Flash Sale Engineering

by @EmilStolarsky



Who's this ugly baby?



















Write Heavy Traffic







Omg I was soooo close of getting a Posie K

WHYYY YOU CR #KYLIECOSMETI



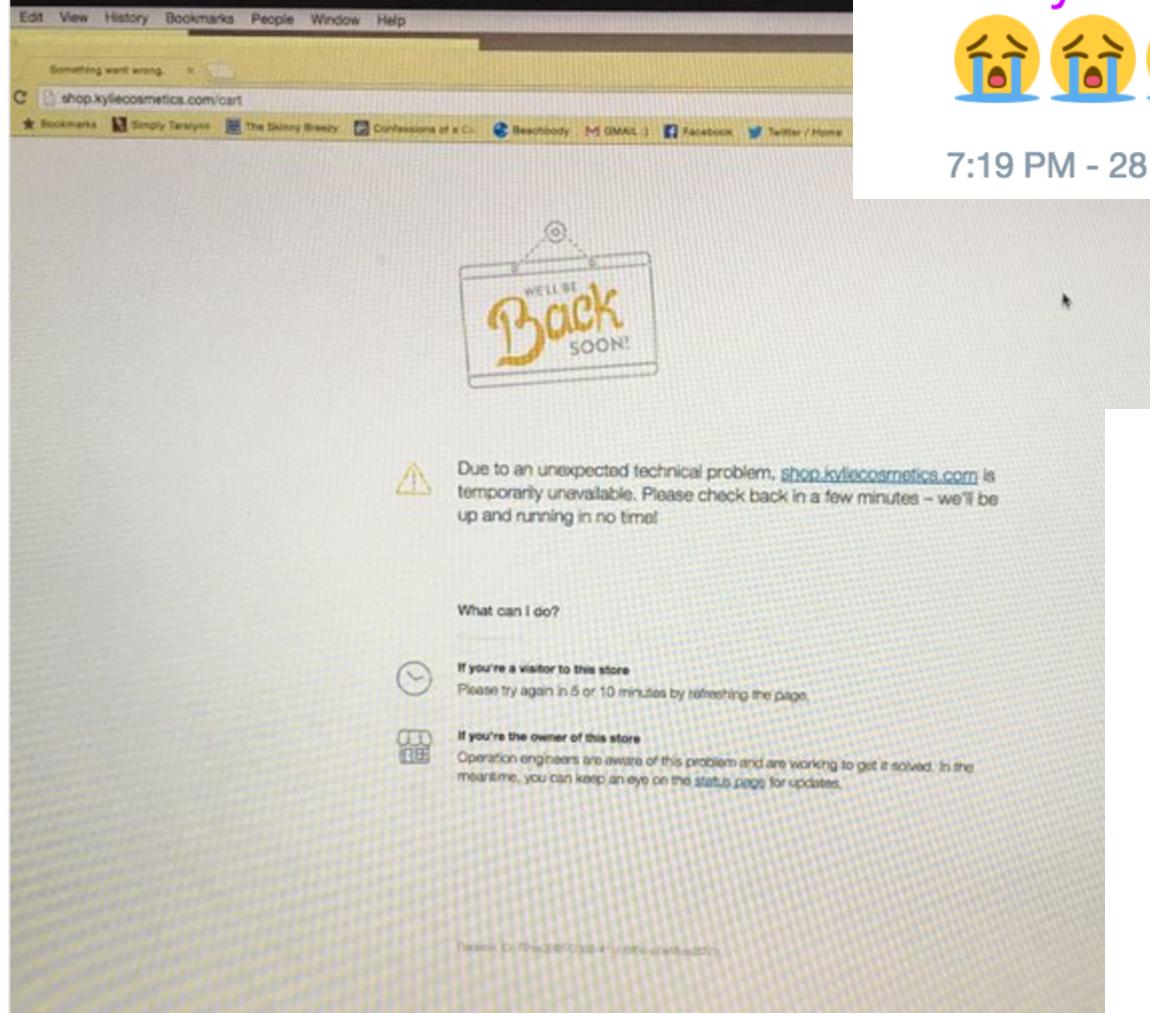


Why meeeee!
I'm just so sad right now. I'm gonna cry.
@KylieJenner its not your fault but this REALLY
FUCKEN SUCKS!
#KYLIECOSMETICS

7:20 PM - 28 Mar 2016



The epitome of @kyliecosmetics **#KYLIECOSMETICS**

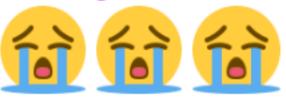






Follow

And now everything is sold out what the F @KylieJenner #KylieLipKit #KYLIECOSMETICS



7:19 PM - 28 Mar 2016

e of getting a Posie K



Why meeeee!

I'm just so sad right now. I'm gonna cry.

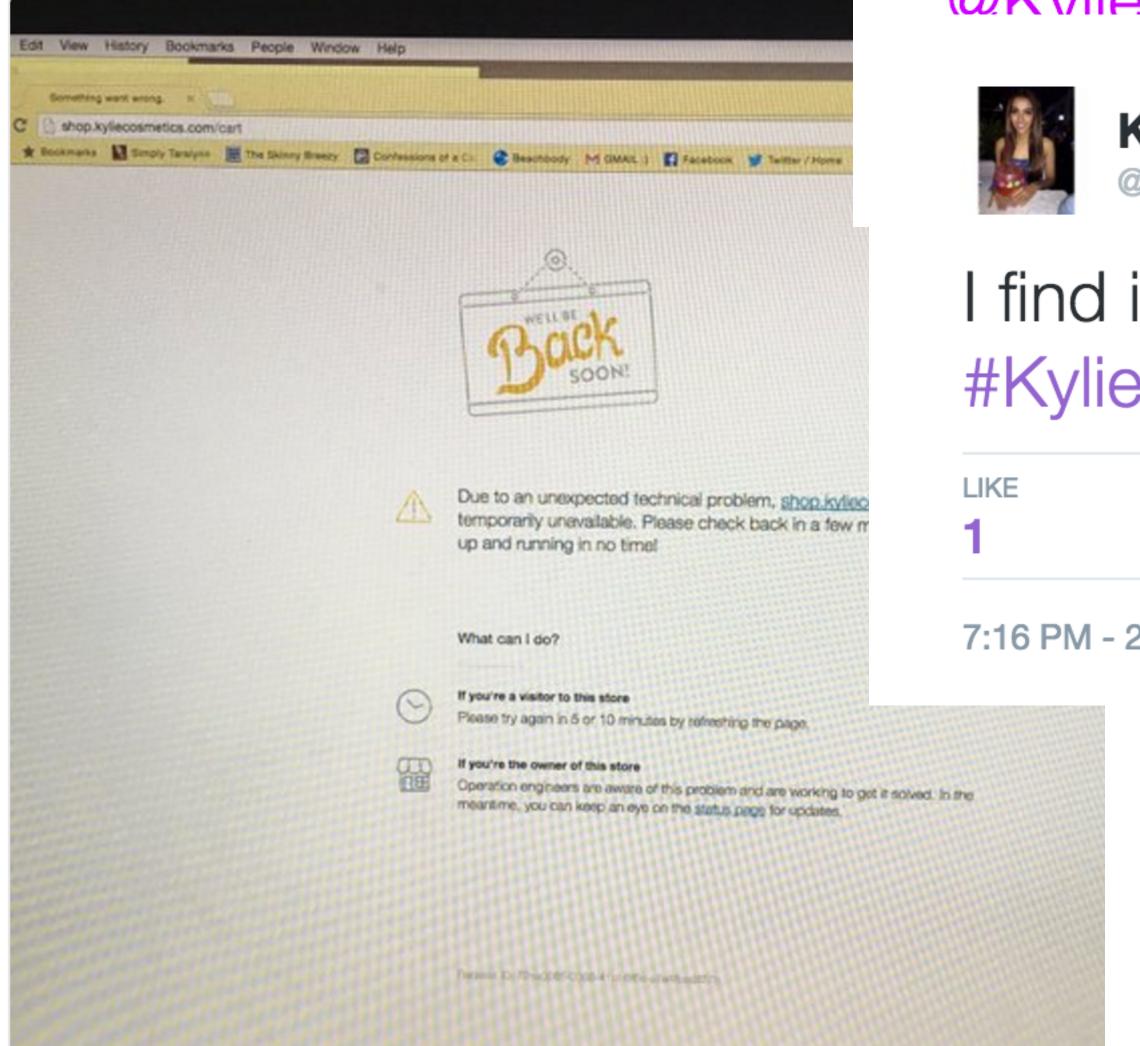
@KylieJenner its not your fault but this REALLY FUCKEN SUCKS!

#KYLIECOSMETICS

7:20 PM - 28 Mar 2016



The epitome of @kyliecosmetics **#KYLIECOSMETICS**







And now everything is sold out what the F @Kylie.lenner #Kyliel inKit #KYLIECOSMETICS

> KG @_KarlaGomes





I find it ridiculous how hard it is to get #Kyliecosmetics

7:16 PM - 28 Mar 2016

I'm just so sad right now. I'm gonna cry. @KylieJenner its not your fault but this REALLY FUCKEN SUCKS! **#KYLIECOSMETICS**

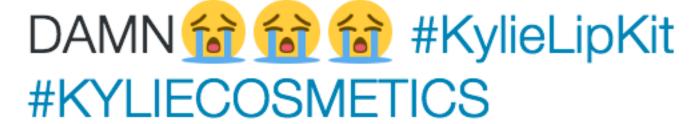
7:20 PM - 28 Mar 2016





neyenne_ YY_TJJE







veverything is sold out what the Fenner #Kyliel inKit #KYLIFCOSMETICS



Due to an unexpected technical problem, shop.kyliecosmetics.com is temporarily unava check back in a few minutes – we'll be up and no time!

What can I do?

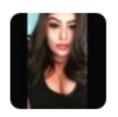
@jenniferklobus

0

If you're a visitor to this store

Jennifer Lynn Klobus

Please try again in 5 or 10 minutes by refreshi









I'm hot now I got this after it said processing order in 2 mins #KylieLipKit #KYLIECOSMETICS [et @KylieJenner fix it]









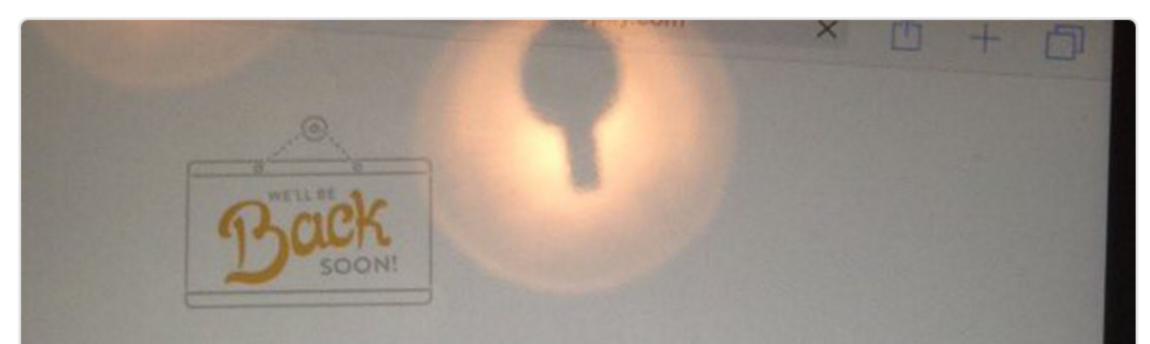


@kyliejenner @kyliecosmetics got as far as the payment processing but then the page timed out how do I know it went through?

