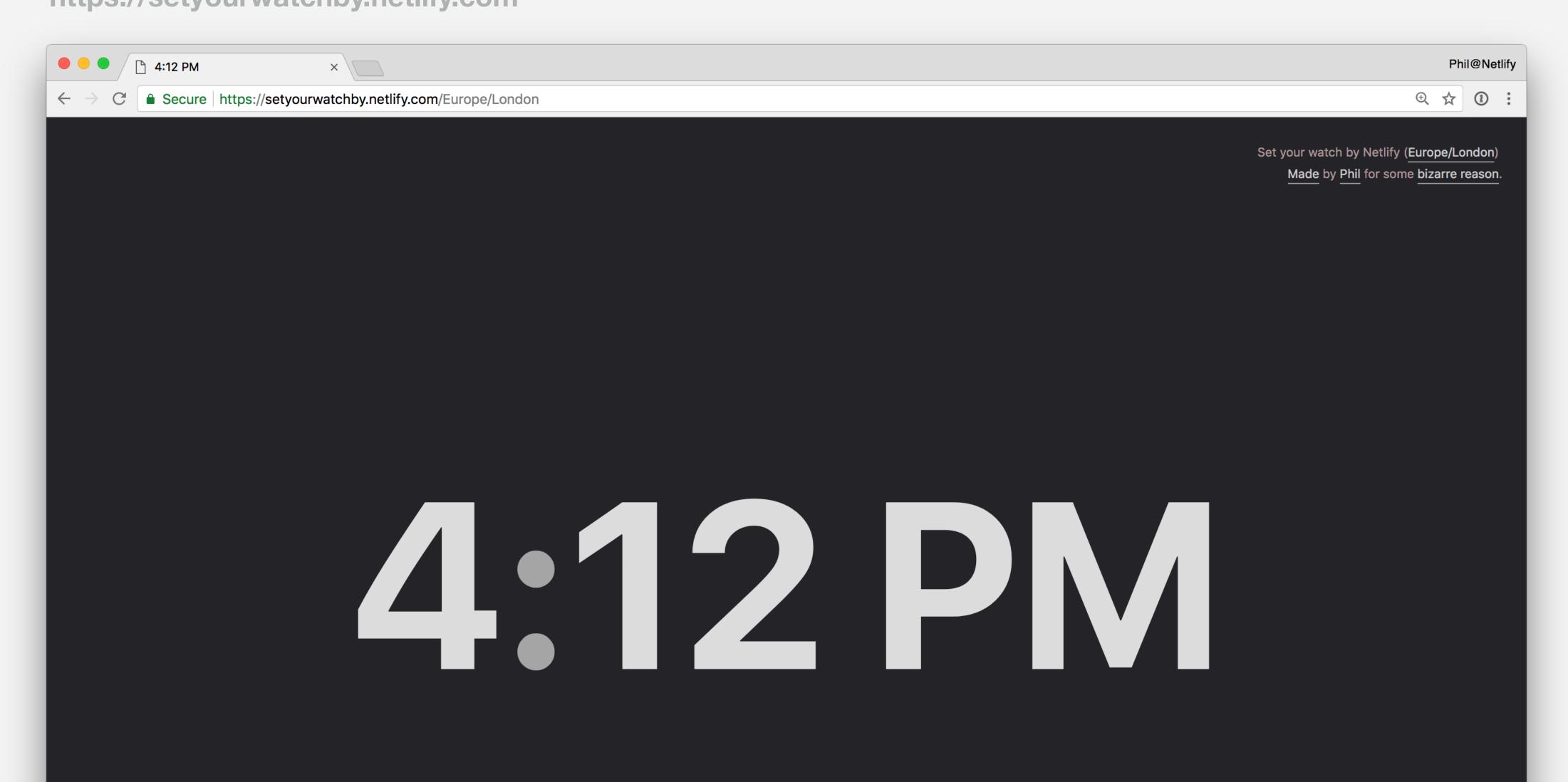
12 Retweets **41** Likes



@philhawksworth

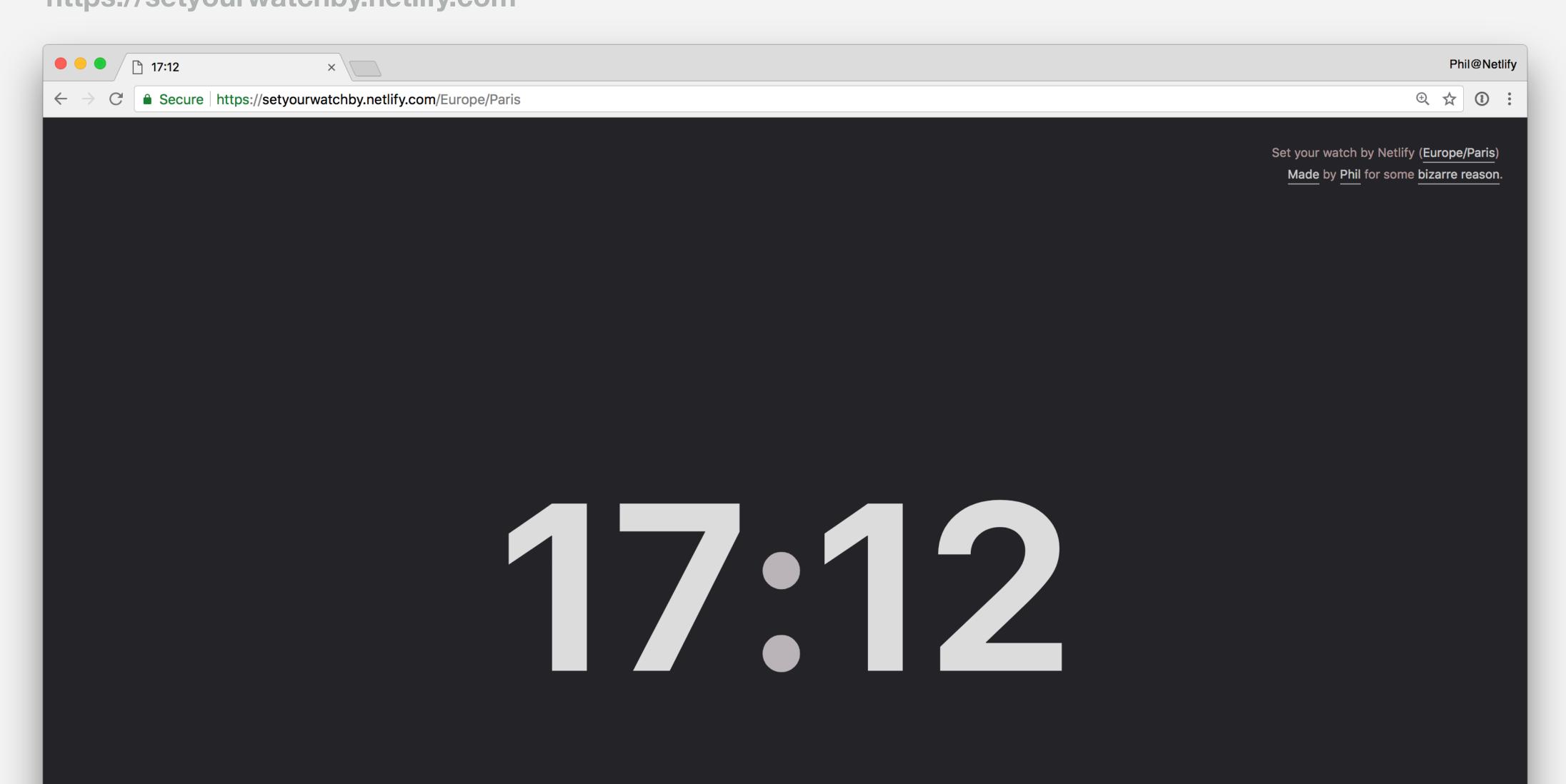
 \sim

FINDTHATAT/TIME https://setyourwatchby.netlify.com



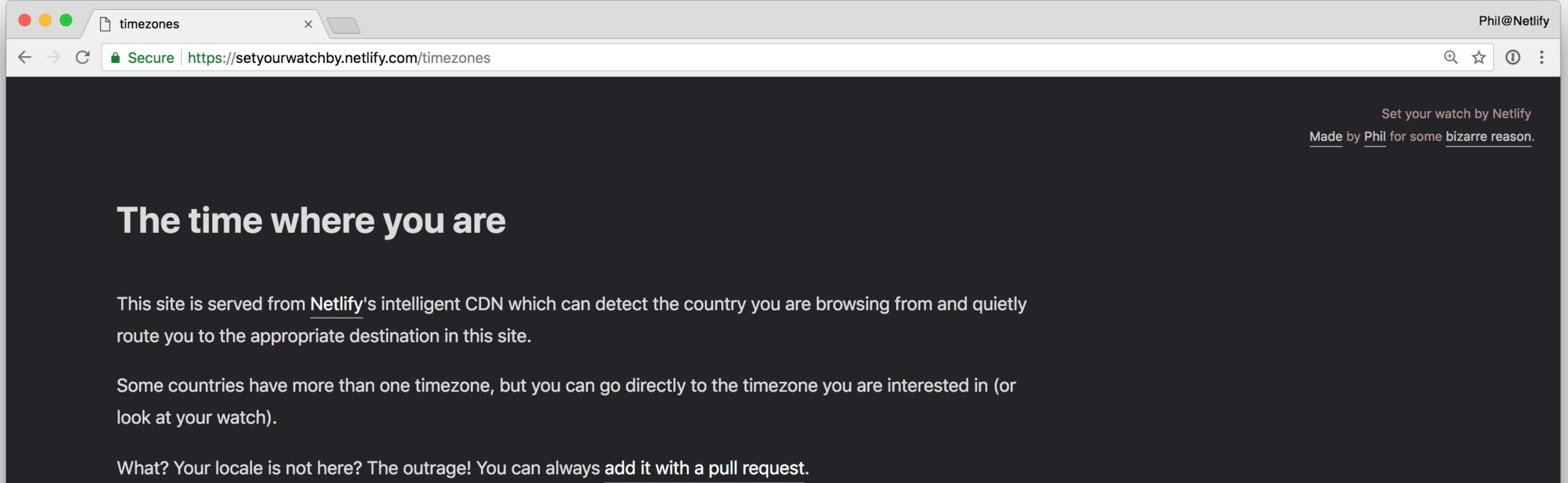


FINDTHATAT/TIME https://setyourwatchby.netlify.com





FINDTHAT.AT/TIME https://setyourwatchby.netlify.com

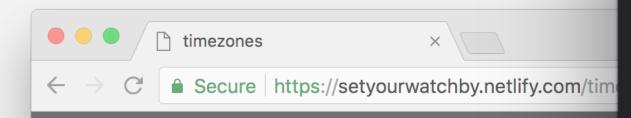


