

RESPONSIVE WEB DESIGN FROM THE FUTURE

pushState. replaceState. Hashbangs. AJAX. PJAX.
Beets. Bears. Battlestar Galactica.

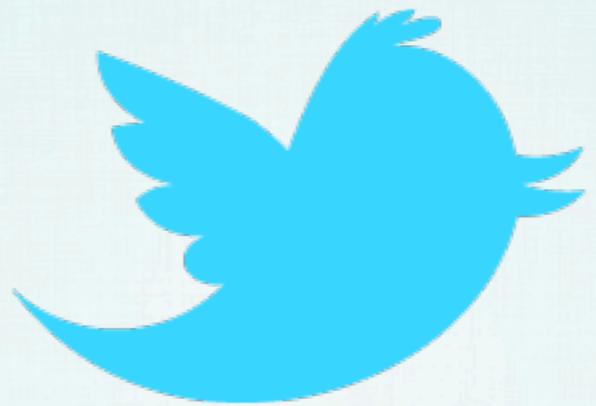
Kyle Neath is...

A large, semi-transparent GitHub logo watermark is centered in the background. It features a dark blue octocat icon with white outlines, overlaid with the word "github" in a white sans-serif font and "SOCIAL CODING" in a smaller, lighter gray sans-serif font.

~designer

@

github
SOCIAL CODING



@kneath



warpspire.com

Let's talk about
URL Design
Partial Page Updates

**The future of the
web is...**

HTML5 History API
+
Smart Partial Page Updates

**The future of the
web is...**

RESPONSIVE

**How do you define
responsive?**

“Responsive Web Design”

Resize the browser

**With an iPad / Playbook
(lol/jk)**

Feels Faster™

Fast pageloads

Animates naturally

Responds instantly

click touch zoom scroll swipe type resize

Browser Native

Keyboard Shortcuts

Back & Forward Buttons

URL Hacking

Technologies

@media queries

Modernizr

jquery.hotKeys

CSS3 Animations

HTML5 History API

XMLHttpRequest

mustache.js

~~@media queries~~

~~Modernizr~~

~~jquery.hotkeys~~

~~CSS3 Animations~~

HTML5 History API

XMLHttpRequest

mustache.js

HTML5 History API
XMLHttpRequest
mustache.js

**... and how GitHub is
stumbling through them**

My recent love affair
URL Design

URLs are sexy

Working with Terminal
made me love URLs

```
Terminal — bash — Solarized Dark ansi — 64x15
~ $ ls
Applications          Pictures
Desktop               Public
Documents              Sites
Downloads             bin
Dropbox                design
GitHub.sparsebundle   example.txt
Interface Tweaks      src
Library               tmp
Movies                 wat.psd
Music
~ $
```

```
Terminal — bash — Solarized Dark ansi — 64x7
~ $ ls | grep example
example.txt
~ $ ls | grep example | pbcopy
~ $
```

Terminal: | (pipe)

URLS : / (slash)

**Who needs directions if you
can skip to the destination?**

URLs are like transporters

**Everything should
have a URL**



Search



Home

Profile

Messages

Who To Follow



kneath

**godfoca** Nicolás Sanguinetti

Bummer. The title said to expect a talk on writing a compiler, and we get a talk on PEGs and Treetop :(#rubyconfindia

14 hours ago

**bleikamp** Ben Bleikamp

@brianmario EXAGGERATION. It's only 3:07am.



14 hours ago

**brianmario** Brian Lopez

there's a carnival being setup outside our apartment right now. at 3:30am, probably going all night :(



14 hours ago

**rtomayko** Ryan Tomayko

Whoever taught me how to make strawberry shortcake where you pour all of the milk on top: Thank you.



14 hours ago

**joedamato** Joe Damatocurrent status at HIGH VOLUME <http://www.youtube.com/watch?v=7JtZ06ZRezo>

15 hours ago

**luxuryluke** Luke Dorny

enough conversation. sleep.