#KYLIECOSMETICS

7:16 PM - 28 Mar 2016

WHHHHYYY. It's happened 6 times now!! #KylieLipKit #KYLIECOSMETICS













Bad one today hais #kyliecosmetics





Why the thin #KylieLipKit #KYLIECOSMETICS @kyliecosmetics @KylieJenner



1eye

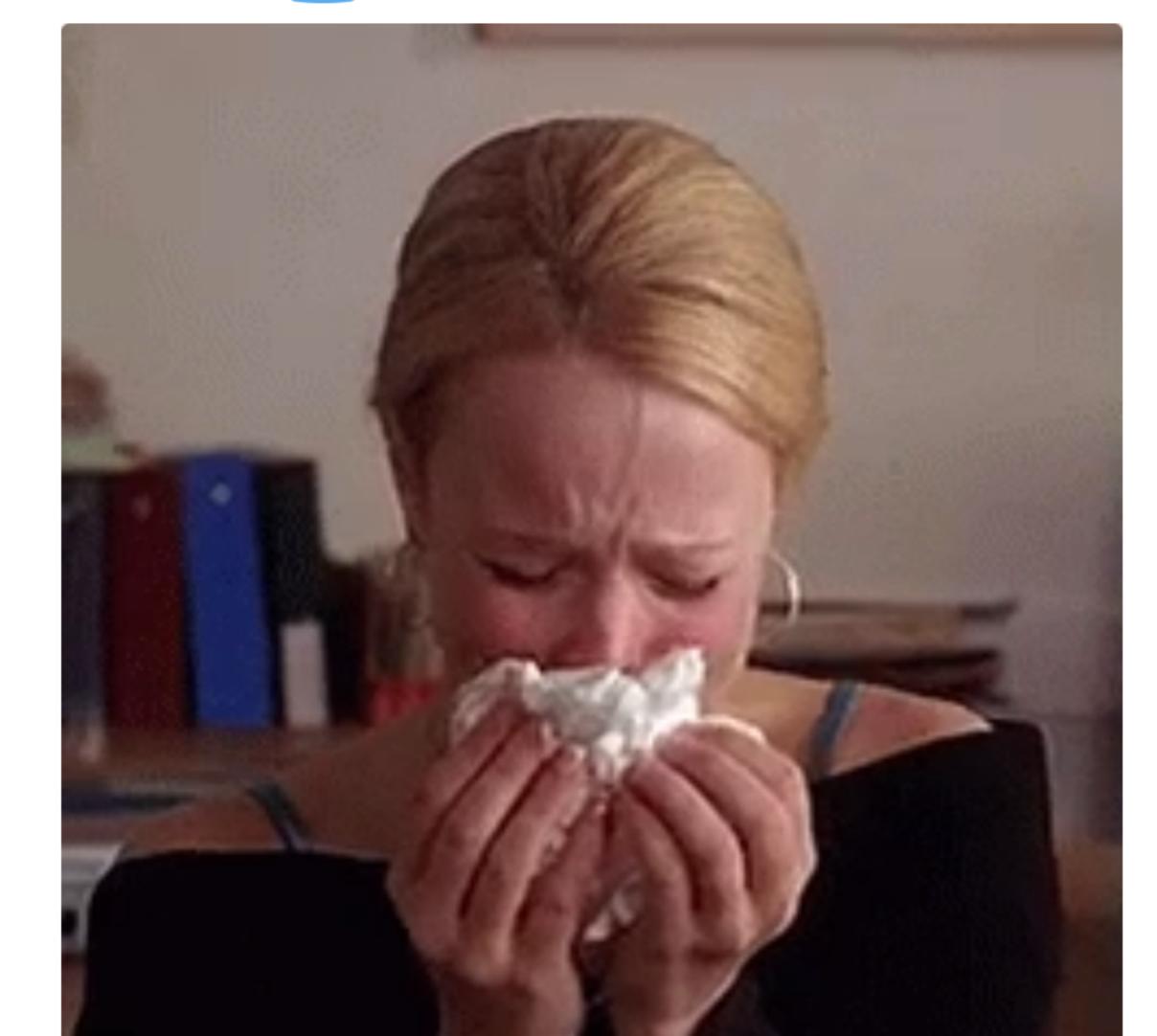
YY_T

 $I \in \mathbb{N}$

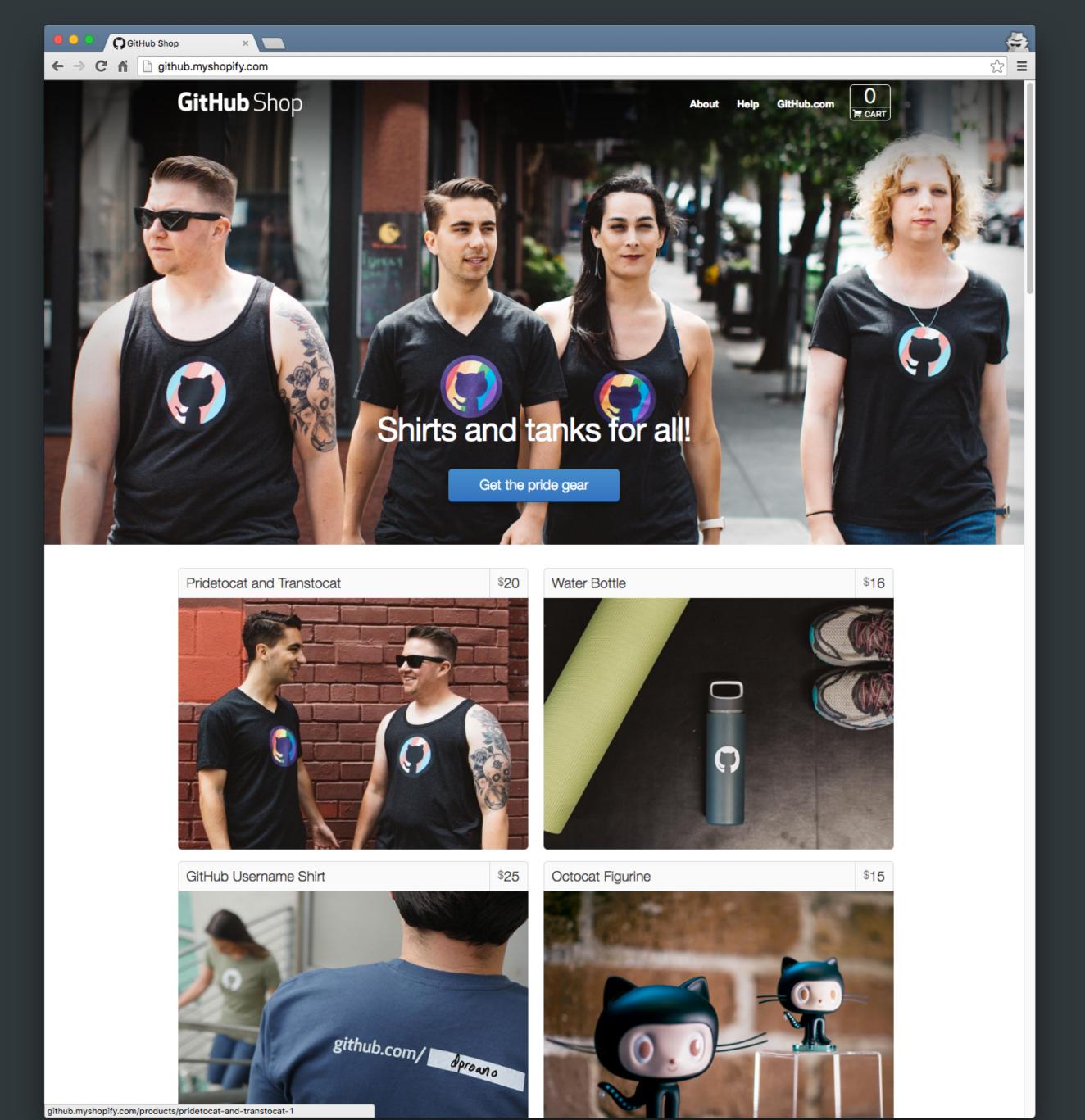
Follow



Trying to buy #DolceK #KylieLipKit and i want to cry because #KYLIECOSMETICS is having difficulties