Pacific/Auckland Australia/Sydney Australia/Perth Asia/Hong_Kong Europe/Bucharest Europe/Moscow Europe/Istanbul Europe/Amsterdam



What even is the JAMstack?

FINDTHAT.AT/TIM https://setyourwatchby.netlify.c



The time where you

This site is served from <u>Netlify</u>'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

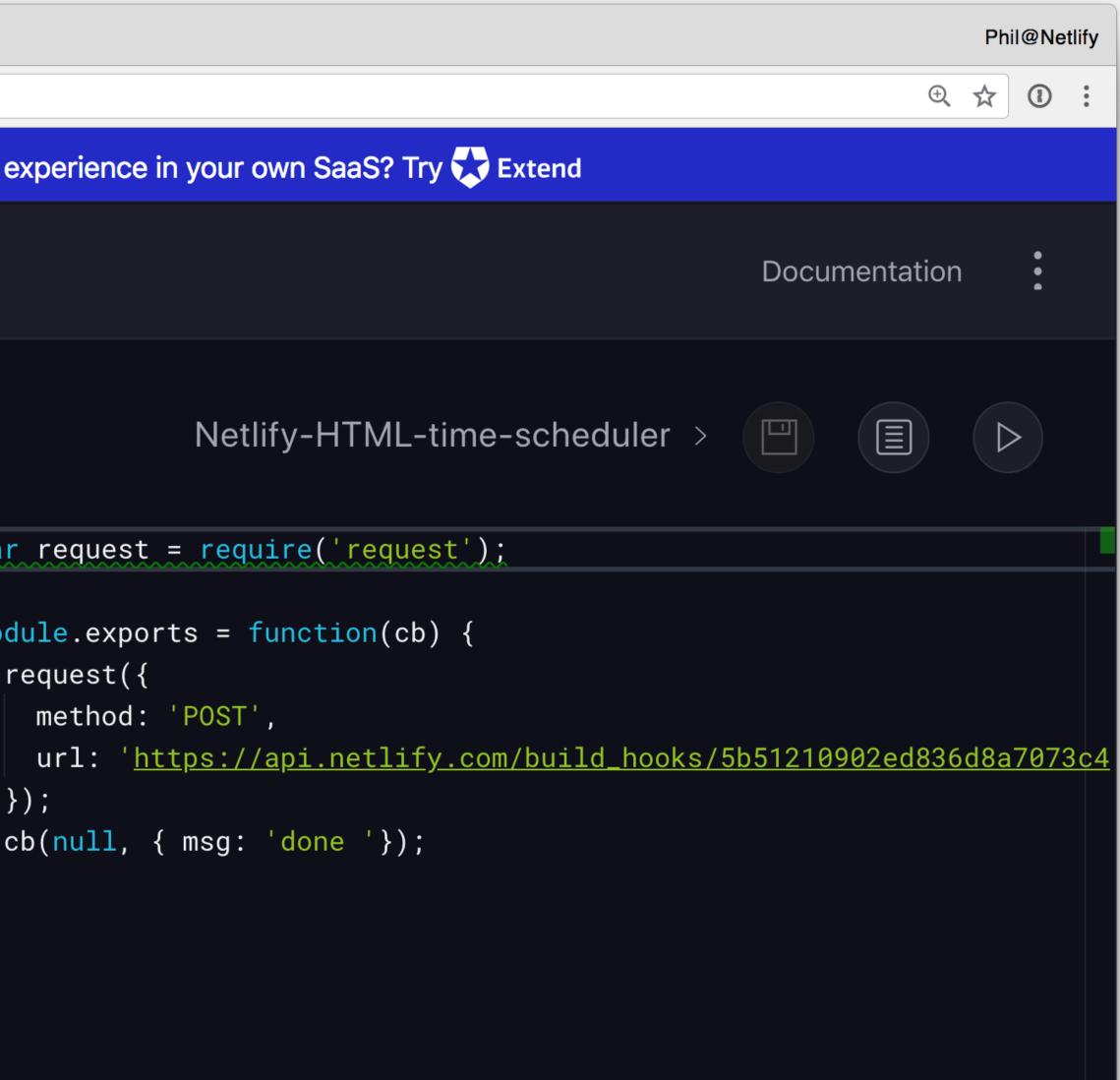
Pacific/Auckland Australia/Sydney Australia/Perth Asia/Hong_Kong Europe/Bucharest Europe/Moscow Europe/Istanbul Europe/Amsterdam