15 hours ago

**ckj** Chris JenningsMove out day at Disqus flickr.com/photos/c-k-j/5...

15 hours ago

**bguthrie** Brian Guthrie

by

godfoca

"Don't design exclusively for ActiveResource." - @ponnappa and @niranjan_p #rubyconfindia



15 hours ago

**godfoca** Nicolás Sanguinetti

418 I'm a Teapot represent! #rubyconfindia



15 hours ago

Infinite scrolling is good

Losing your place in the scroll makes it bad

A URL is an agreement

**Can you see a future
with hashbangs?**

#!/defunct

FOREVER

```
// Redirect legacy anchor-based issue urls to real URLs.
var location_with_hash = location.pathname + location.hash
var matches = location_with_hash.match(#issue\/\/(\d+)(\/comment\/\/(\d+))?) )
if (matches) {
  var issue_number = matches[1]
  var comment_id   = matches[3]
  if (issue_number) {
    if (comment_id) {
      window.location = location_with_hash.replace(/\#issue\/\d+\/comment\/\d+/,
    } else {
      window.location = location_with_hash.replace(/\#issue\/\d+/, "/" + issue_
    }
  }
}
```

An <a> should
behave like an <a>

 + click

 + click

Middle click



Search



Home

Profile

Messages

Who To Follow



kneath



What's happening?

Timeline

@Mentions

Retweets

Searches

Lists

**jonesabi** Abi Jones

Your team kicks ass if you've: shared 5-years-away vision of product, observed real users for 2+ hrs in last 6 wks, celebrated major failure

1 minute ago

**jina** jina

The gloves are on. <http://instagr.am/p/E279h/>

1 minute ago

**rohdesign** Mike Rohde

Check out [@Tazinos](#) pizza, salad & desert buffet. Fresh food, nice price: \$8 adults \$5 kids on wknds \$7/\$4 weekdays (Pilgrim & Silver Spring)

3 minutes ago

**luxuryluke** Luke Dorny

Games People Play - Alan Parson's Project: the music my little niece is dancing to currently... #nowplaying #nowdancing

5 minutes ago

**cduruk** Can Duruk

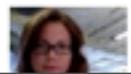
Current status: [@Spartan_moving](#) is 3.5 hours late and counting.

7 minutes ago

**_kamzilla** Kami Lott

Poopin

8 minutes ago

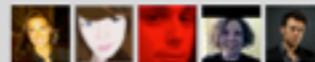
**jonesabi** Abi Jones

"Outsourcing your user research is like outsourcing your vacation."

Your Tweets 16,704

12 minutes ago: [@levifig](#) I own ByWord as well, but Writ...

Following 252



Followers 2,275

Who to follow · [refresh](#) · [view all](#)**FromYouFlowers** From You Flowers

Follow

Promoted

**sco** Scott Raymond

Followed by @bigfleet and others.

**shitmydadssays** Justin

Followed by @court3nay and others.

Trends · San Francisco · [change](#)

#StarPlayer

Promoted

#youshouldbeashamedif

Gil Scott-Heron

#iloveyoubecause

#youknowwhatsannoying

Justin & Beliebers

Televised

Prince Fielder

Grand Slam

Brandon Crawford

Twitter-for-iPhone

n. the official Twitter app for iPhone.



Search



Home

Profile

Messages

Who To Follow



kneath

close X

What's happening?

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1 minute ago

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2 minutes ago

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4 minutes ago

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6 minutes ago

**cduruk** Can Duruk

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8 minutes ago

**_kamzilla** Kami Lott

Poopin

8 minutes ago

**jonesabi** Abi Jones

"Outsourcing your user research is like outsourcing your vacation."

**jina**[@jina](#) view full profile →

San Francisco, CA

Curate life™ <http://about.me/jina>

12,859

300

7,144

971

Tweets

Following

Followers

Listed

 Following

Recent Tweets

**jina** jina

The gloves are on. <http://instagr.am/p/E279h/>

2 minutes ago

**jina** jina

Tonight's theme: ruffles, sequins, damask, eyeshadow, champagne. Oh, and funfunfunfun.

2 hours ago

**jina** jina

I've made a lot of awesome friends in the last couple weeks and I'm really happy about this.

2 hours ago

More Tweets from @jina →

Be responsive!

Browsers have
windows & tabs

e.which == 1

&&

! e.metaKey

&&

! e.shiftKey

Making people say
Feels Faster™

**Welcome to the
AJAX Generation**

Gmail – Inbox – kneath@gmail.com

Gmail Calendar Documents Photos Reader Web more ▾ kneath@gmail.com ▾

Gmail by Google

Search Mail Search the Web Show search options Create a filter

Mail Contacts Tasks

Compose mail

Inbox

Starred ★ Important □ Sent Mail Drafts (1) All Mail ask (6) Dreamhost Notes swn (6) Warpspire (9) 15 more▼