THE INTERNET

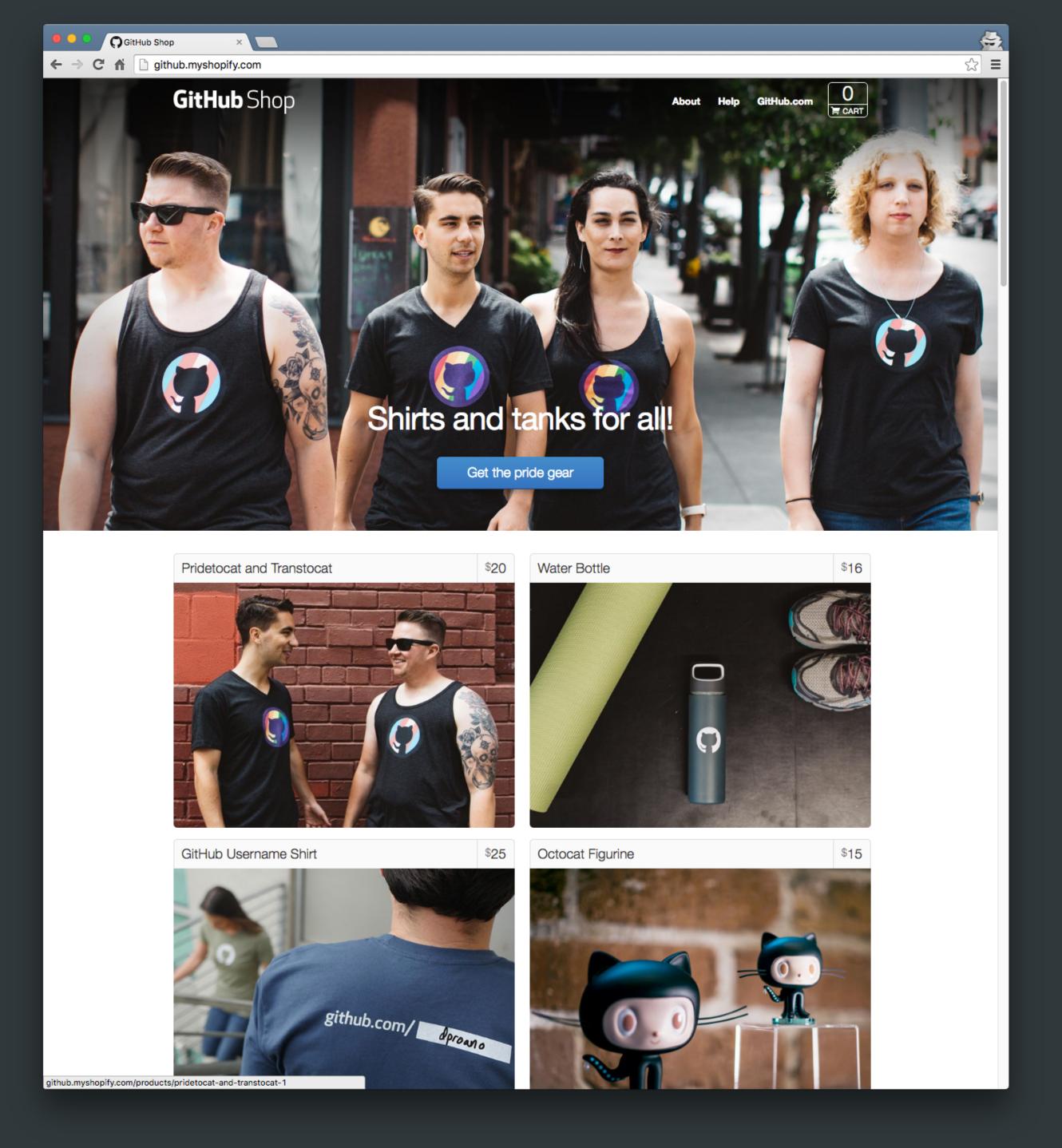
LB

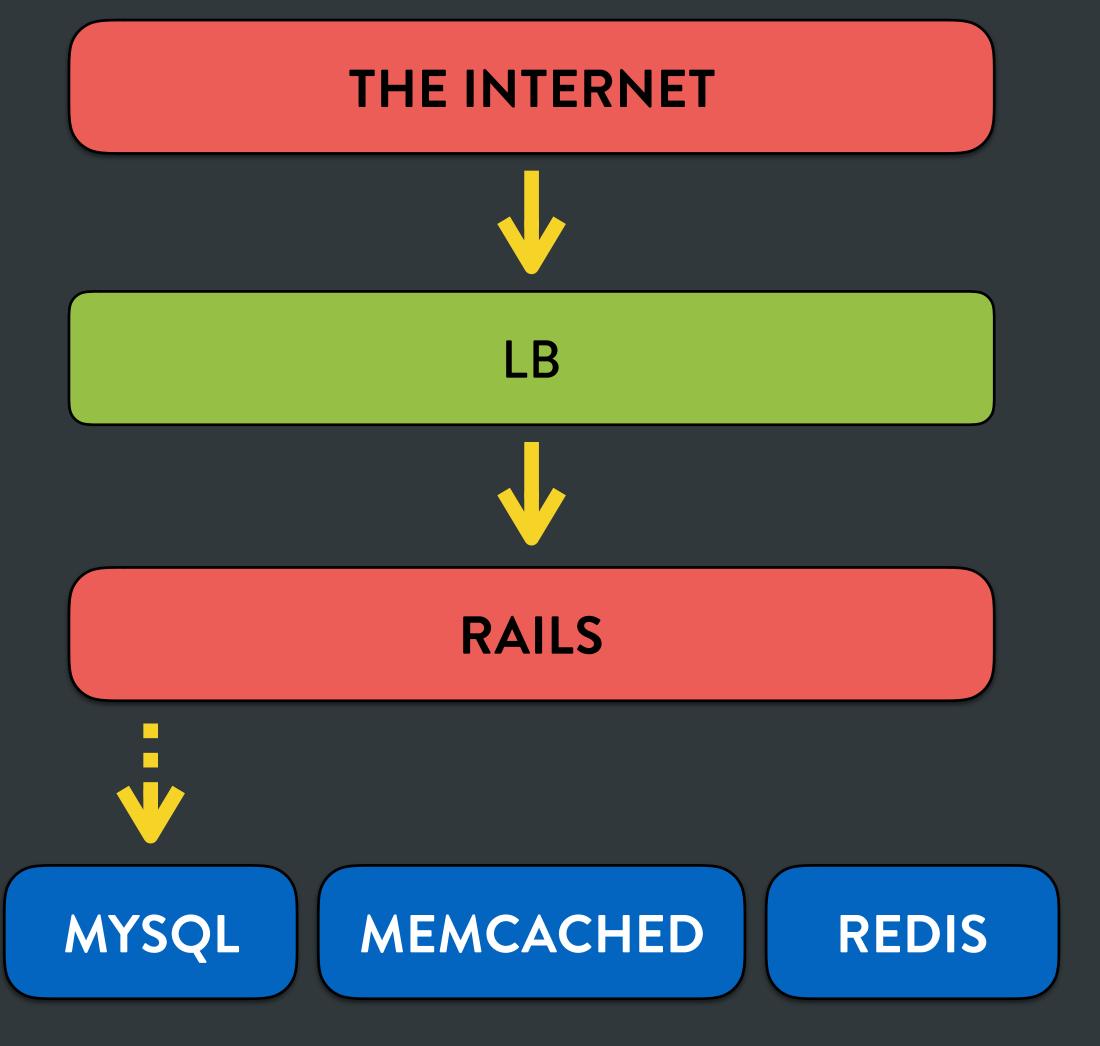
RAILS

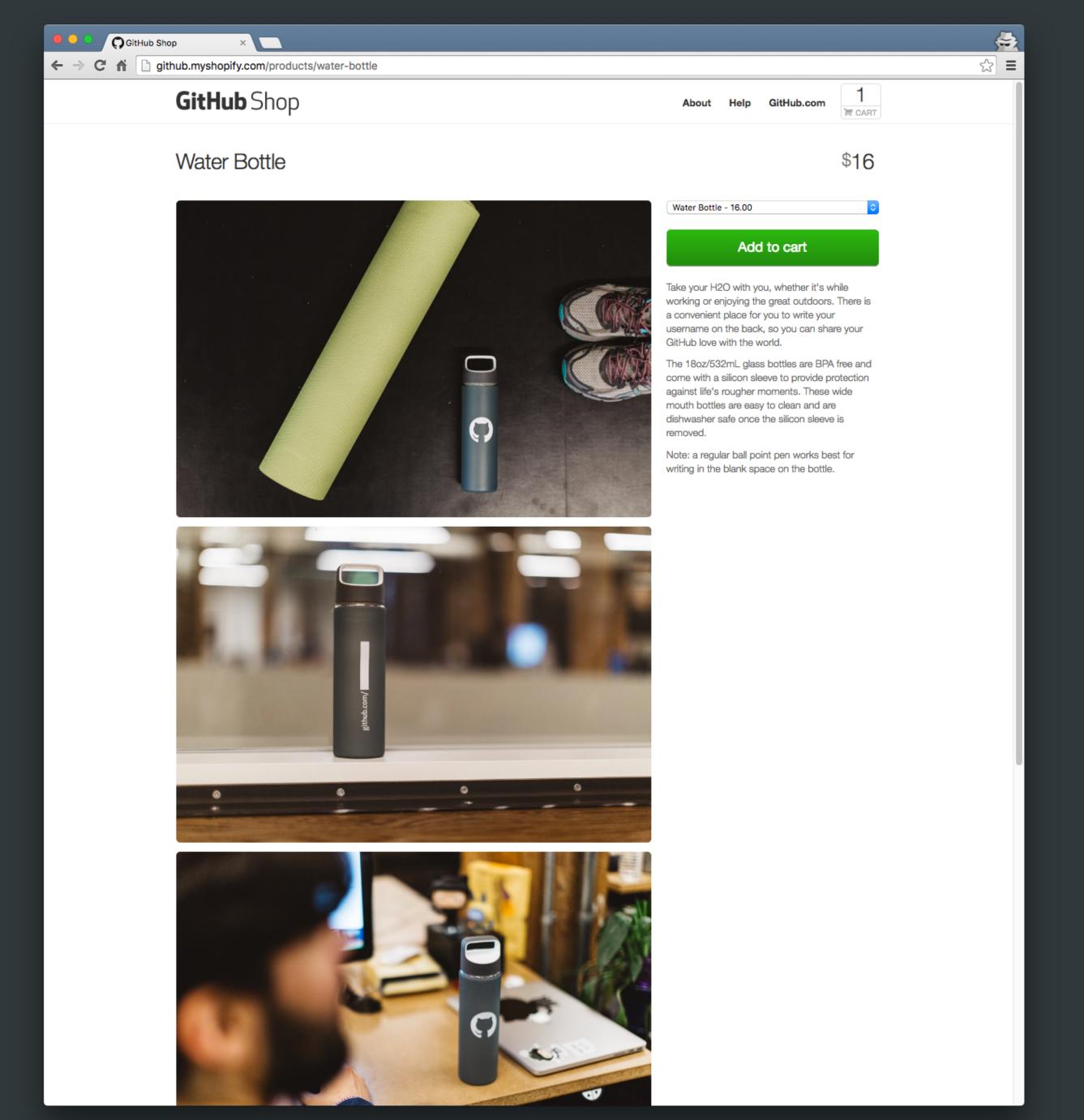
MYSQL

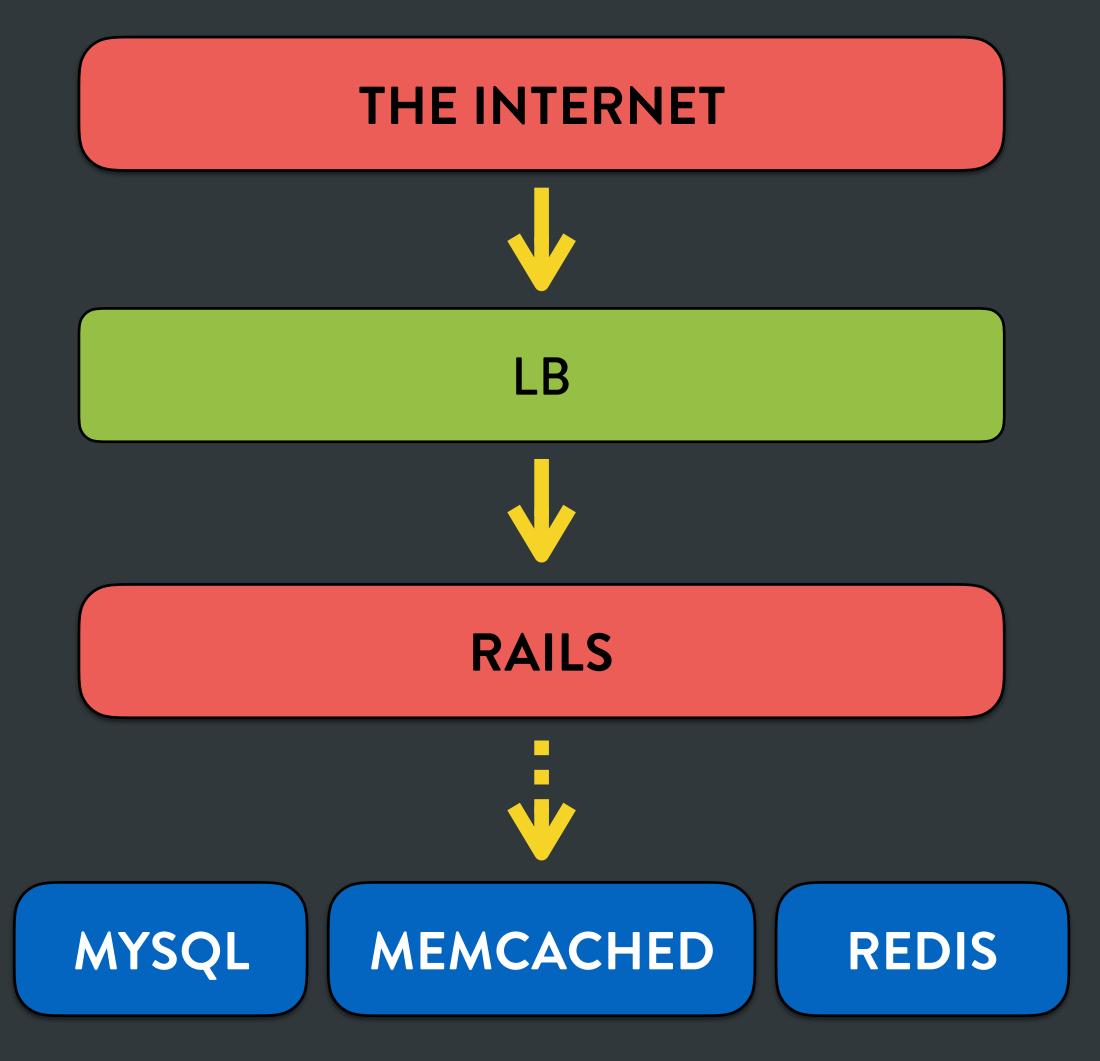
MEMCACHED

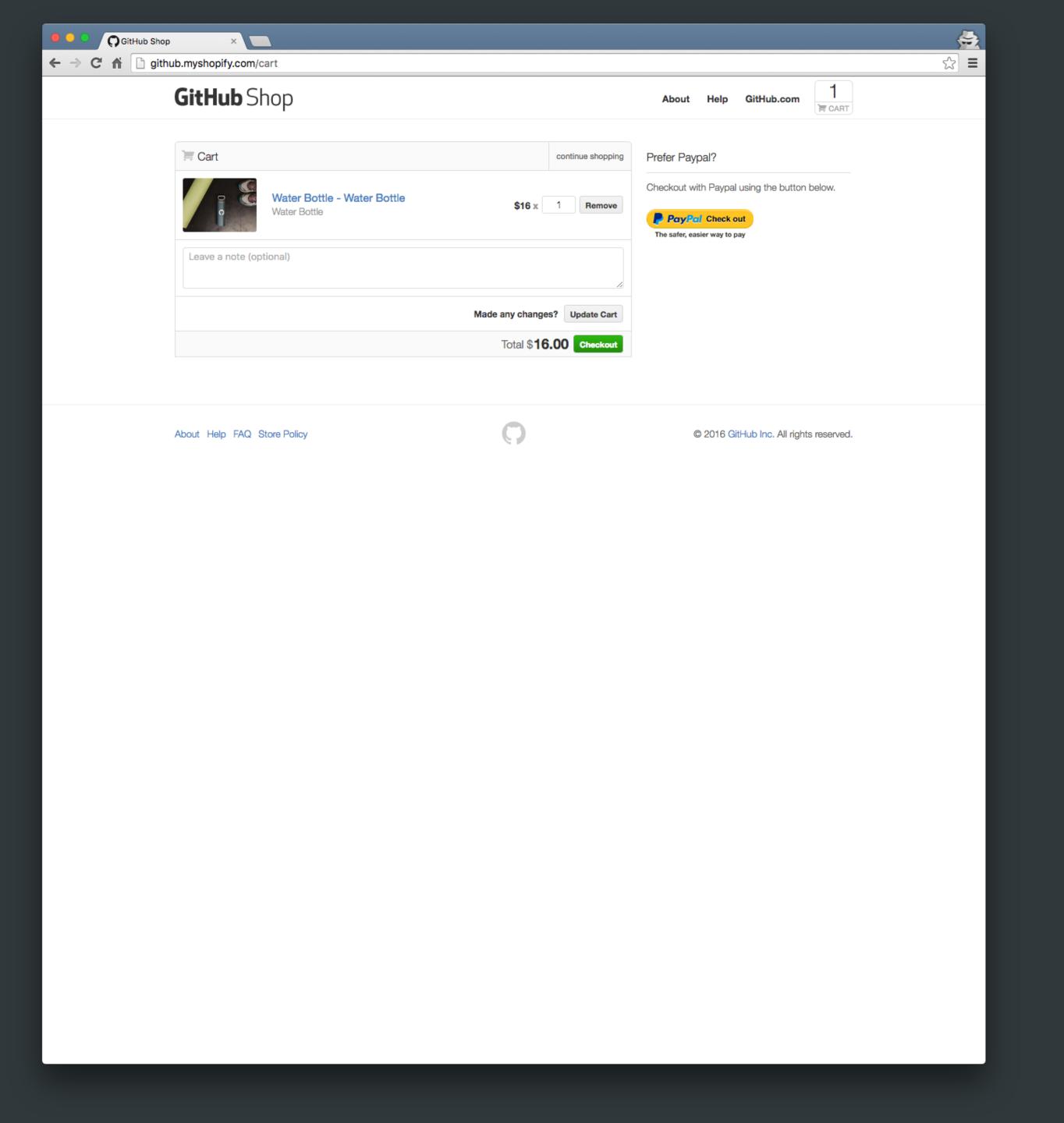
REDIS

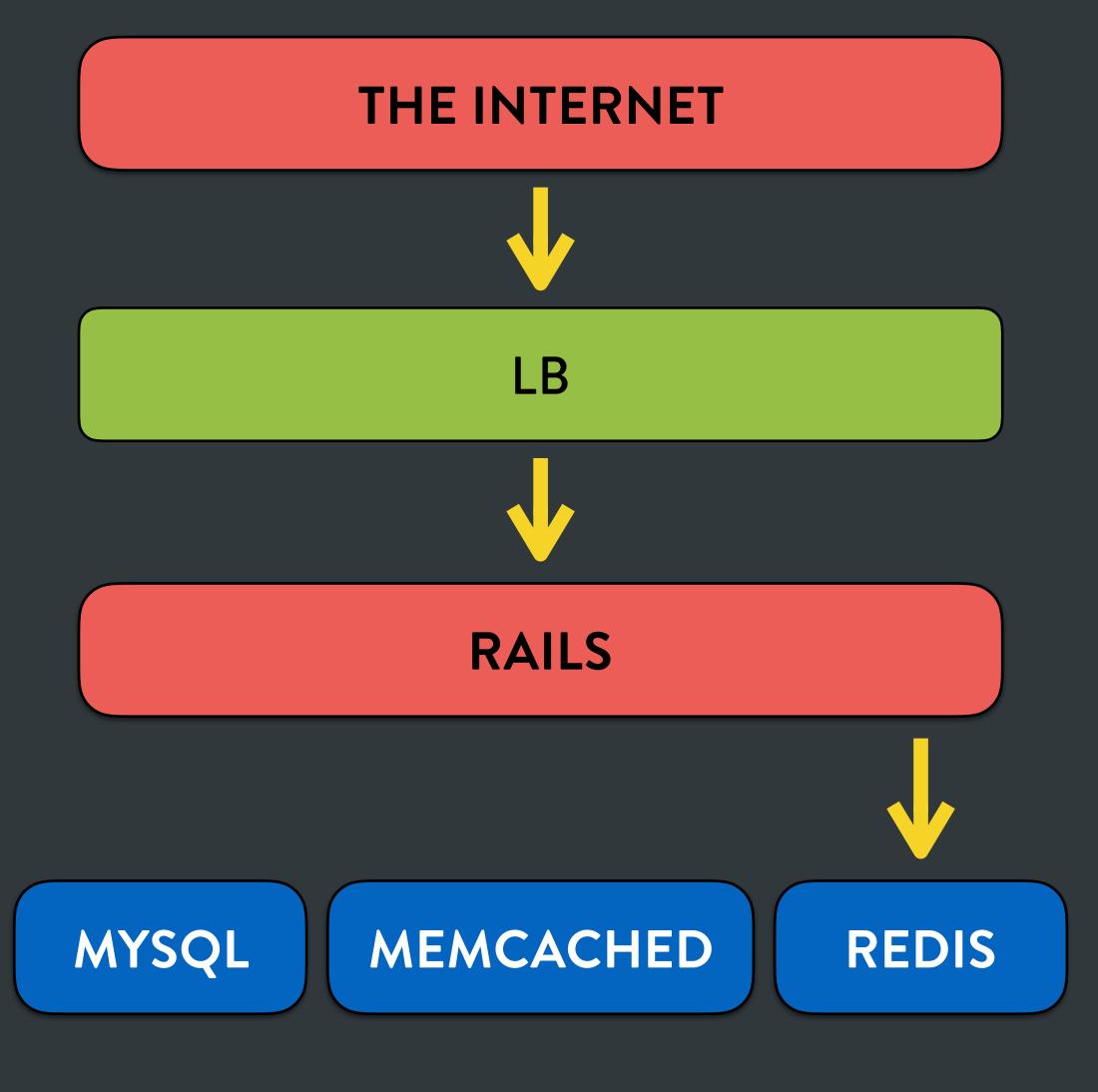


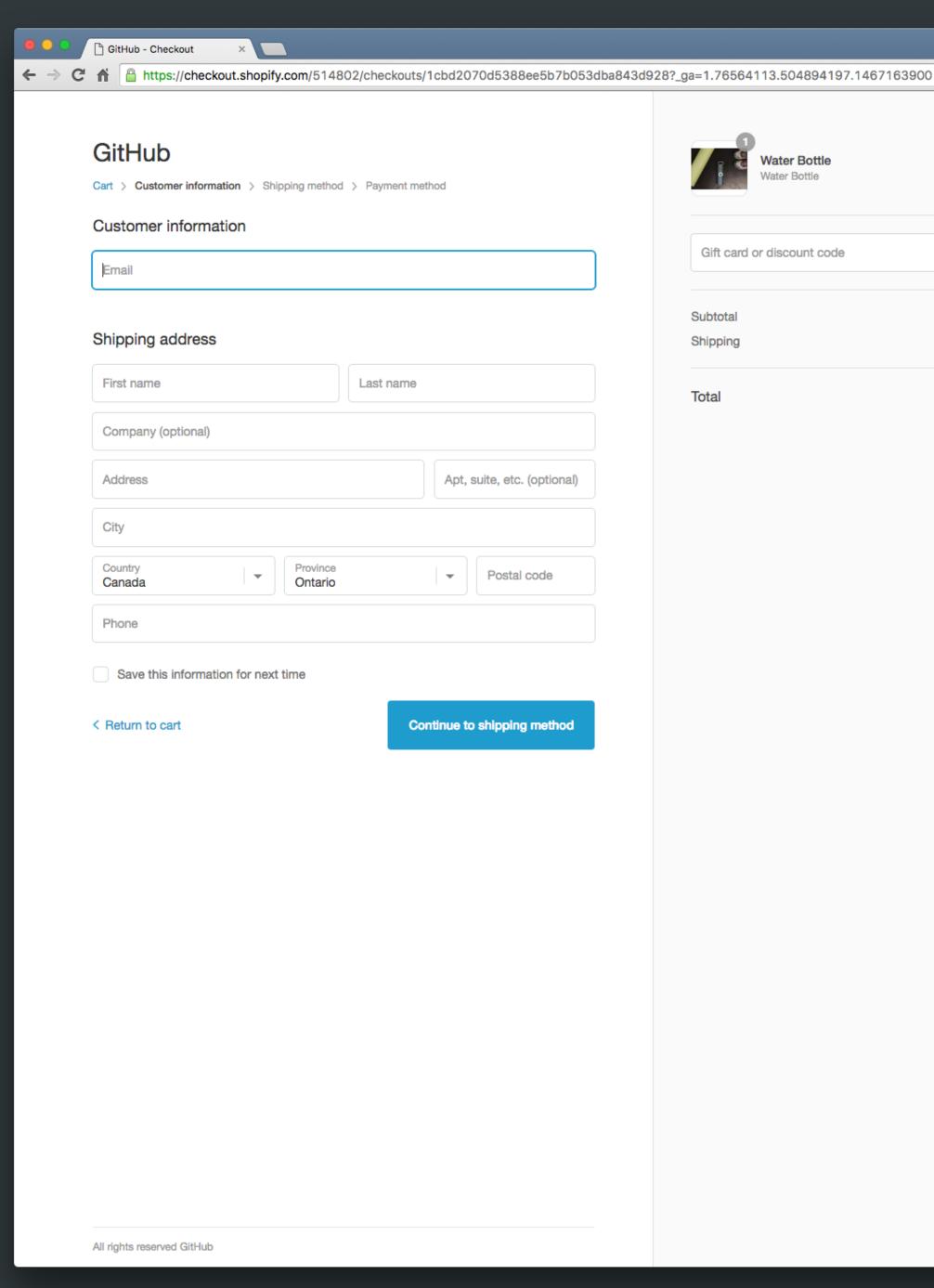


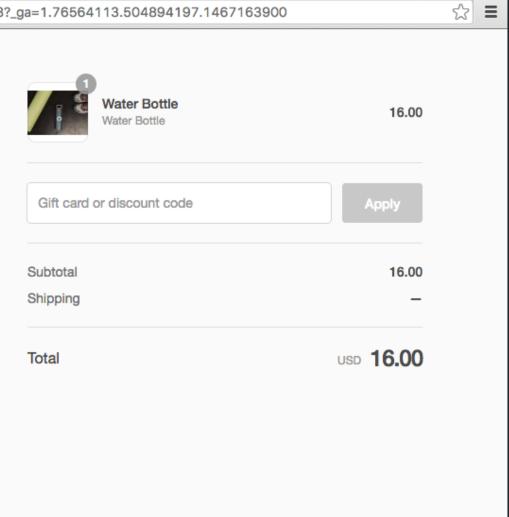


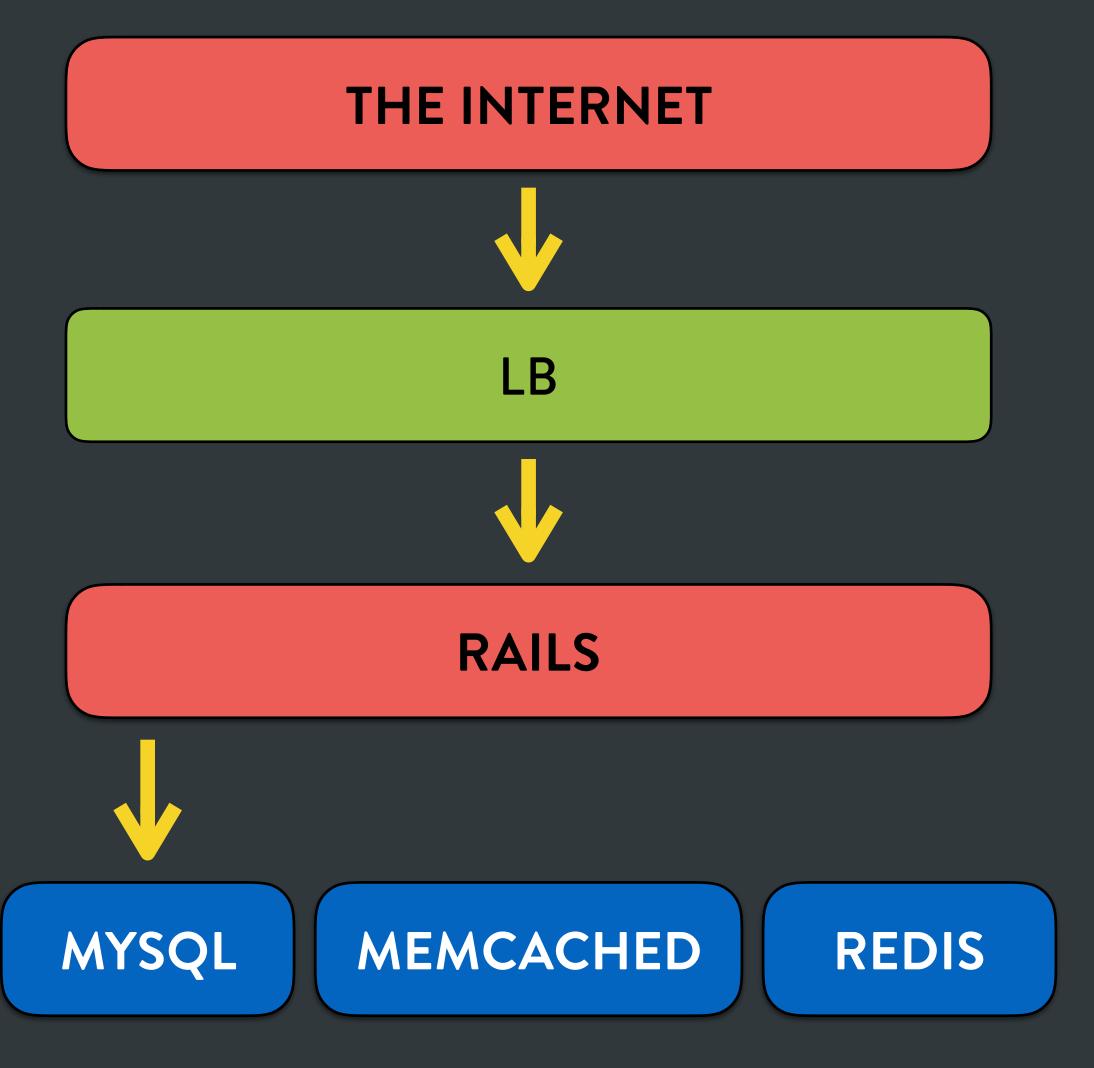


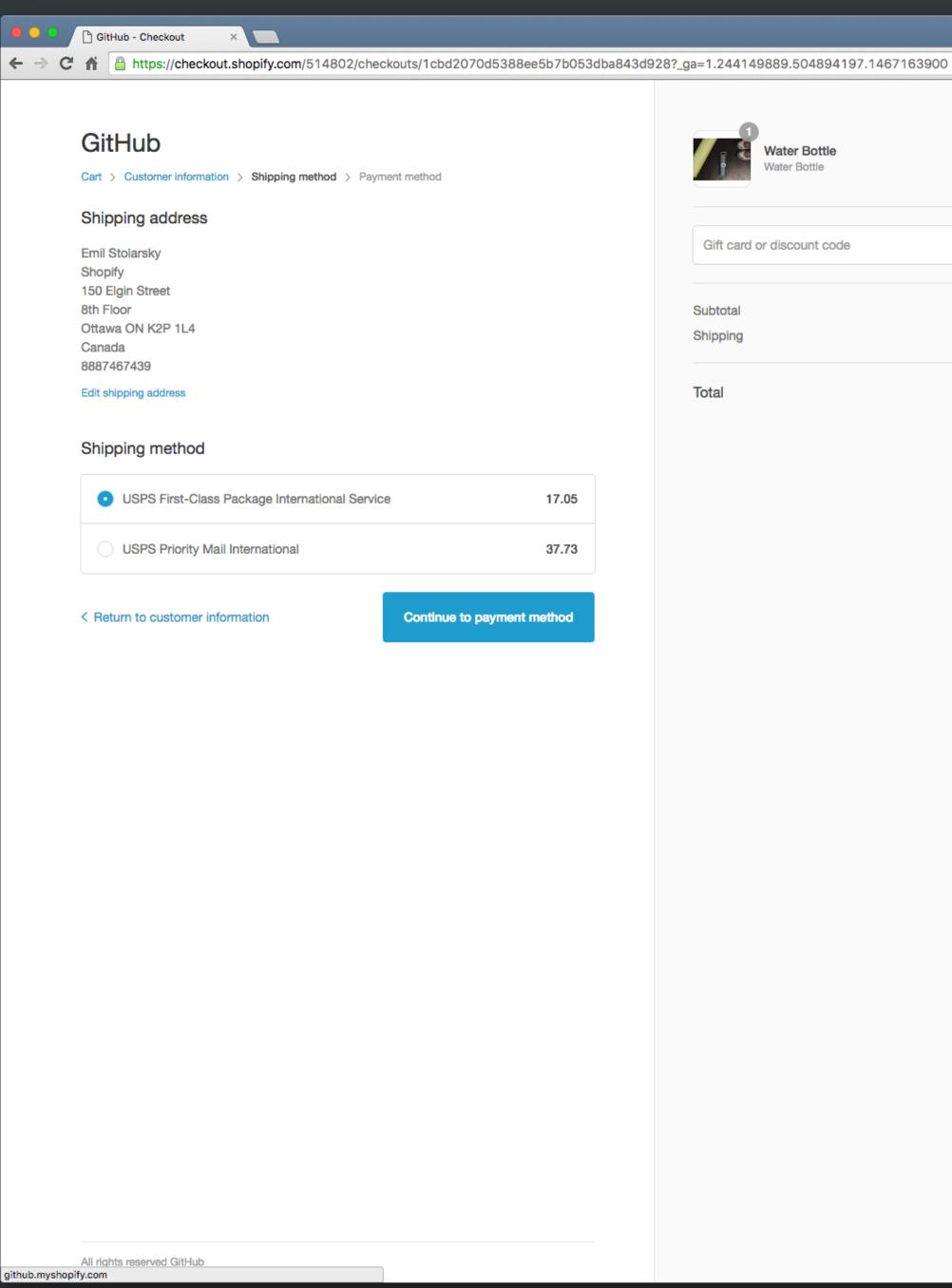


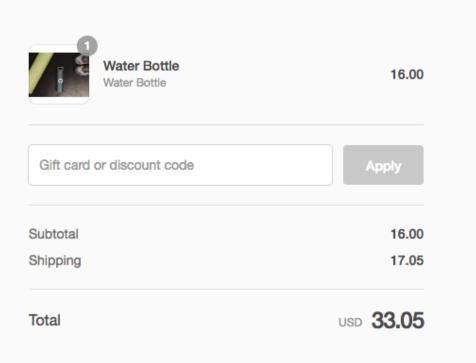




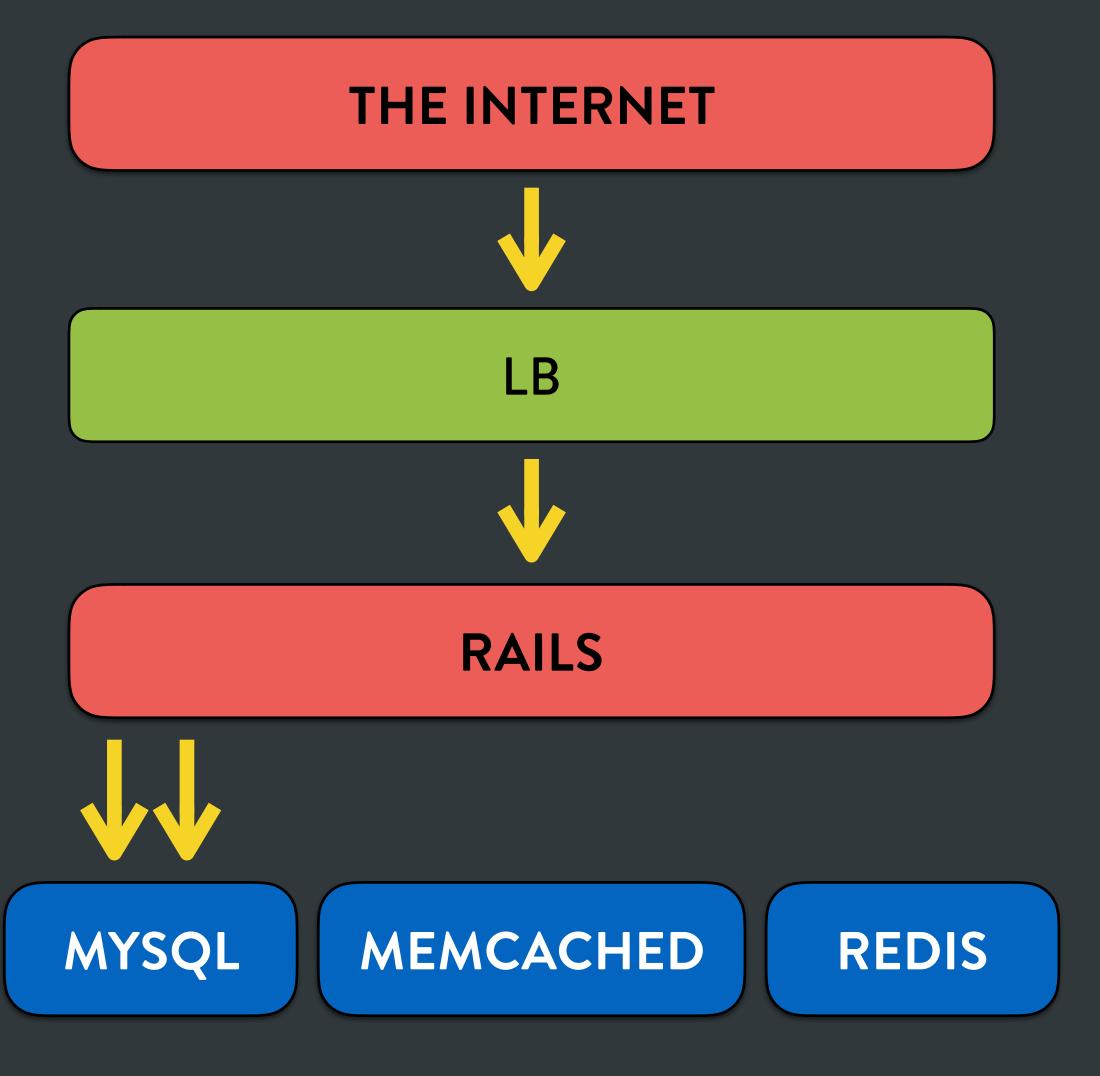