- 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.IO

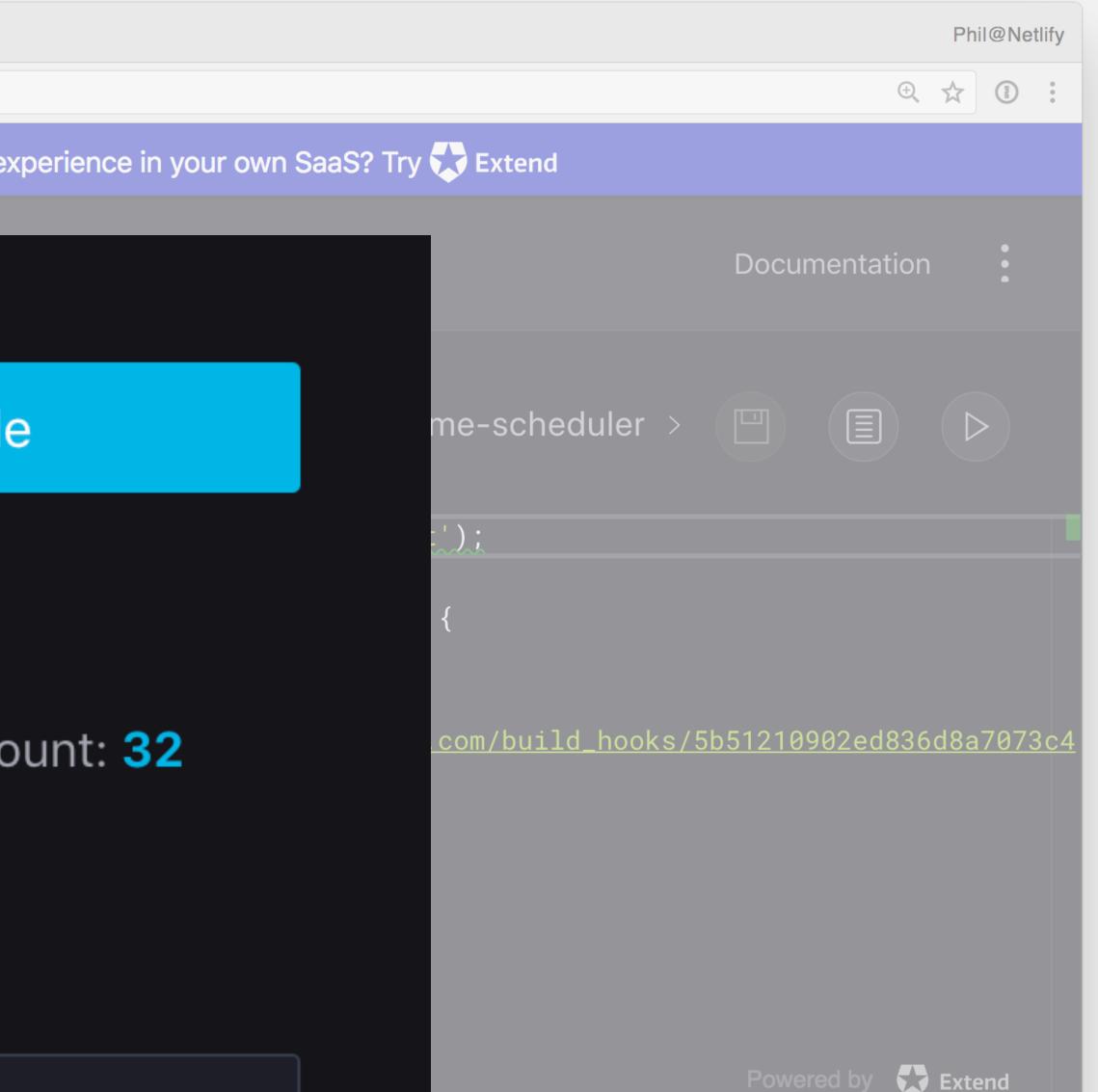
$\begin{array}{c}\bullet\bullet\bullet\\\leftarrow\rightarrow\end{array}$	 Webtask Editor × C Secure https://webtask.io/make 					
Would you like the webtask.io ex						
webtask						
Q	\times					
	Scheduler	<i>275</i>				
+	Refresh Remove schedule					
		+ 1 var				
Ē	Write an advanced schedule	2				
		3 modu 4 re				
	*/1 * * * *	5				
	Minute Hour Day Month Weekday	6				
		7 })				
		8 ct				
	Update schedule	9 }; 10				
	Stats	10				
	Run count: 57540 Error count: 10					





WEBSTASK.IO

	Webtask Editor ×
$\leftarrow \rightarrow c$	Secure https://webtask.io/make
	Would you like the webtask.io ex
we	
Q	
	Update schedule
	Stats
	Run count: 341661 Error co
	Completed seconds ago





@philhawksworth

DONT DO THS





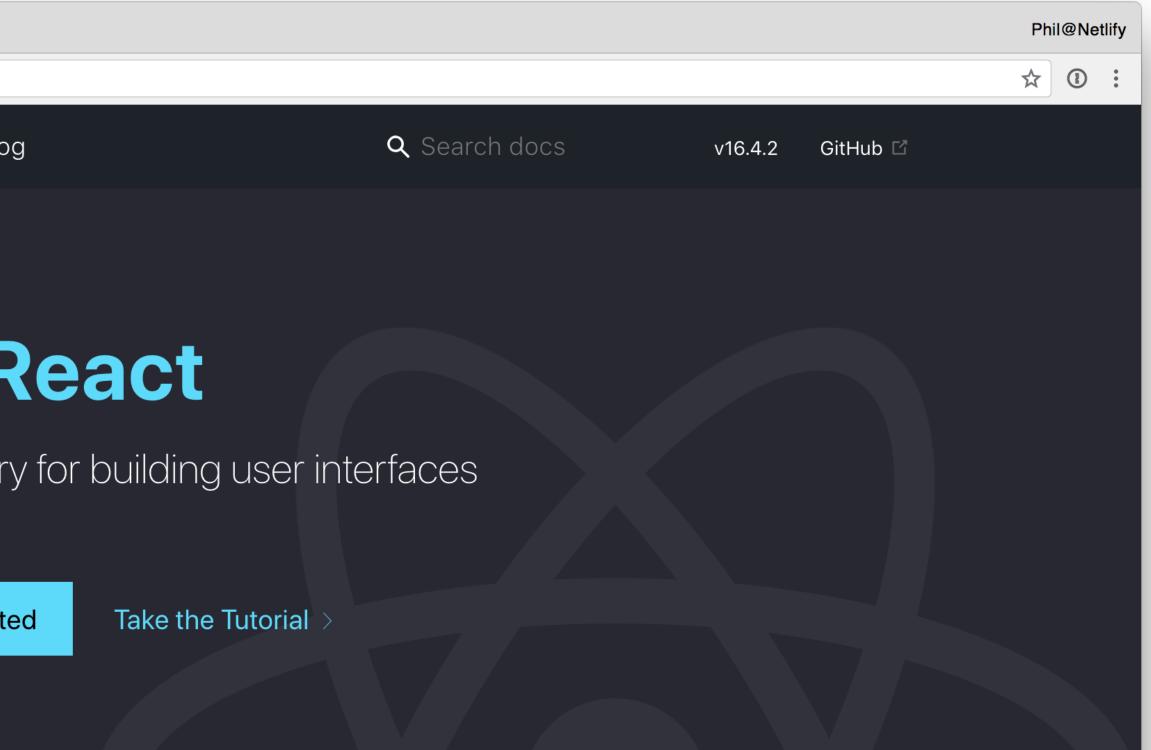
EXAMPLES AND **RESULTS**

REACTJS.ORG

React – A JavaScript library for ×								
\leftarrow \rightarrow C \blacksquare Secure	https://reactjs.org							
÷	React	Docs	Tutorial	Community	Blog			
					R			
			A Ja	vaScript I	ibrary			
				Ge	t Starteo			
De	eclarative			Compor	nent-Ba			
Rea	act makes it painless to	create inte	eractive Uls.	Build enca	apsulated			

Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes. Build encapsulated components that manage their own state, then compose them to make complex UIs.

Since component logic is written in JavaScript



Based

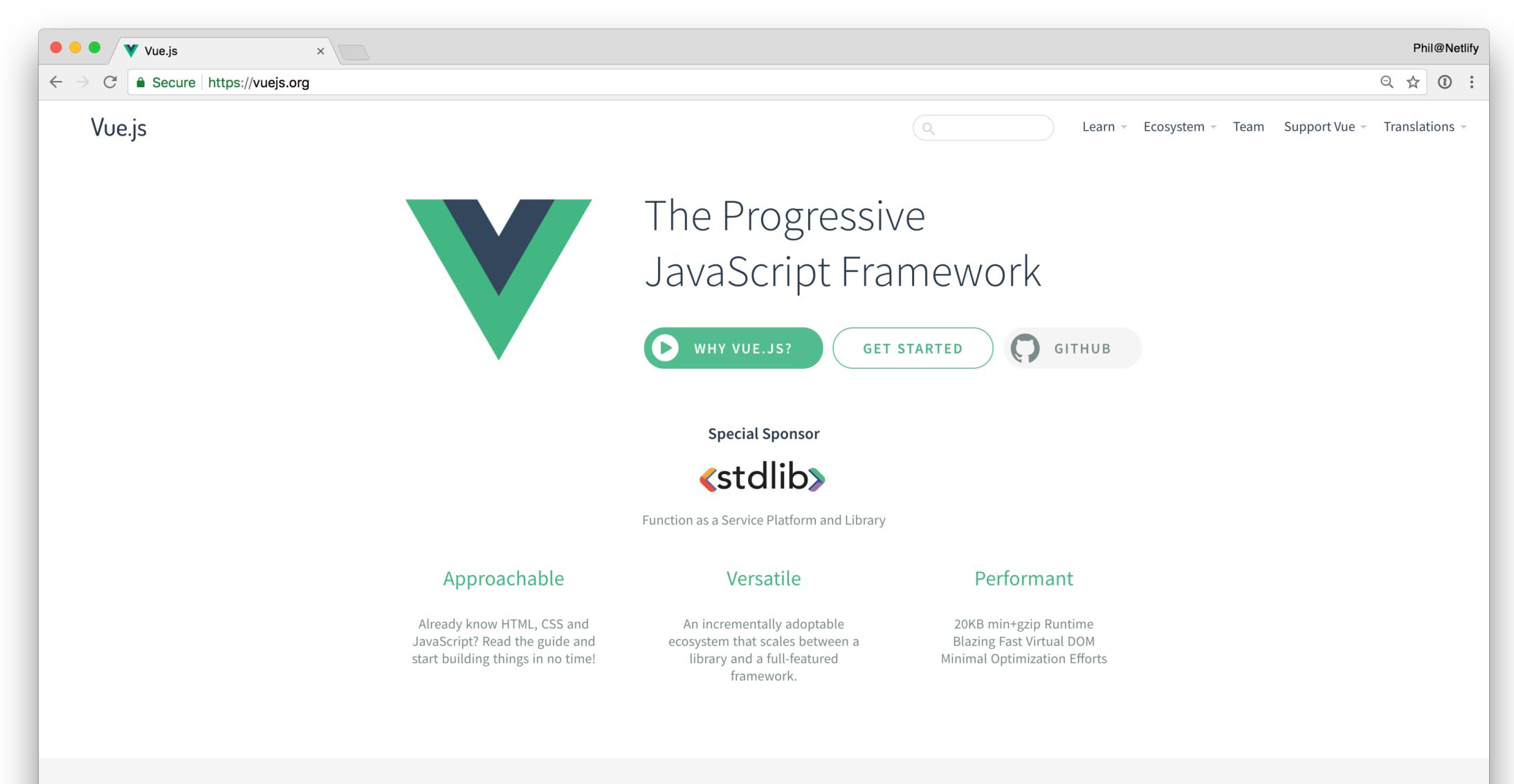
Learn Once, Write Anywhere

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

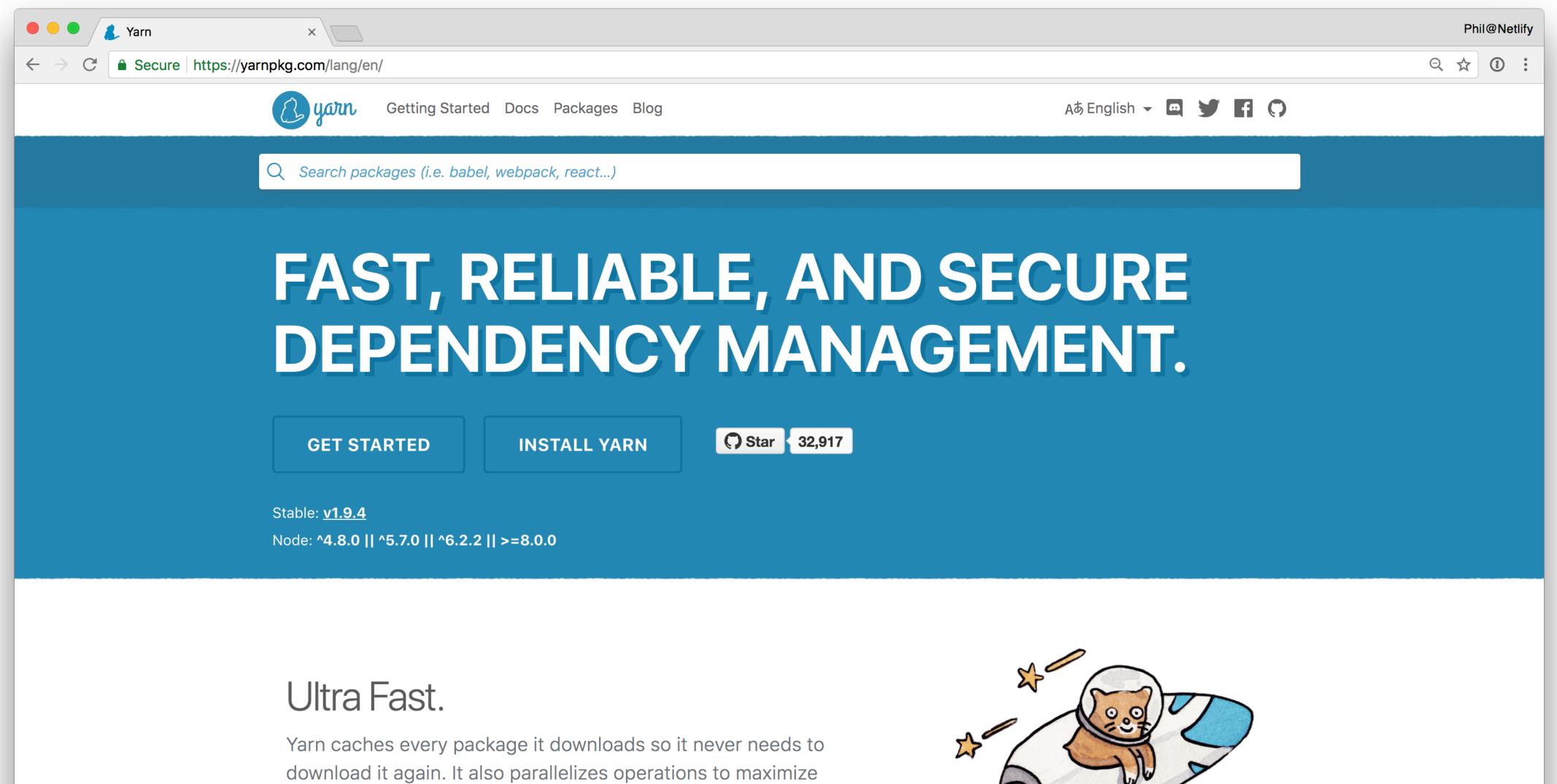
React can also render on the server using Node