Chat

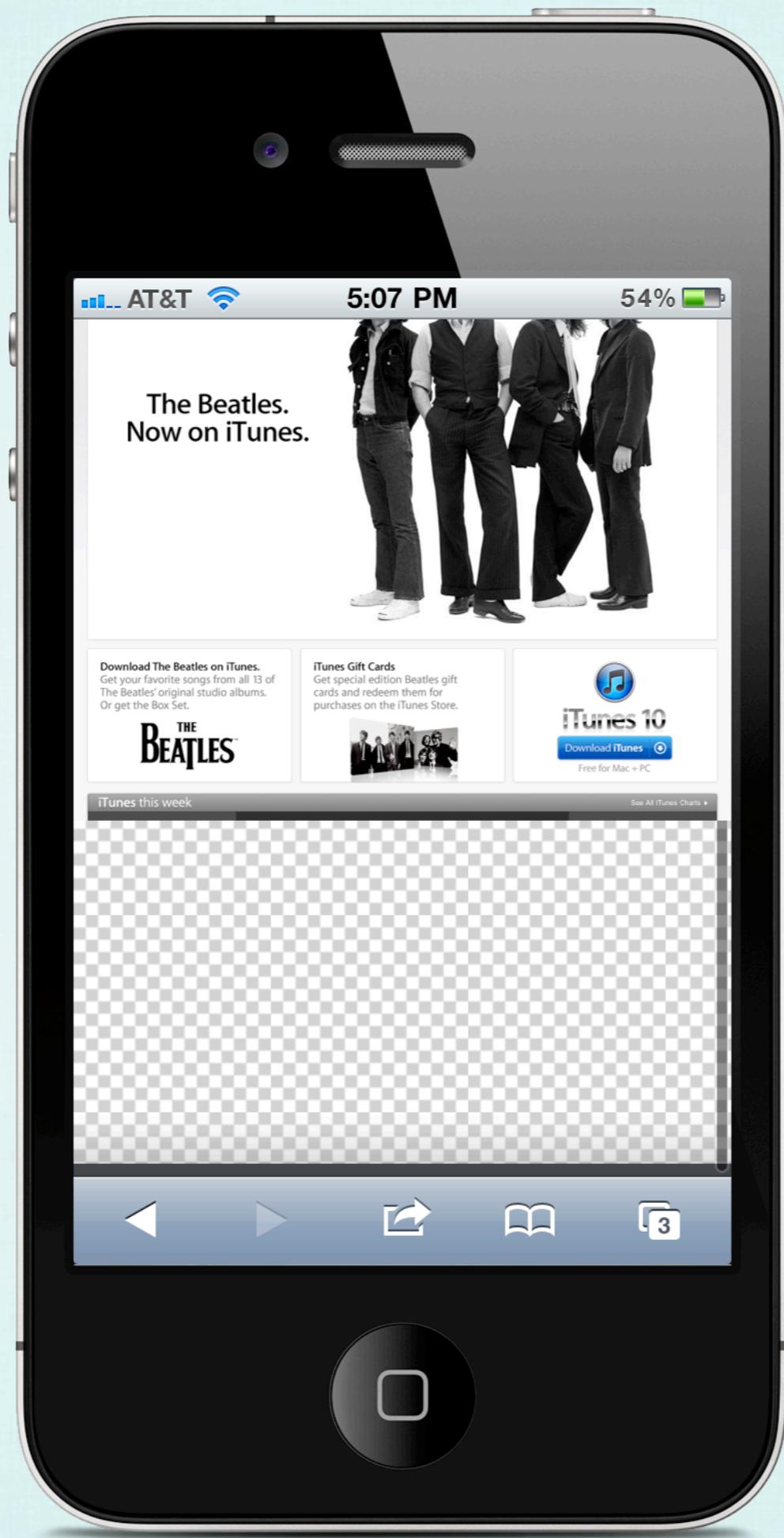
Search, add, or invite

Kyle Neath [Sign into chat](#)
Call phone adelcambre@gmail.com Bobmortland Briana Kerns Cherif Habib Cody Sickler groovemonkey

Archive Report spam Delete Move to ▾ Labels ▾ More actions ▾ Refresh 1 - 50 of 125 [Older >](#) [Oldest »](#)