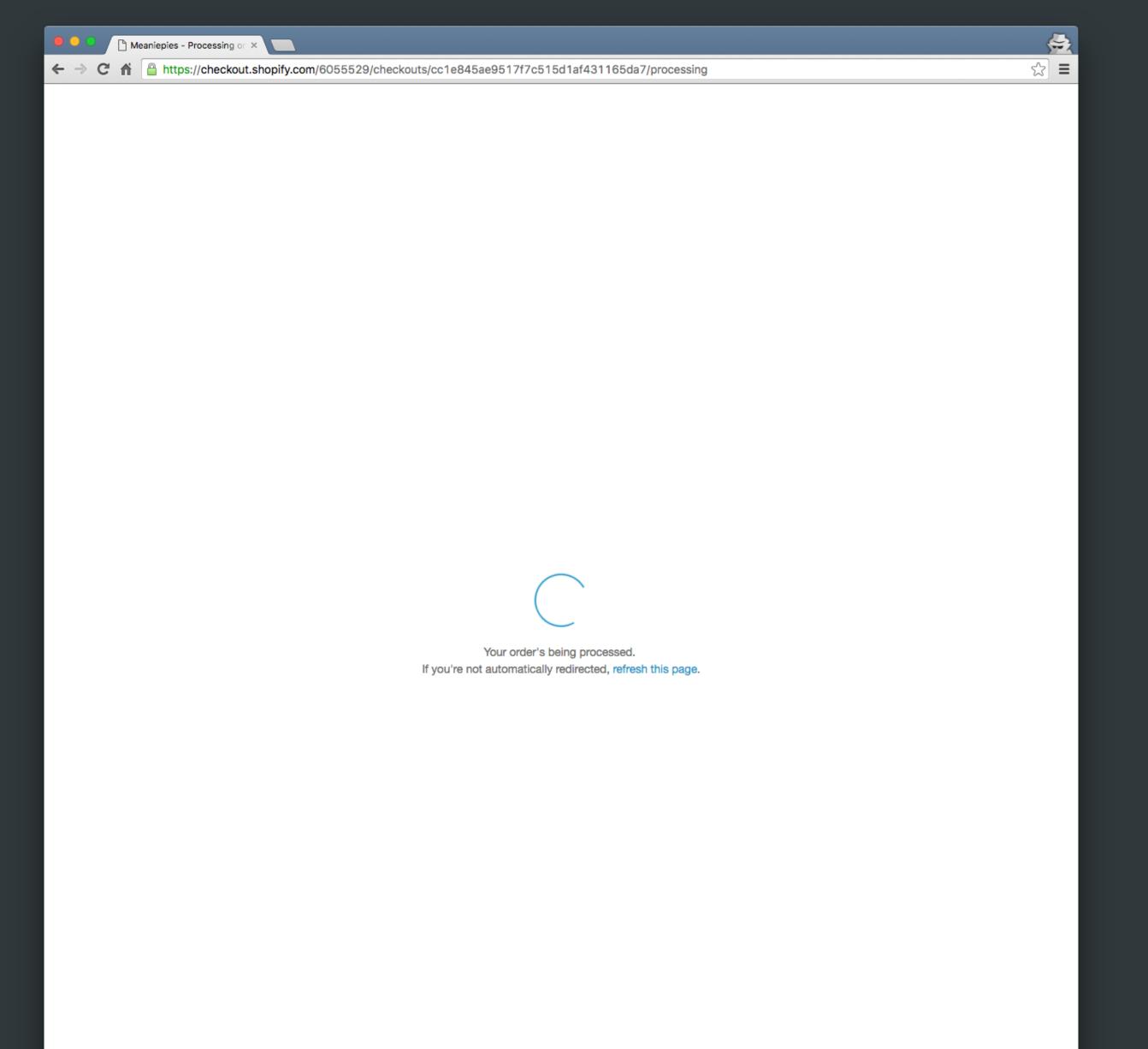


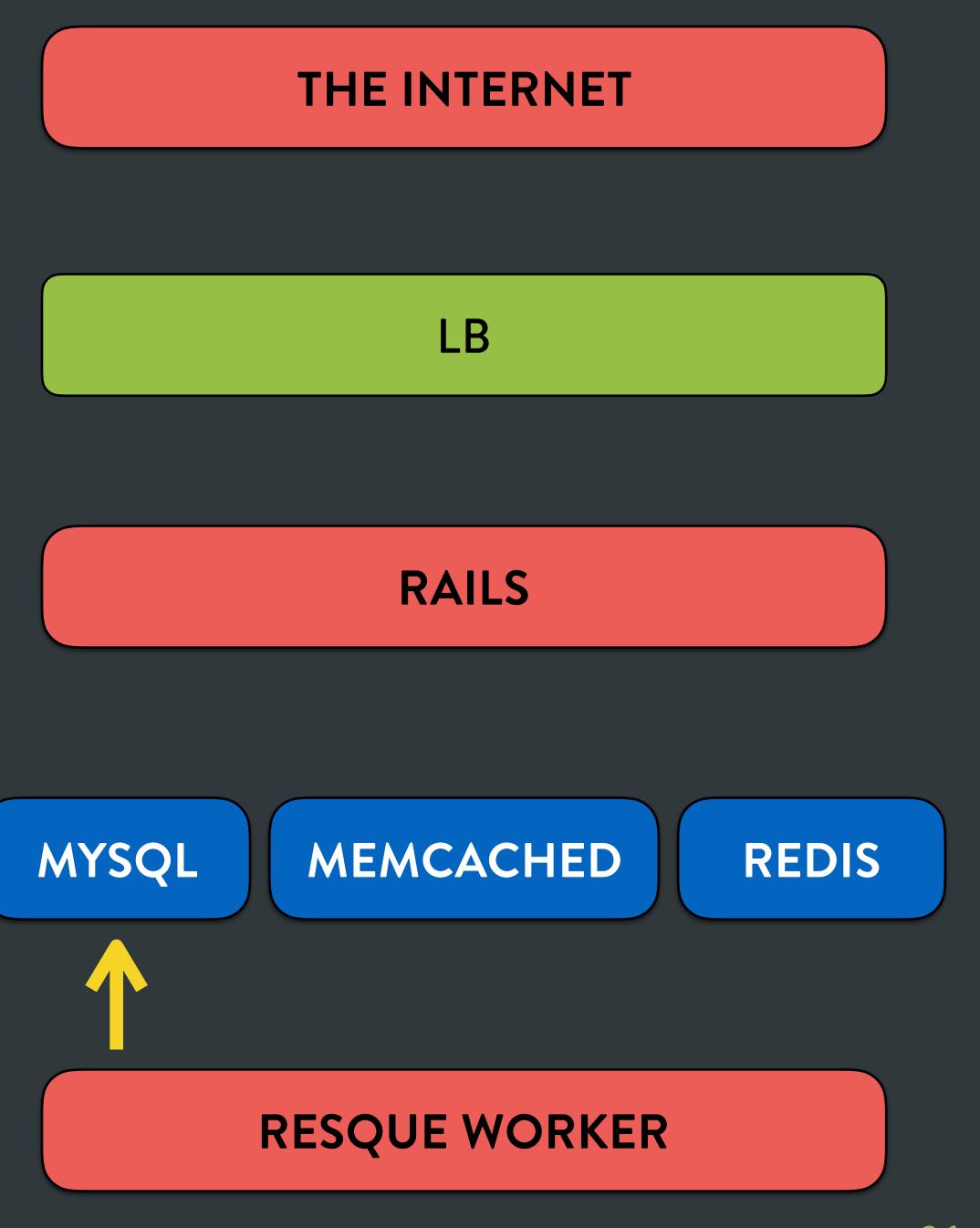




☆≡







Not Really Github





Your shipment is confirmed

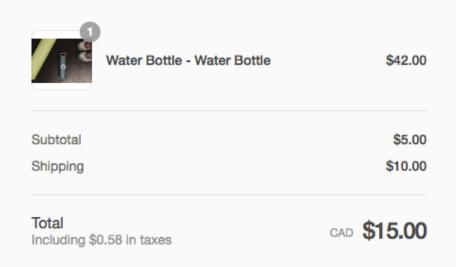
We've accepted your order, and we're getting it ready. A confirmation email has been sent to **emil@shopify.com**. Come back to this page for updates on your shipment status.

Customer information

Shipping address	Billing address
Emil Stolarsky	Emil Stolarsky
Shopify	Shopify
150 Elgin Street	150 Elgin Street
8th Floor	8th Floor
Ottawa ON K2P 1L4	Ottawa ON K2P 1L4