VUEJS.ORG



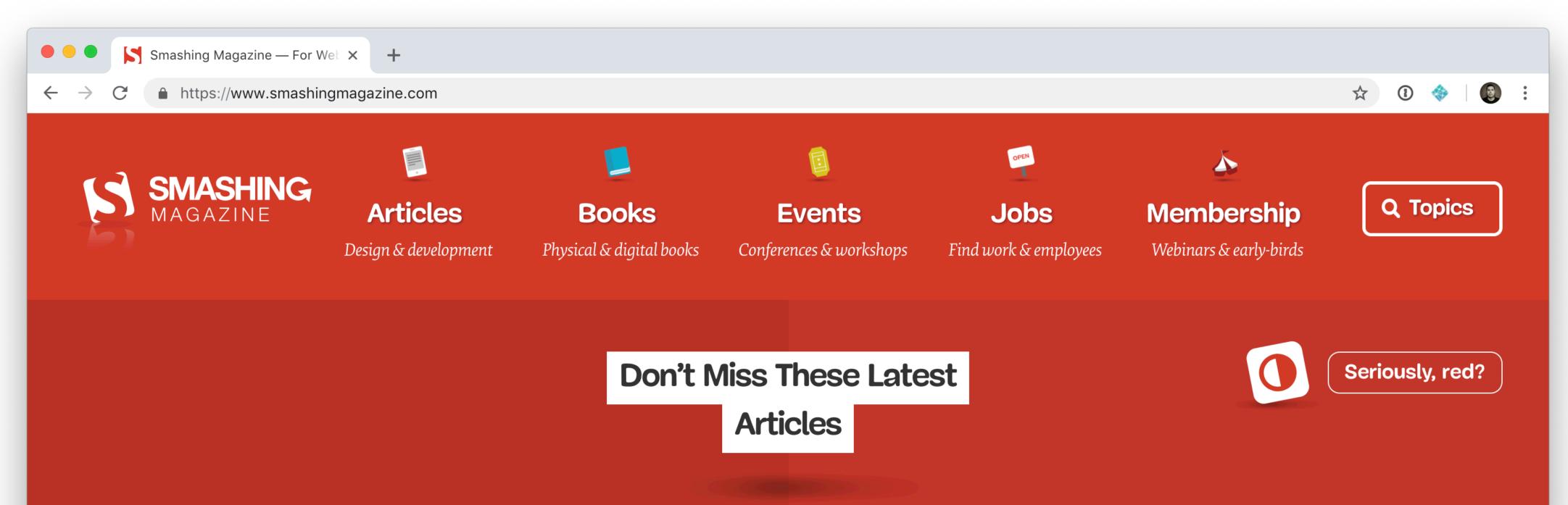
YARNPKG.COM



resource utilization so install times are faster than ever.