<input type="checkbox"/> ★ Stephan Kuntz	D ask Vimeo Question - Hi, just found your theme. Id like to use v	3:04 am
<input type="checkbox"/> ★ Season Pass	D Only 5 Days Left Guaranteed Lowest Price and Spring Benefits!	May 26
<input type="checkbox"/> ★ Tammer, me (2)	oh no my money! - Bummer man :/ Such is life... – Kyle Neath ht	May 24
<input type="checkbox"/> ★ Kevin Clark	Campfire - Got it. Incremental indexing seems to be working well :	May 24
<input type="checkbox"/> ★ Paul, me (2)	D Fwd: [YC W10] Mandatory Drinks 5/27 - Jazzychad's Bday :) - Dc	May 24
<input type="checkbox"/> ★ Google Voice	D New voicemail from (916) 709-3719 at 10:59 AM - Voicemail from	May 21
<input type="checkbox"/> ★ service@paypal.com	Subscription Payment Failed - Hello Kyle Neath, The payment for	May 20
<input type="checkbox"/> ★ Manpacks	D 1 More Thing: The Sample Grabbing Click-fest - Good—LOTS of :	May 19
<input type="checkbox"/> ★ Clark Valberg	D InVision: The UX Game Is About To Change... - InVision lets you	May 19
<input type="checkbox"/> ★ Deb Thompson	Hi Kyle, I came across your information on Linkedin - Hi, Your ba	May 17
<input type="checkbox"/> ★ DISPATCH	DISPATCH EP - having trouble seeing this email? click here you	May 17
<input type="checkbox"/> ★ Flipperty Carrington	Video from Carrington - Hello Flipperty, You created a video mess	May 13
<input type="checkbox"/> ★ Clark Valberg	BETA Access Granted: InVision - UX Prototyping Made Beautiful	May 13
<input type="checkbox"/> ★ Scott .. Joshua, Jason (13)	Mark's Bachelor Party - Hey Guys, We went ahead and made res	May 13
<input type="checkbox"/> ★ David	D ask URL Design - I loved the thorough overview post you made	May 12
<input type="checkbox"/> ★ Ashley, me (3)	Ruby on Rails - Thanks Kyle, I think that's what it is. All the relati	May 12
<input type="checkbox"/> ★ Bryan Jowers	Director of UX & Product - Hey Kyle, Reaching out to you becaus	May 11
<input type="checkbox"/> ★ Ugmonk Newsletter	New Minimal Series & 20% Off - Email not displaying correctly in	May 10
<input type="checkbox"/> ★ bettermarketstreet	Upcoming Better Market Street Workshops and Webinars - City o	May 10
<input type="checkbox"/> ★ Forrst	What's new on Forrst, May 2011 Edition - Hey kneath, I just want	May 10
<input type="checkbox"/> ★ Heroku News	Heroku Newsletter May 2011 - Heroku May 2011 IN THIS ISSU	May 9
<input type="checkbox"/> ★ Pete Caruso	D ask DESIGN DILEMMAS - Mr. Kneath, Sorry to drop this long t	May 9
<input type="checkbox"/> ★ Pavlovic, Peter M	D ask Quick question about Hemingway template... - Hi, Have jus	May 9

Welcome to the
~~AJAX Generation~~
iPhone Generation



Fast is about perception

😊 defunkt / resque

[Watch](#)[Fork](#)[2,240](#)[261](#)**Source**[Commits](#)[Network](#)[Pull Requests \(1\)](#)[Issues \(18\)](#)[Wiki \(8\)](#)[Graphs](#)

Branch: master

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Resque is a Redis-backed Ruby library for creating background jobs, placing those jobs on multiple queues, and processing them later.

<http://github.com/blog/542-introducing-resque>[Downloads](#)[HTTP](#)[Git Read-Only](#)<https://github.com/defunkt/resque.git> [Read-Only access](#)**1.17.1****defunkt** (author)

about 6 hours ago

commit [e2d5804022366f18366d](#)
tree [4c6c166ed2f0cd3d07da](#)
parent [8401f8ebe39583142edd](#)

resque /

name	age	message	history
bin/	February 03, 2011	Accept namespaces in `resque` command [paulrosania]	
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Gemfile	1 day ago	Add rake the Gemfile's test group. [dpiddy]	

😊 defunkt / resque

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defunkt / resque[Watch](#)[Fork](#)[2,240](#)[261](#)**Source**

Commits

Network

Pull Requests (1)

Issues (18)

Wiki (8)