Canada	Canada
8887467439	8887467439
Shipping method	Payment method
Anything	B ending with 1 — \$15.00

? Need help? Contact us

Continue shopping





LB

RAILS

MYSQL MEMCACHED REDIS

RESQUE WORKER

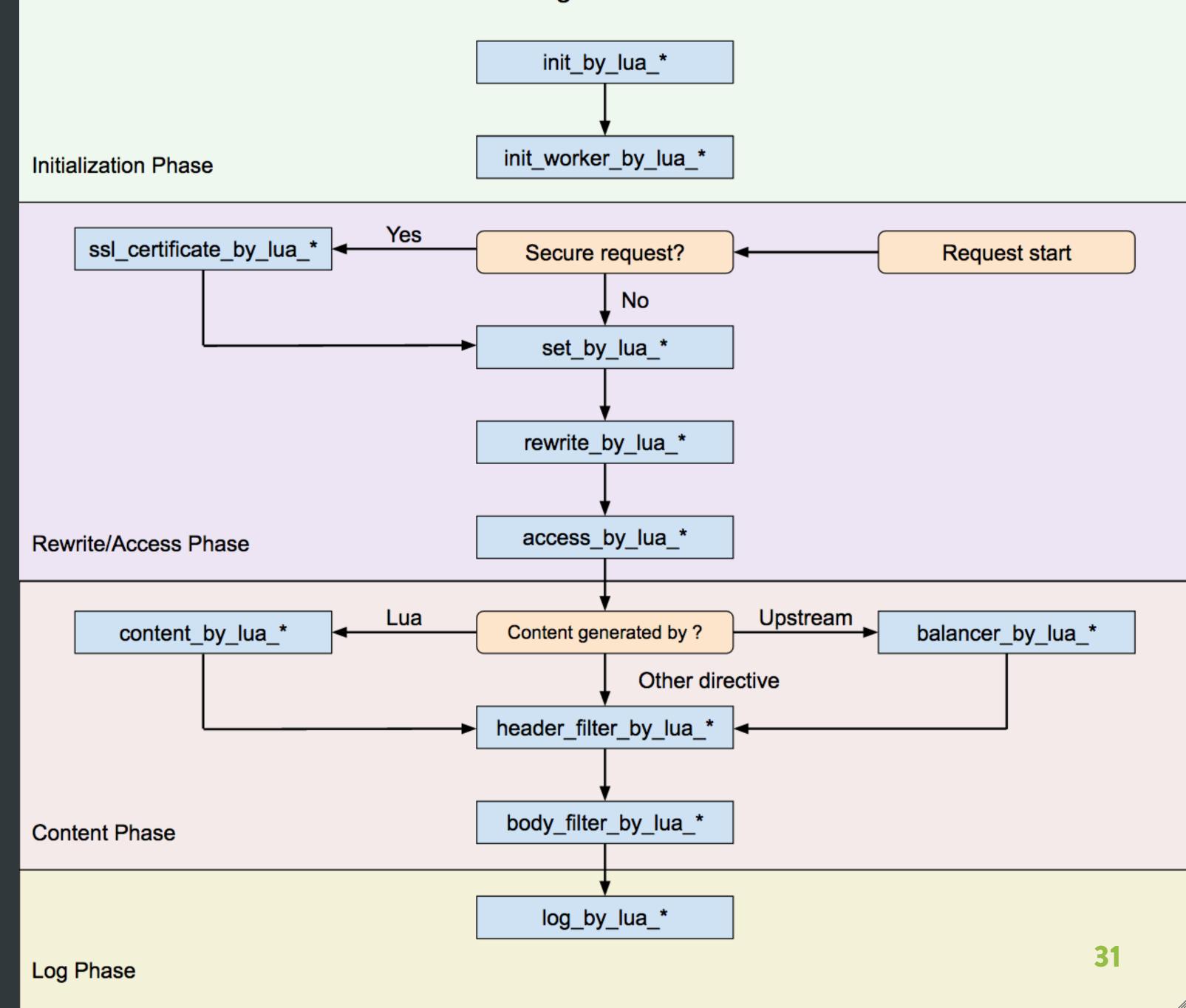
- 1. Right Tool
- 2. Heat Shield
- 3. Order out of Chaos

Sinx

Robust Piece of Software

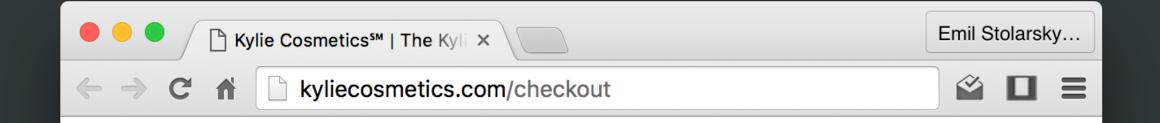
Lua

Order of Lua Nginx Module Directives



- 1. Right Tool
- 2. Heat Shield
- 3. Order out of Chaos

Back Pressure



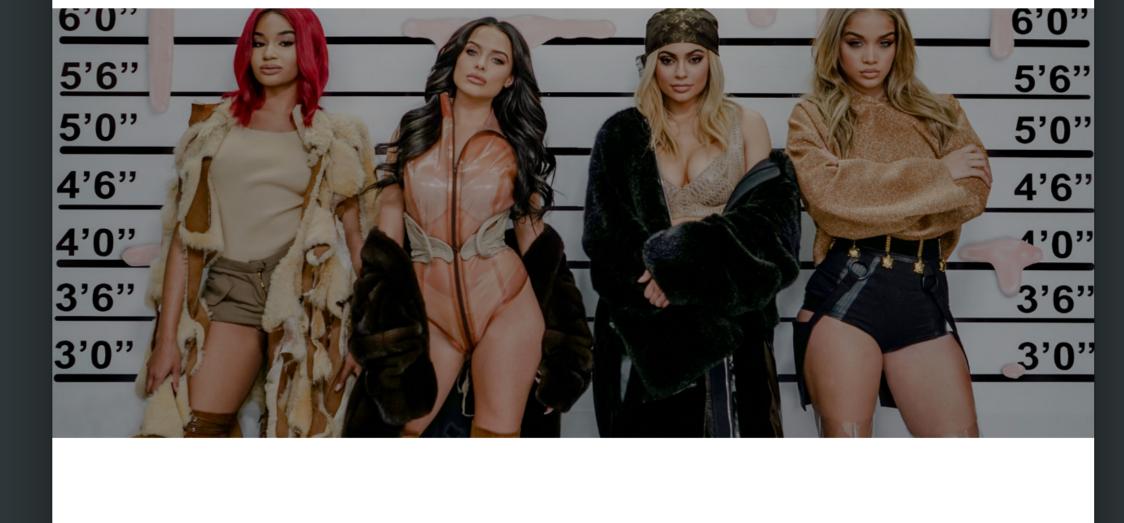
LIKE. LITERALLY. SO MUCH DEMAND.