SMASHINGMAGAZINE.COM





Leonardo Losoviz wrote

Caching Smartly In The Age Of Gutenberg Leave a comment

WordPress ¹⁹³ # HTML ⁶²

Plugins 53



Rachel Andrew wrote

Web Design And Development Advent Roundup For 2018 I comment



WE HAD SOME CACHING ISSUES... WITH PROBABLY EVERY SINGLE WORDPRESS CACHING PLUGIN OUT THERE







PLATEORNS





https://www.netlify.com/case-studies/smashing/





SMASHINGMAGAZINE COM TIME TO FIRST LOAD

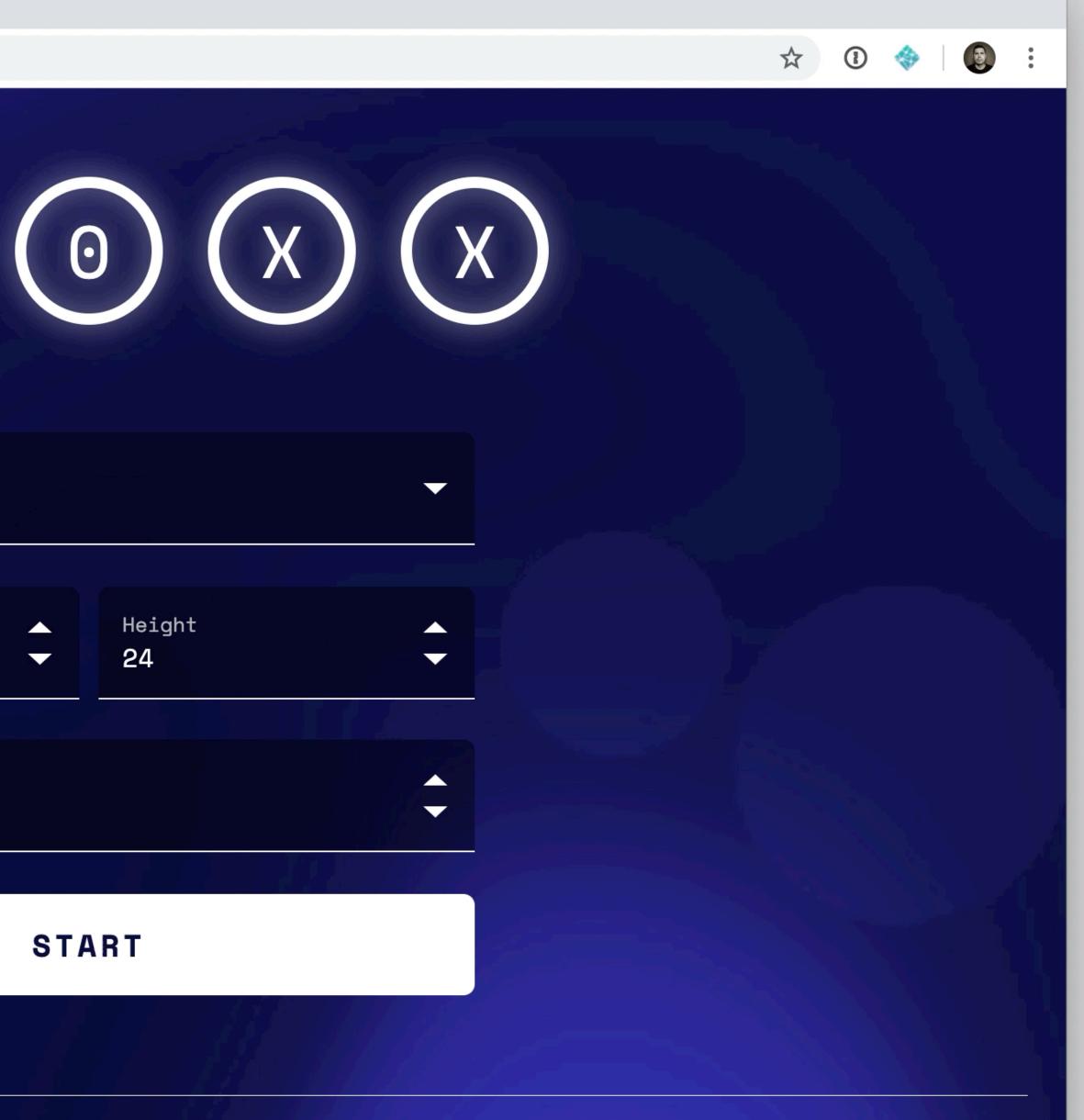
pom



https://www.netlify.com/case-studies/smashing/



🗧 🗧 💿 PROXX — a game	× +
← → C	
	P R
	Difficulty Hard
	Width 24
	Black holes 99
(j)	



¢



PROX APP PAYLOAD TO INTERACTIVE



https://web.dev/proxx-announce/





PROX APP TME TO INTERACTIVE





https://web.dev/proxx-announce/









JAMSTACK SITES DON'T HAVE TO DEPEND ON **LAVASCRIPT**





<body id="app"></body>



SHIP LESS JAVASCRIPT





SOMETHING, SOMETHING POWER, Something, Something Responsibility

VARIOUS MARVEL CHARACTERS



PRERENDING

PROGRESSIVE ENHANCEMENT

TO REMOVE THE NEED FOR AN ORIGIN SERVER

TO ENRICH THE EXPERIENCE WITH JAVASCRIPT AND SERVICES VIA APIS







I ABSOLUTELY POSITIVELY NEED A LITTLE LOGIC ON A SERVER

MANY OF US, SOMETIMES



SERVERIESS TO THE RESCUE





FUNCTIONS AS A SERVICE



FUNCTIONS AS A SERVICE ENABLE A MICROSERVICES ARCHITECTURE



LOWERING THE OVERHEAD OF DEPLOYING / MAINTAINING / Managing / Securing Our Code

exports.handler = (event, context, callback) \Rightarrow {

callback(null, {
 statusCode: 200,
 body: 'Hello UpFront!'
})







SOFTWARE AND PATCHES **OPERATING SYSTEM** NETWORK PHYSICAL / VIRTUAL SCALING

SHETHE BURDEN















BY BREAKING THE MONOLITH APART, WE CAN ENJOY BOUGHT OR BUILT **SPECIALIST SERVICES**





@philhawksworth

ONE JOB



YOU HAD ONE JOB





EVENTS, WEBHOOKS, MICROSERVICES, AND APIS PROVIDE GLUE







BOUGHT SERVICES

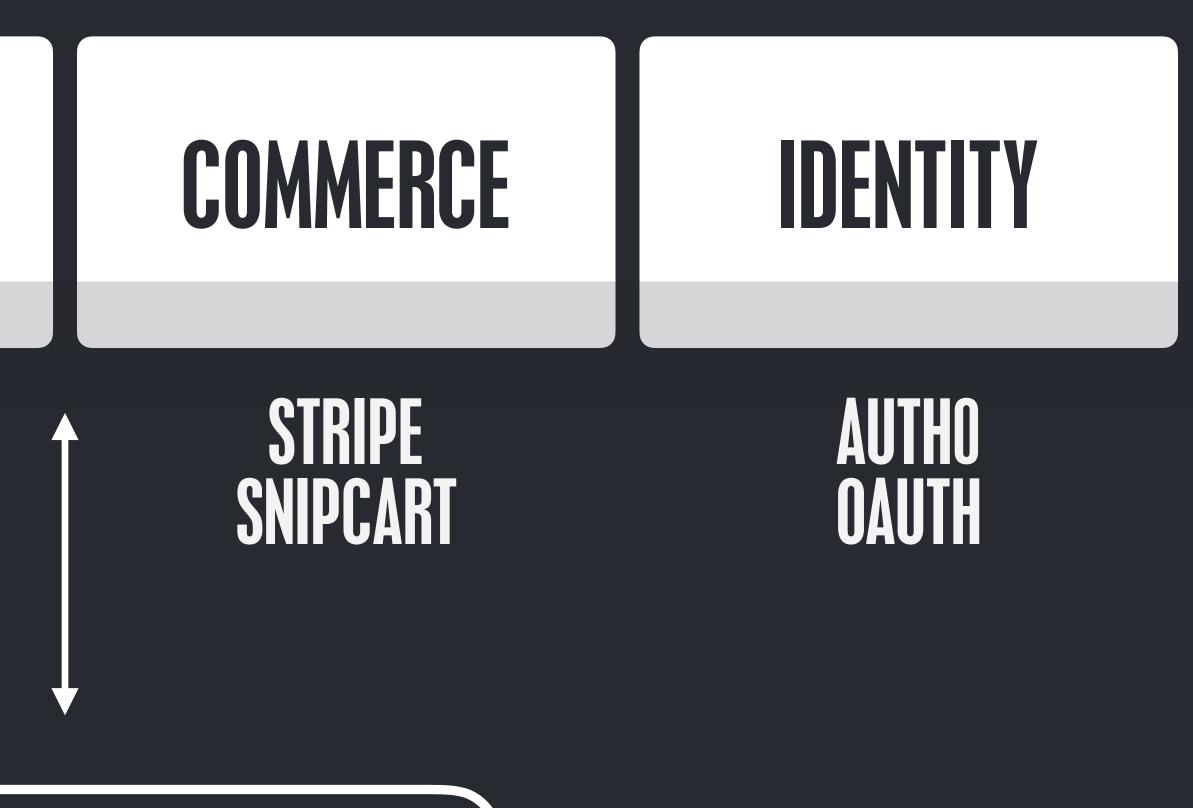




ASSETS

CLOUDINARY

CONTENTFUL SANITY GRAPHCMS





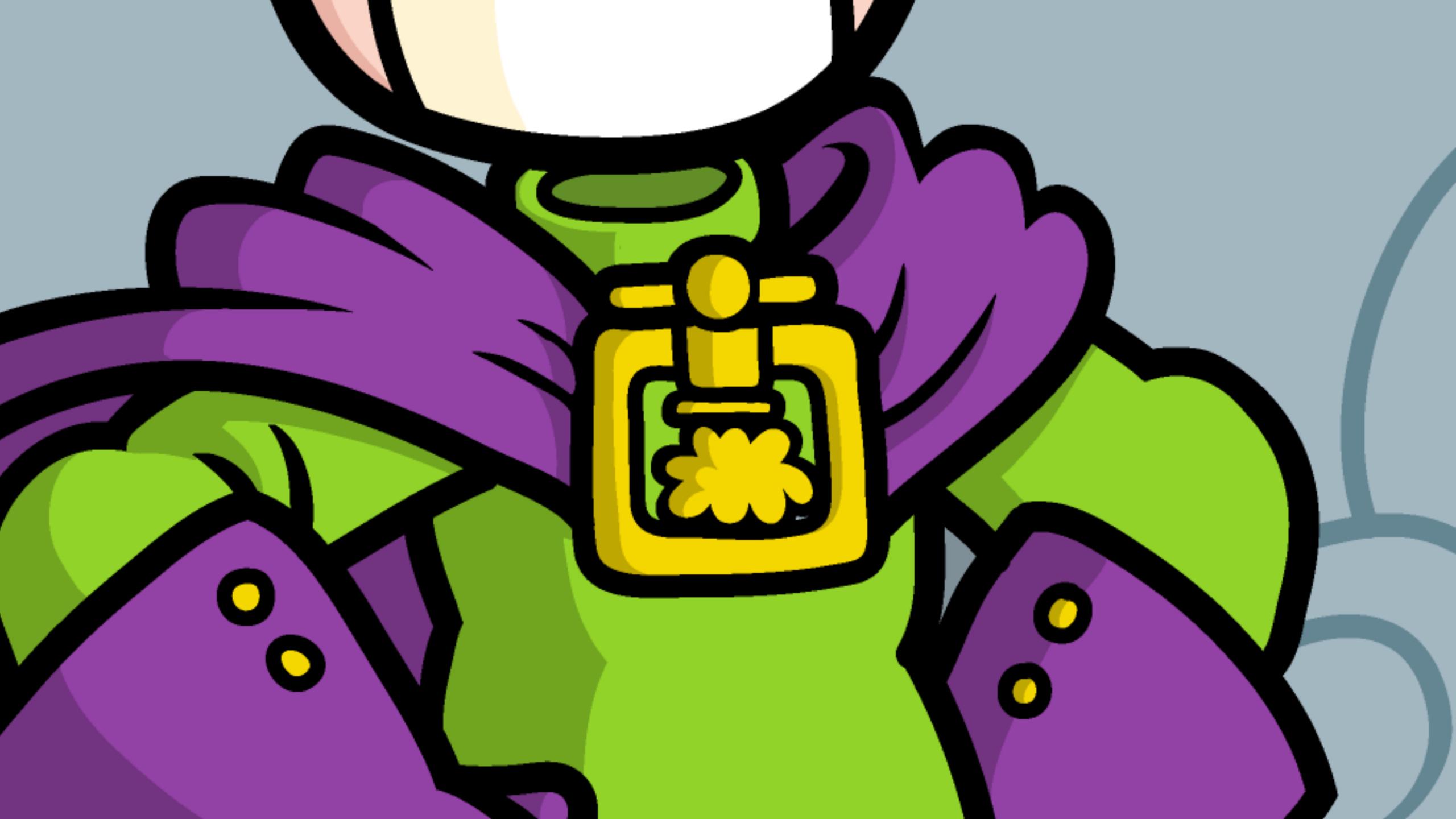
BUT WHAT OF THE RISK?





