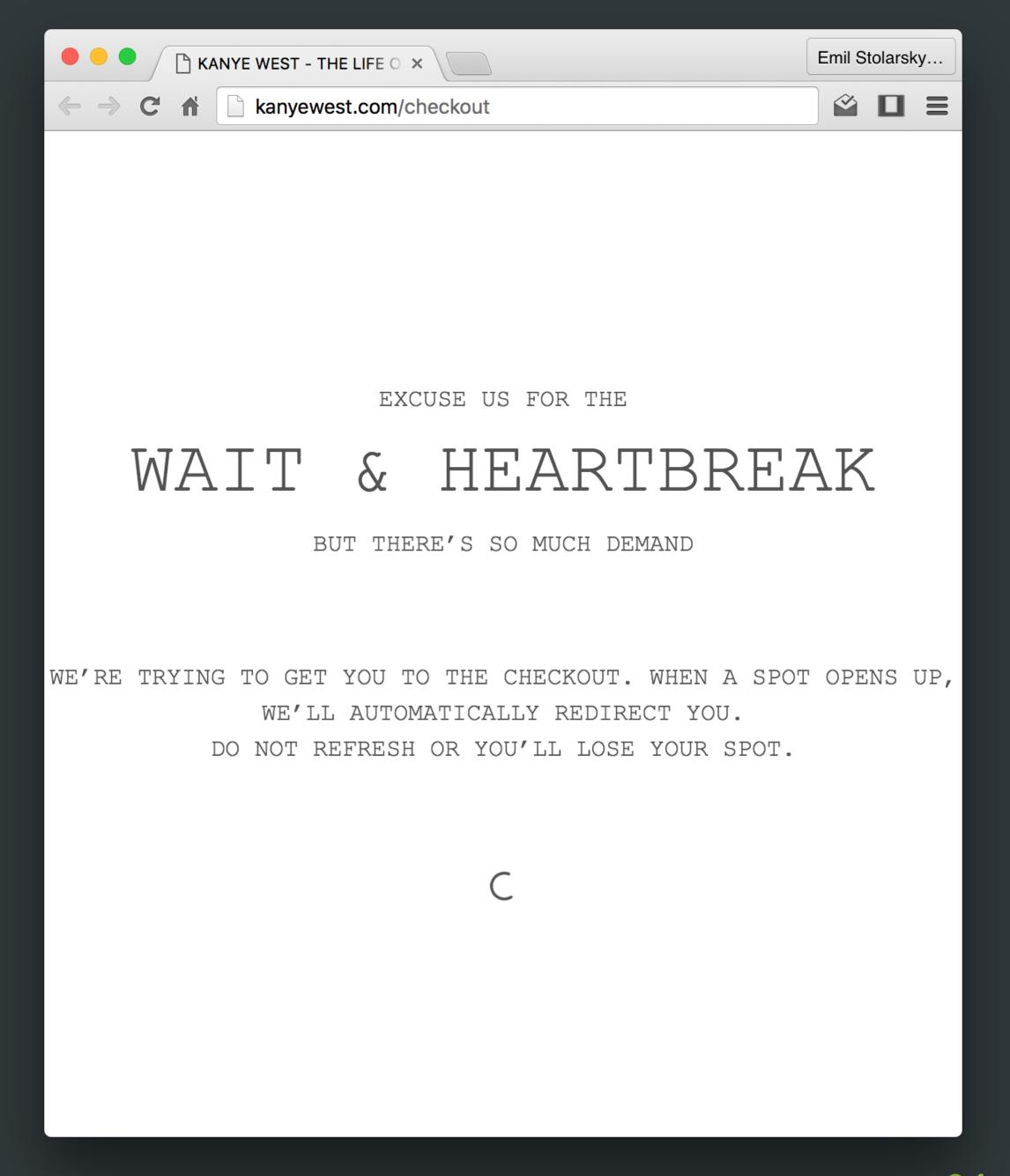
We are experiencing overwhelming demand for today's sale. Please hold tight and do not refresh this page or you will lose your spot.

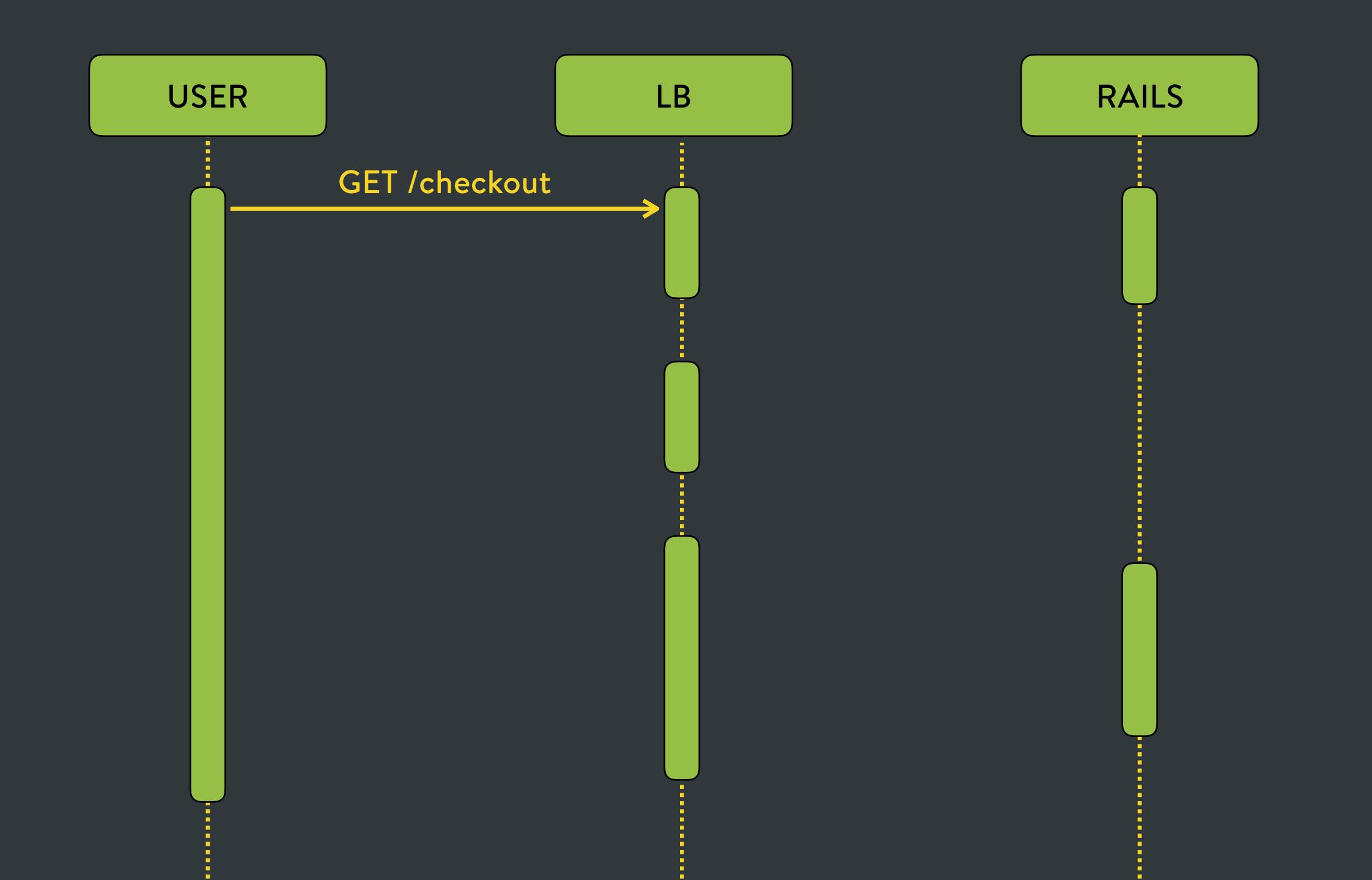
If a spot opens up before your product sells out, you will be sent to your shopping cart, however we can't guarantee you will get your products during today's sale. There are "literally" so many people trying to check out at the same time that we have created this holding zone so that the site won't crash. We can guarantee that we're making more and will be back as soon as we can with another sale.

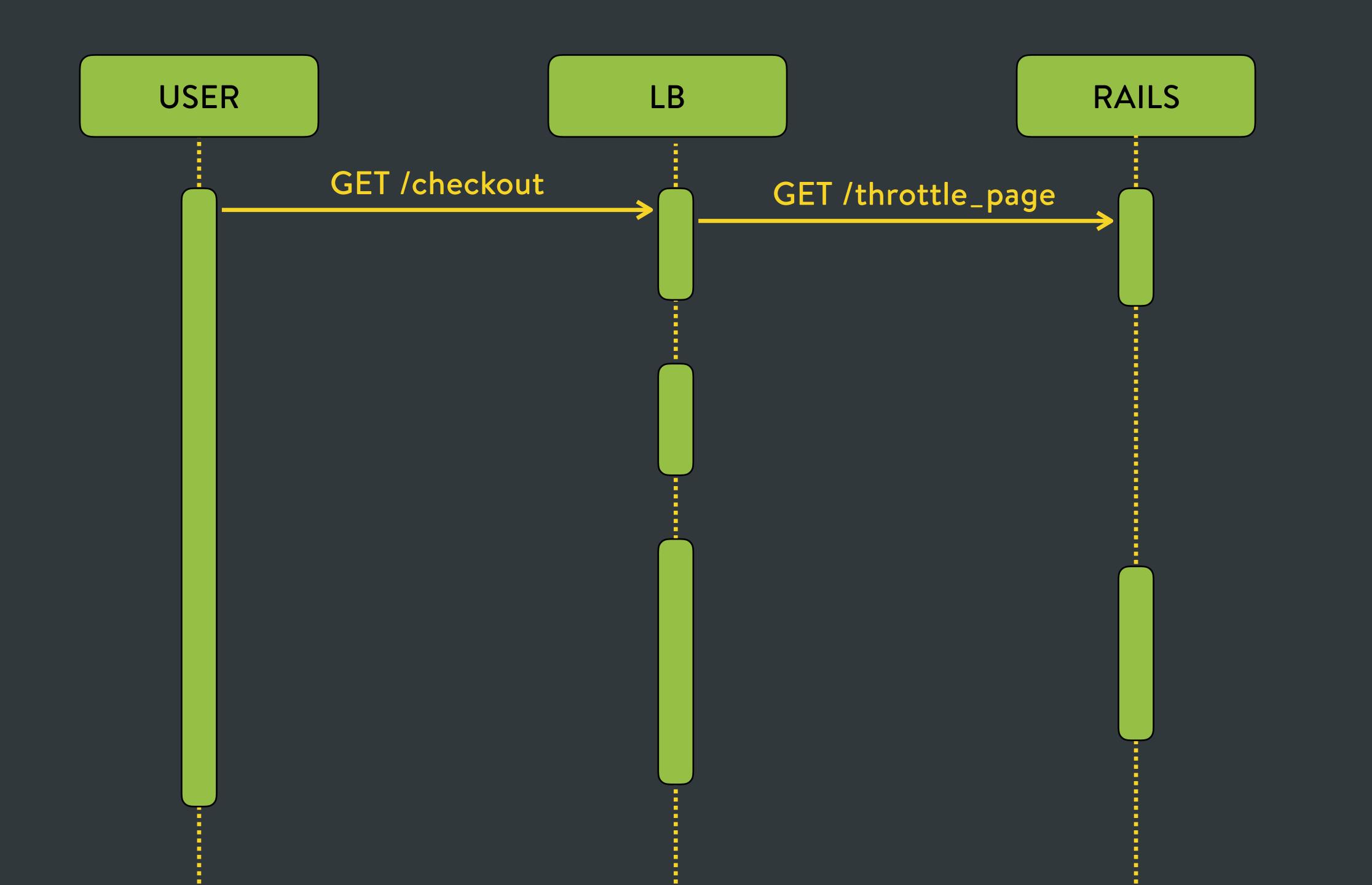
Thank you for your patience and support, and good luck!