VENDORS PROVIDING A SINGLE SERVICE DEPEND ON ITS SUCCESS MORE THAN YOU DO



TECHNICAL AND Service Level Contracts

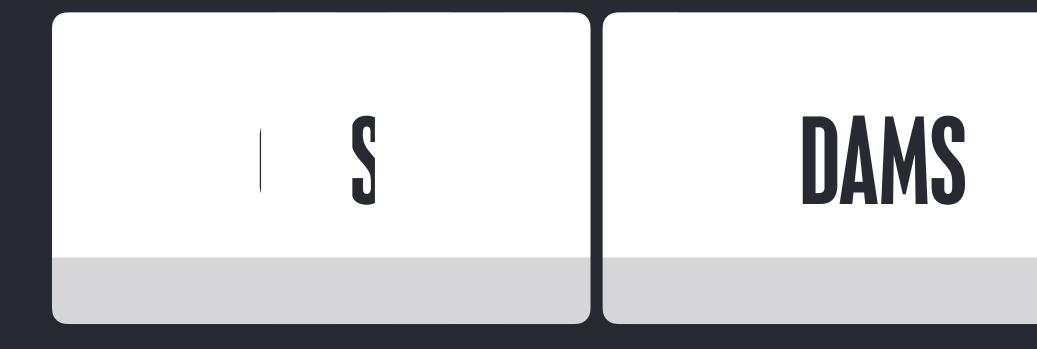




@philhawksworth

BORGET SERVICES





COMMERCE

IDENTITY



SMALLER SURFACES ARE EASIER TO **REASON ABOUT**, AND CREATE GREATER AGILITY



GREATER FOCUS PROVIDES A MORE OBVIOUS PATH TO MVP



A NOTE ABOUT MVP



I WOULDN'T USE A MINIMUM VIABLE PARACHUTE

A SPEAKER AT A CONFERENCE ONCE





I FUCKING WOULD



@philhawksworth

ME, IMAGINING A SITUATION WHEN I'D NEED A PARACHUTE





MVP IS NOT **CHOOSING A** WEAK PRODUCT OVER GOOD PRODUCT

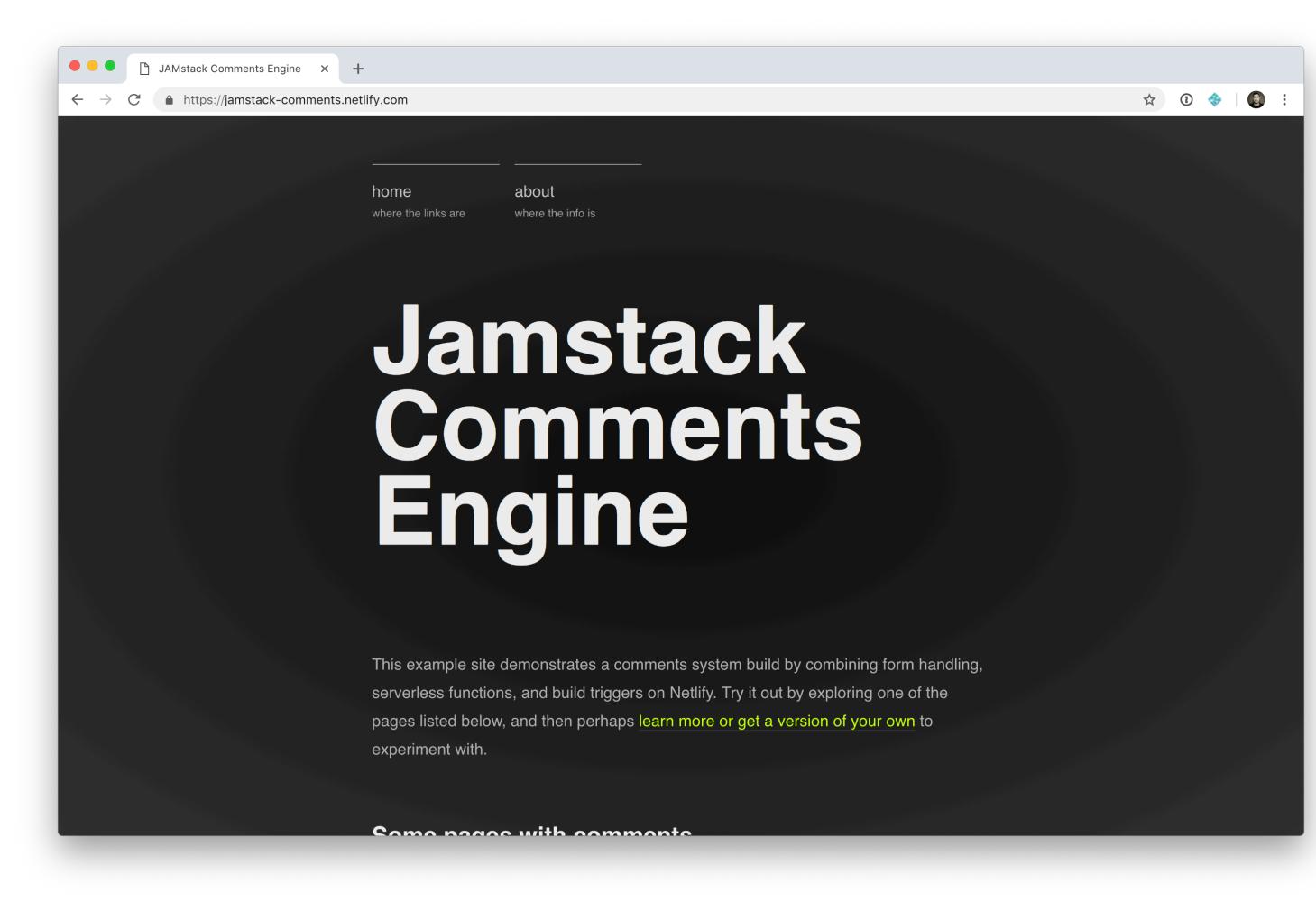


MVP IS CHOOSING TO HAVE SOMETHING NOW AND SOMETHING BETTER LATER



SERVER ESS AND

FINDTHAT.AT/COMMENTS https://jamstack-comments.netlify.com



ZERO JAVASCRIPT DEPENDENCIES

COMMENTS AS PAGE CONTENT

NOTIFICATIONS AND MODERATION VIA SLACK



WHAT IS THE JAMSTACK?

THE QUESTION WE STARTED WITH



jamstack sites are RENDERED IN ADVANCE NOT DEPENDENT ON AN ORGN PROGRESSIVELY ENHANCED IN THE BROWSER WITH JAVASCRIPT







@philhawksworth

DO WE NEED IT?

THE QUESTION WE STARTED WITH



janistack brings **REDUCED INFRASTRUCTURE COSTS** MPROVED SECURITY, PERFORMANCE. SCALABILITY **PROJECT LIFECYCLE CONFIDENCE**



STATIC SITE GENERATORS staticgen.com

NETLIFY www.netlify.com

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

PHIL'S OWN JAMSTACK SITE hawksworx.com

HEADLESS / DECOUPLED CMS headlesscms.org

ABOUT THE JAMSTACK / COMMUNITY jamstack.org

THE NEW DYNAMIC www.thenewdynamic.org/



FINDTHAT.AT/CONF https://jamstackconf.com

•••	JAMstack_conf	× +	-		
\leftrightarrow \rightarrow G	https://jamstack	conf.com			
+					
0			J	JAM	S
		Home	Jobs	Schedule	Ve
X		00	ctobe	r 29th-	30
		Attend the		event to le web proje	
					Ge
/					

tack_conf

/enue What is the JAMstack? Hackathon

th 2018 San Francisco

n how to design, develop, and deploy fast, s that run without web servers.

et Tickets

.

. .

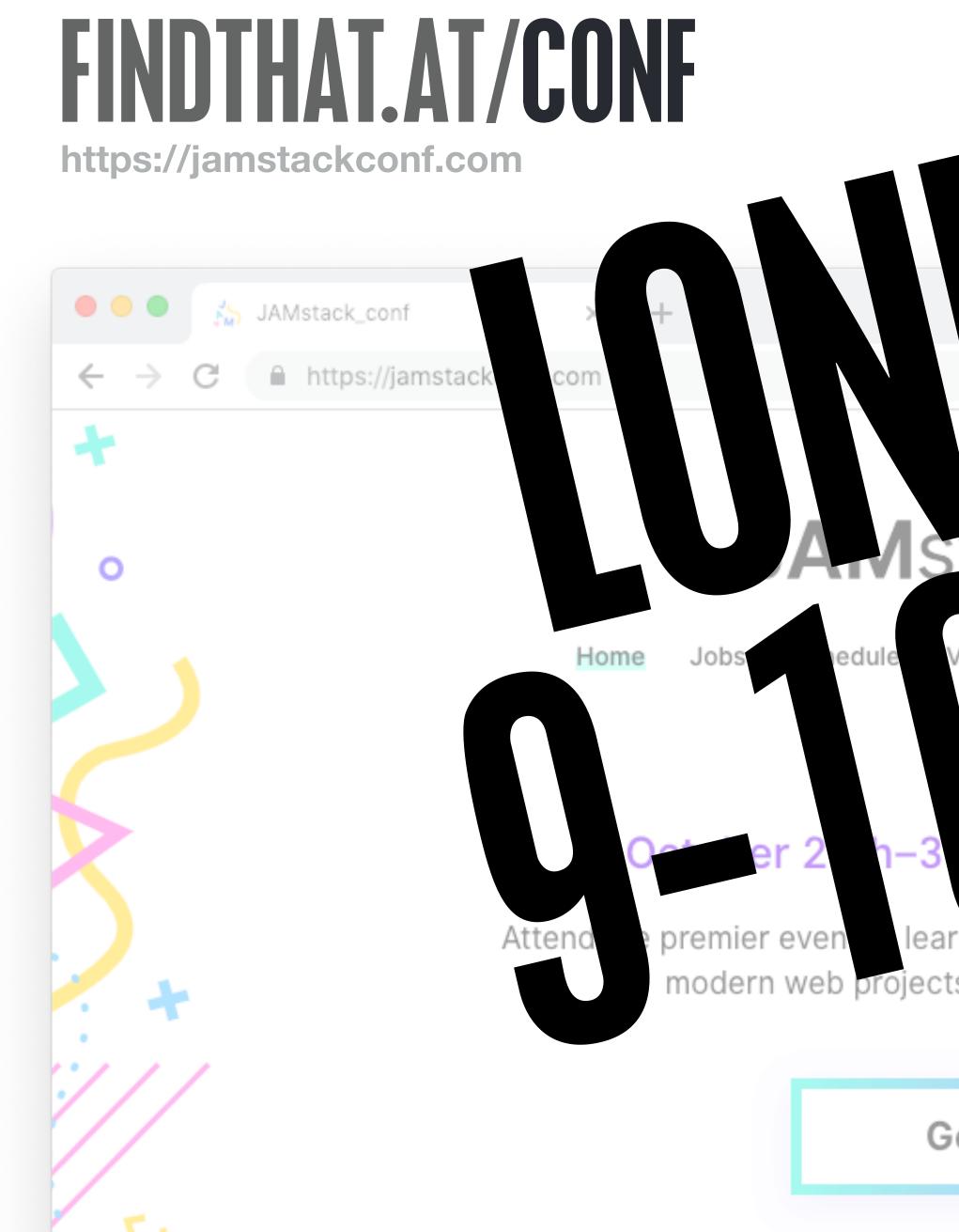
3

٢,

☆

1





☆ С ۲٦ stack What is JA ck? on la Vei + 18 Sa 300

premier even learn new to design, develop, and deploy fast, modern web projects that run without web servers.

Get Tickets

THANKS FIND THANKSWORTH

OPHILHAWKSWORTH