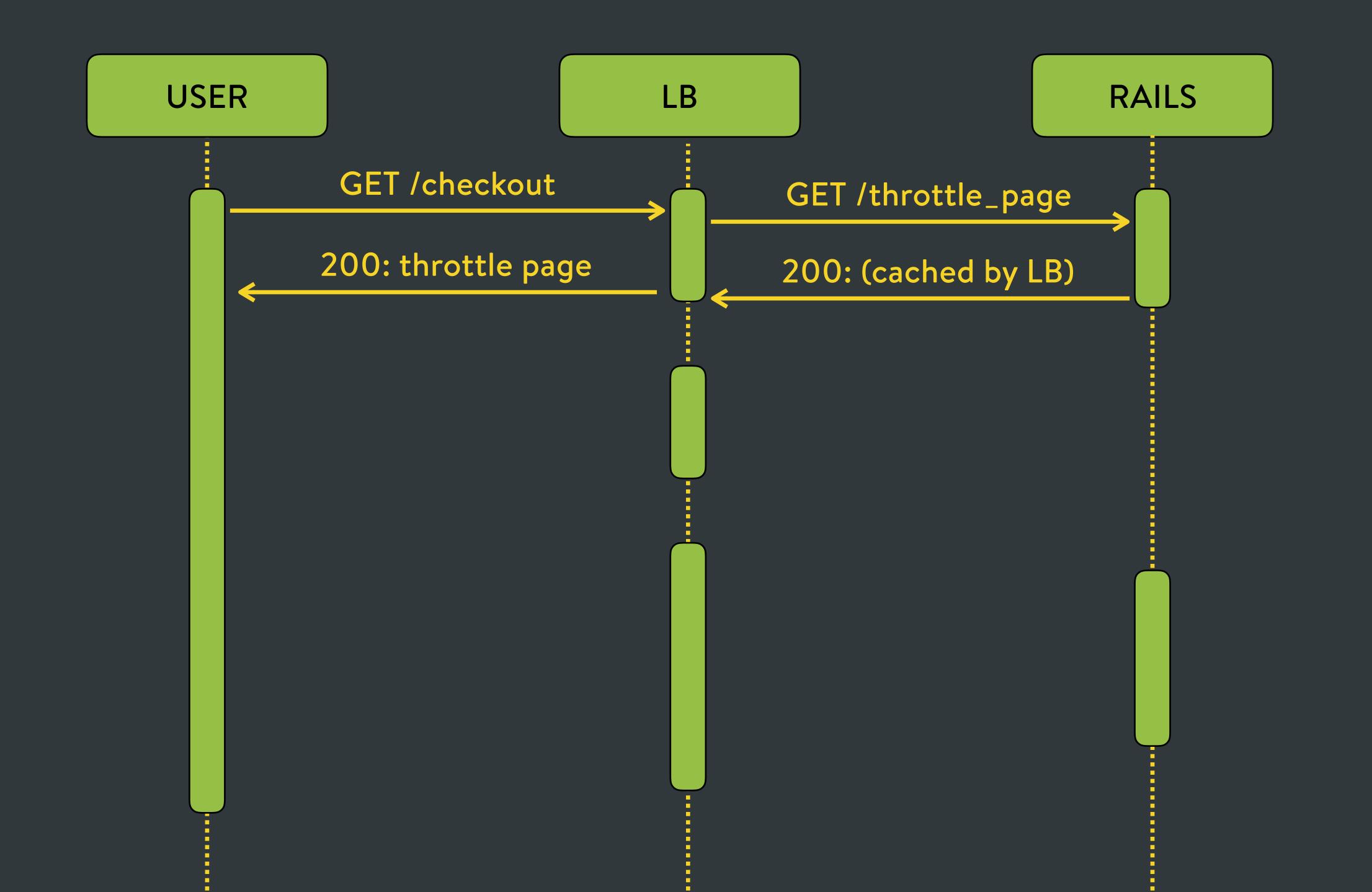


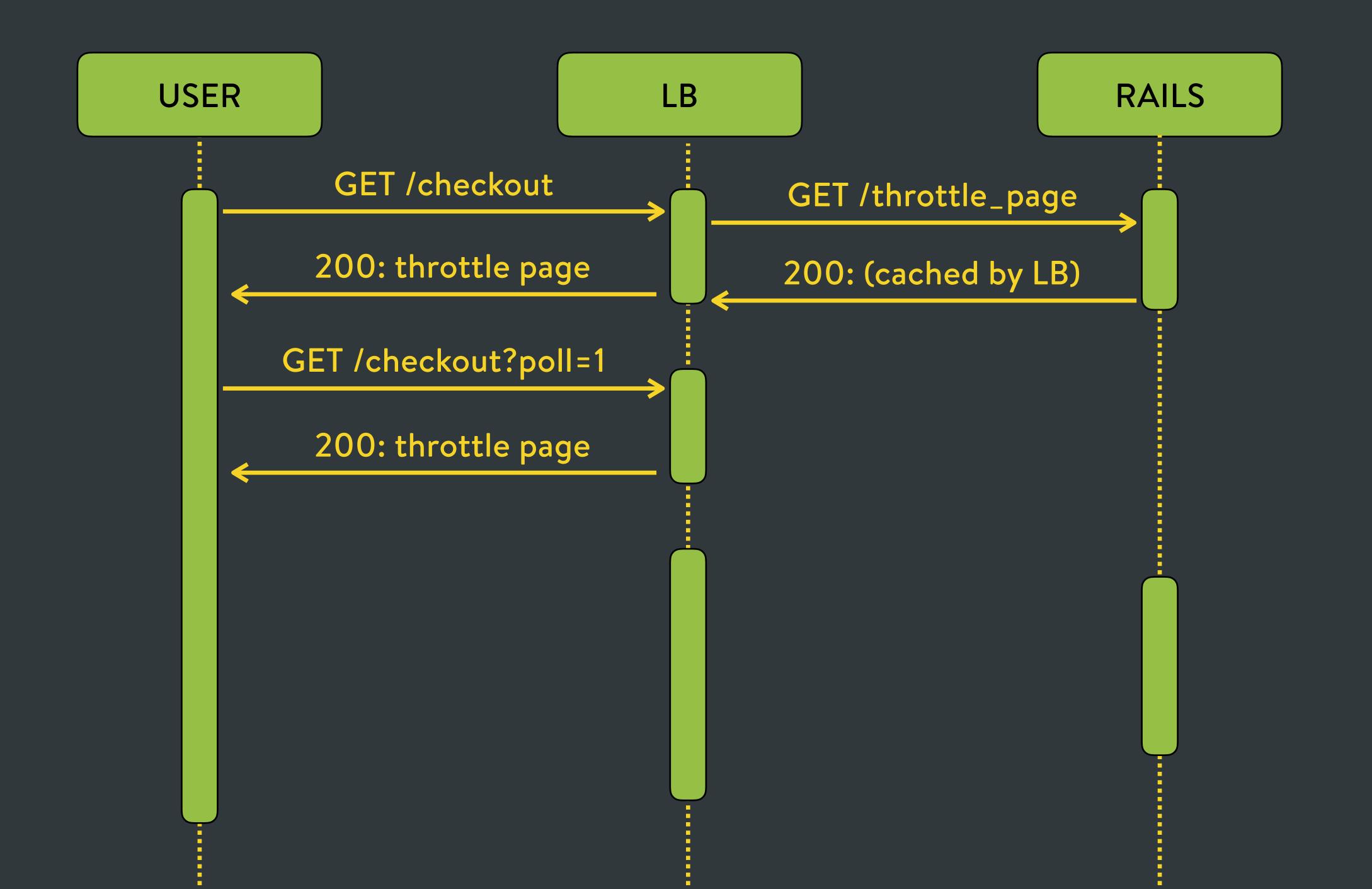


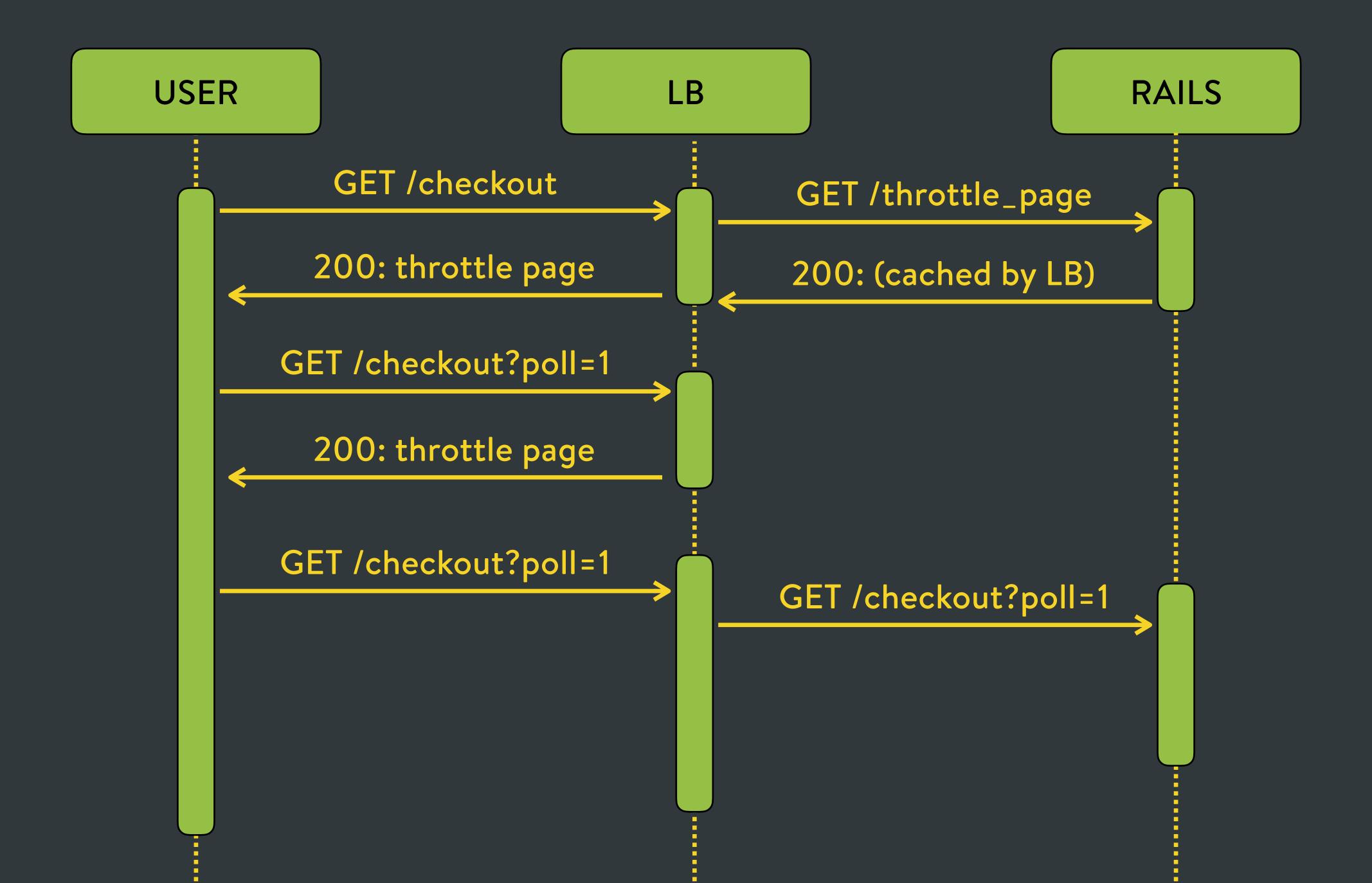


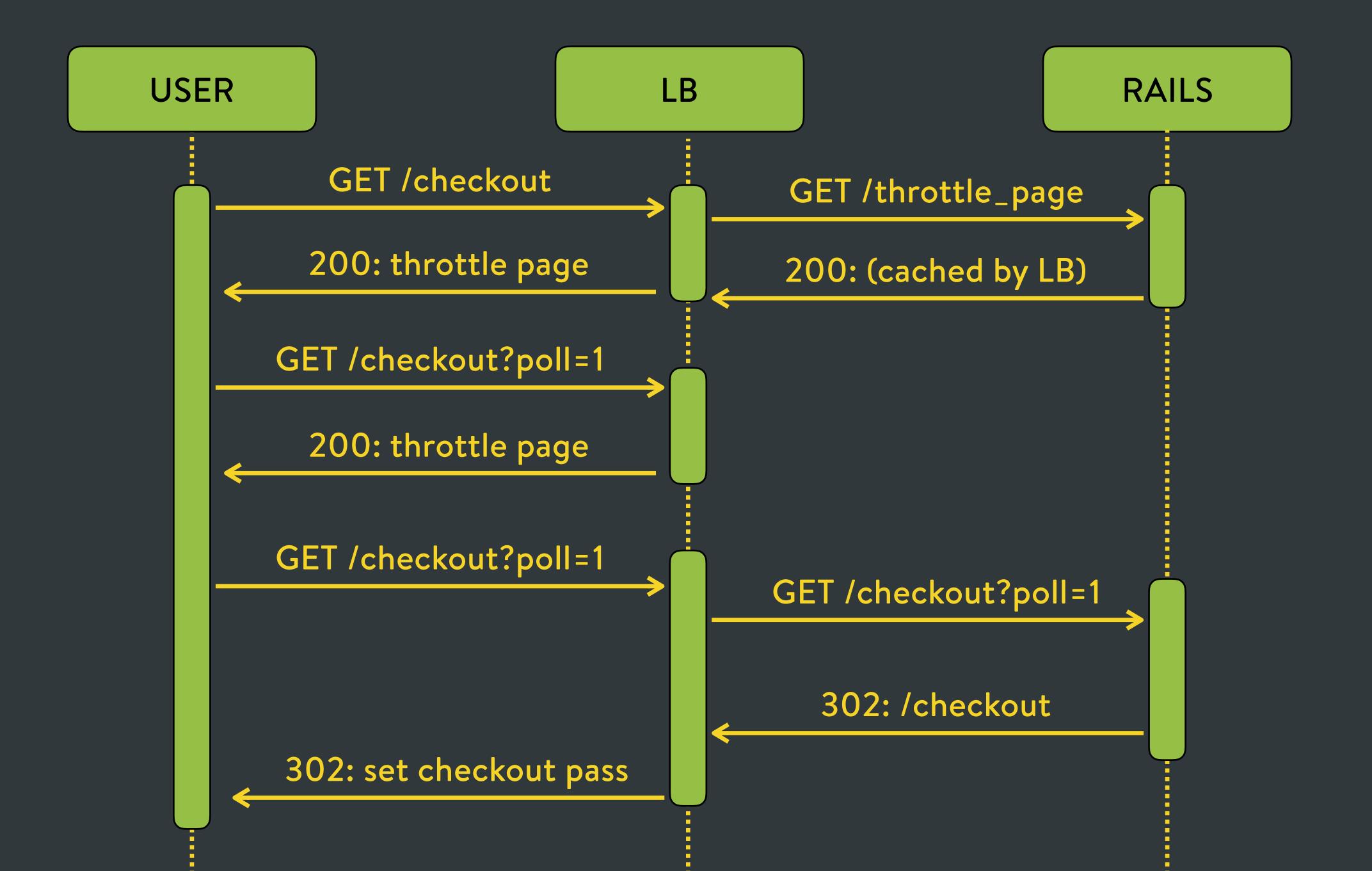












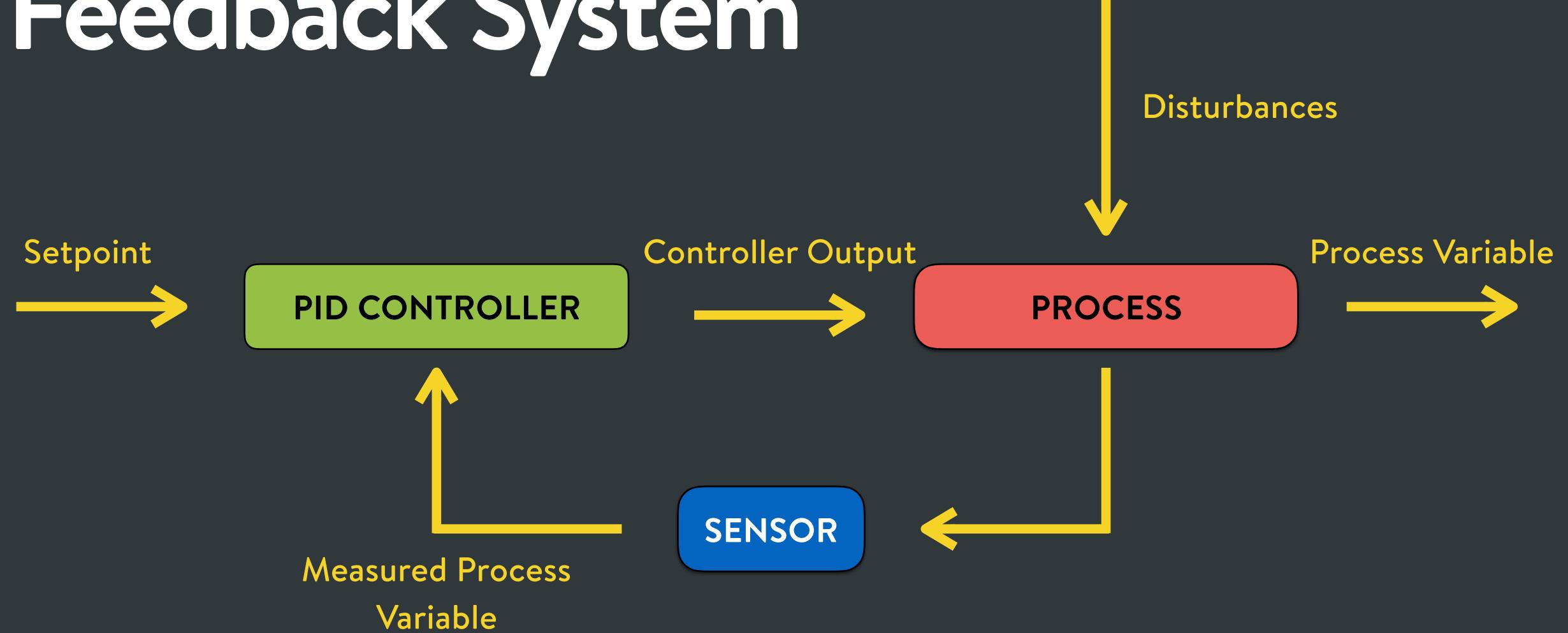
- 1. Right Tool
- 2. Heat Shield
- 3. Order out of Chaos





* - Almost Stateless

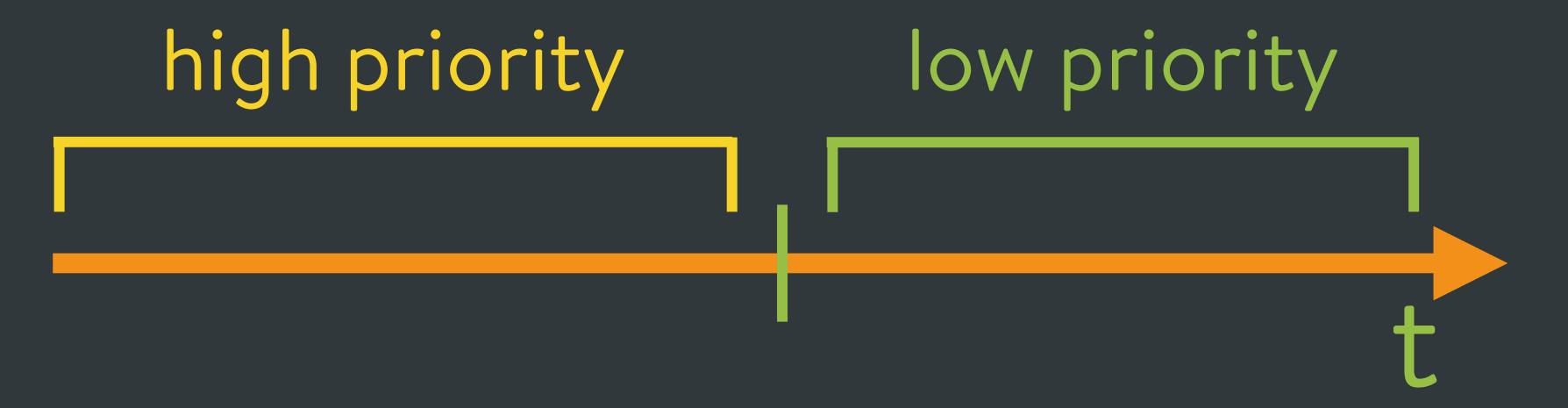
Feedback System





Timeline of timestamp in cookie

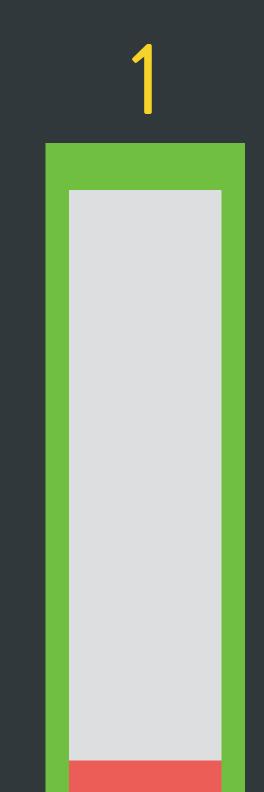


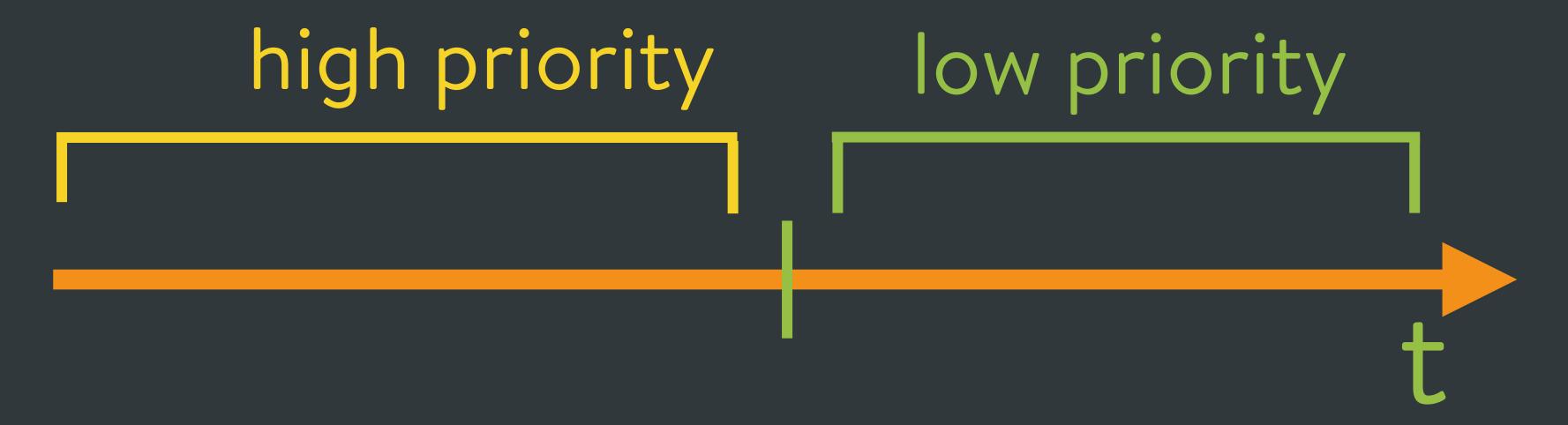


Bucket of high priority requests (max 16)



high priority





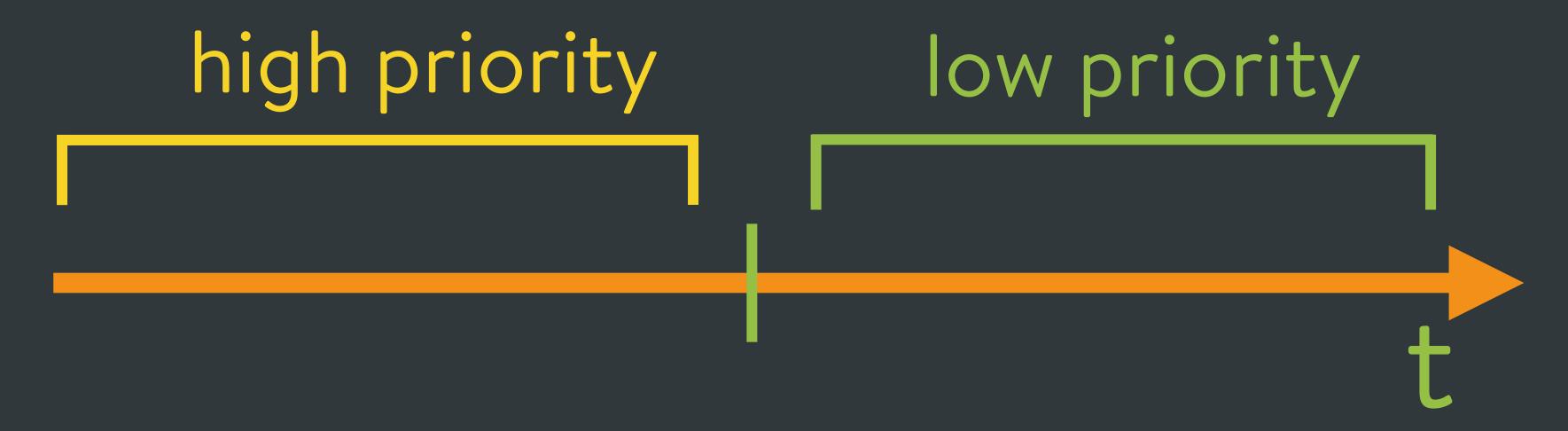
16

high priority low priority

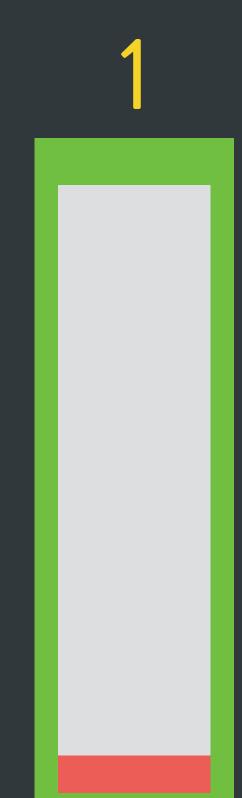
3

high priority low priority
t

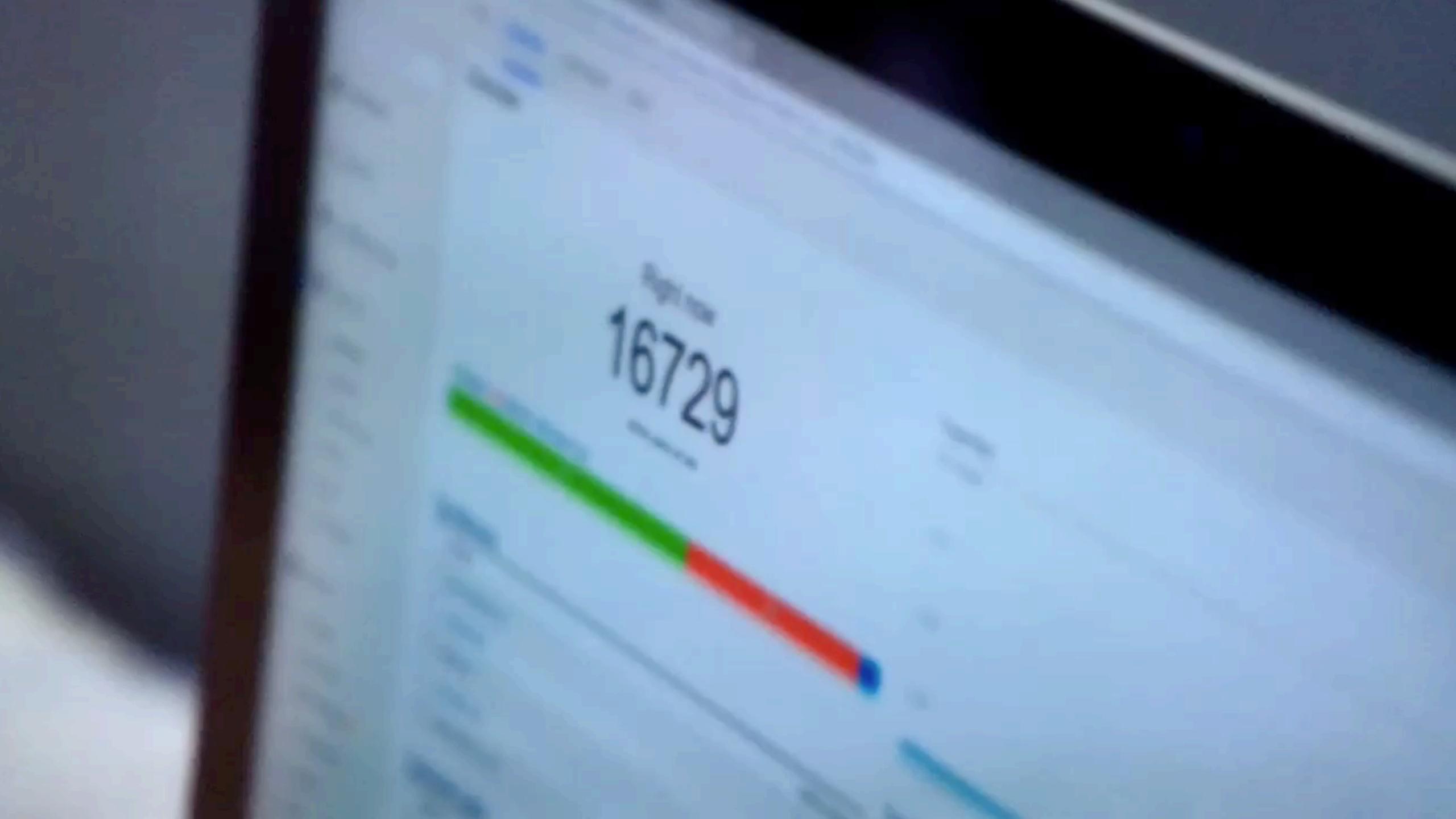
2



high priority



But... Why?



Reputation

Flash Sales Payments

Payments Gaming

Gaming Tweets

Sinx

Threttling Queueing

We're hiring!



Thanks.

Follow me on Twitter @EmilStolarsky