Graphs

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1.17.1



defunkt (author)

about 6 hours ago

**commit** e2d5804022366f18366d
tree 4c6c166ed2f0cd3d07da
parent 8401f8ebe39583142edd**resque /**

1 billion SQL Queries
2 billion Memcache calls
3 billion Git calls

name	message	history
bin/	February 03, 2011	Accept namespaces in `resque` command [paulrosania]
docs/	August 23, 2010	Add `:args` for after_enqueue hook [darkhelmet]
examples/	about 6 hours ago	minimize memory usage by using bin/ to run a single server [defunkt]
lib/	about 6 hours ago	1.17.1 [defunkt]
test/	May 16, 2011	Hoptoad backend has been optional - don't use it [defunkt]
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 defunkt / resque[Watch](#)[Fork](#)[2,240](#)[261](#)**Source**[Commits](#)[Network](#)[Pull Requests \(1\)](#)[Issues \(18\)](#)[Wiki \(8\)](#)[Graphs](#)

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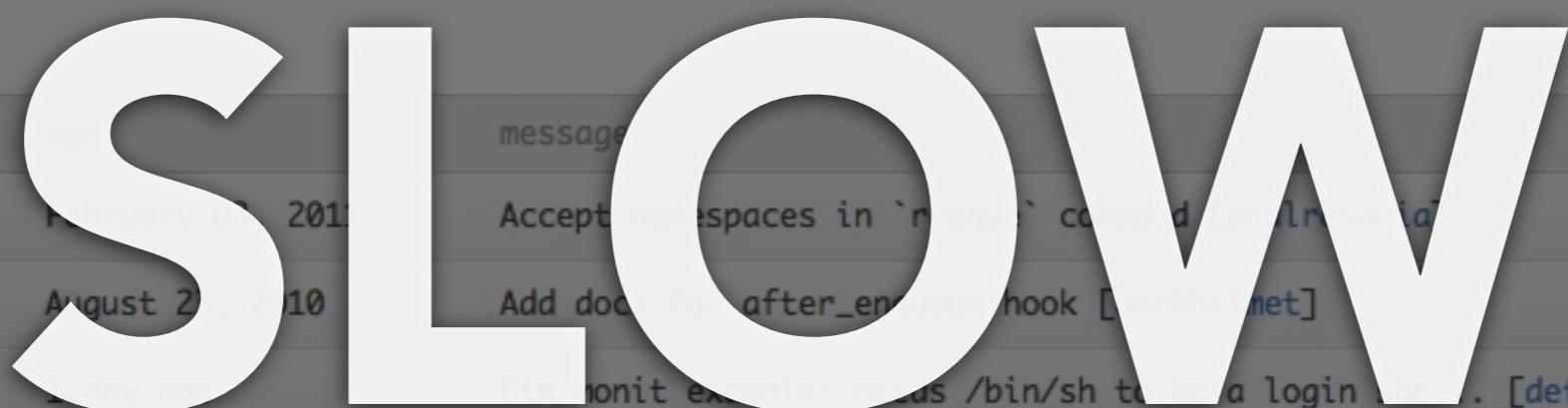
1.17.1



defunkt (author)

about 6 hours ago

commit e2d5804022366f18366d
tree 4c6c166ed2f0cd3d07da
parent 8401f8ebe39583142edd

[resque /](#)

SLOW

name

[bin/](#)[docs/](#)[examples/](#)[lib/](#)[test/](#)[.gitignore](#)[.kick](#)[Gemfile](#)

name

bin/

docs/

examples/

lib/

test/

.gitignore

.kick

Gemfile

message

Accept

Add doc

monit ex

about 6 hours ago

May 16, 2011

November 02, 2009

1 day ago

1.17.1 [defunkt]

Hoptoad backend has always been optional - don't r... [defunkt]

added Gemfile.lock to gitignore [morgoth]

rake kick [defunkt]

Add rake the Gemfile's test group. [dpiddy]

history

defunkt / resque

Watch

Fork

2,240

261

Why are we focusing up here?

Resque is a Redis-backed Ruby library for creating background jobs, placing those jobs on multiple queues, and processing them later.

<http://github.com/blog/542-introducing-resque>

Downloads

This is the part that changes

1.17.1		commit e2d5e22366f18366d
defunkt (author)	about 6 hours ago	tree 4c6c166ed2f0cd3d07da
parent	8401f8ebe39583142edd	

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Caching!

...is really difficult

AJAX!

Ajax!

loaders are not responsive

Ajax!

loaders are not responsive

😊 defunkt / resque

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😊 defunkt / resque

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😊 defunkt / resque

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**Only use loaders when
requests are slow**

~500ms

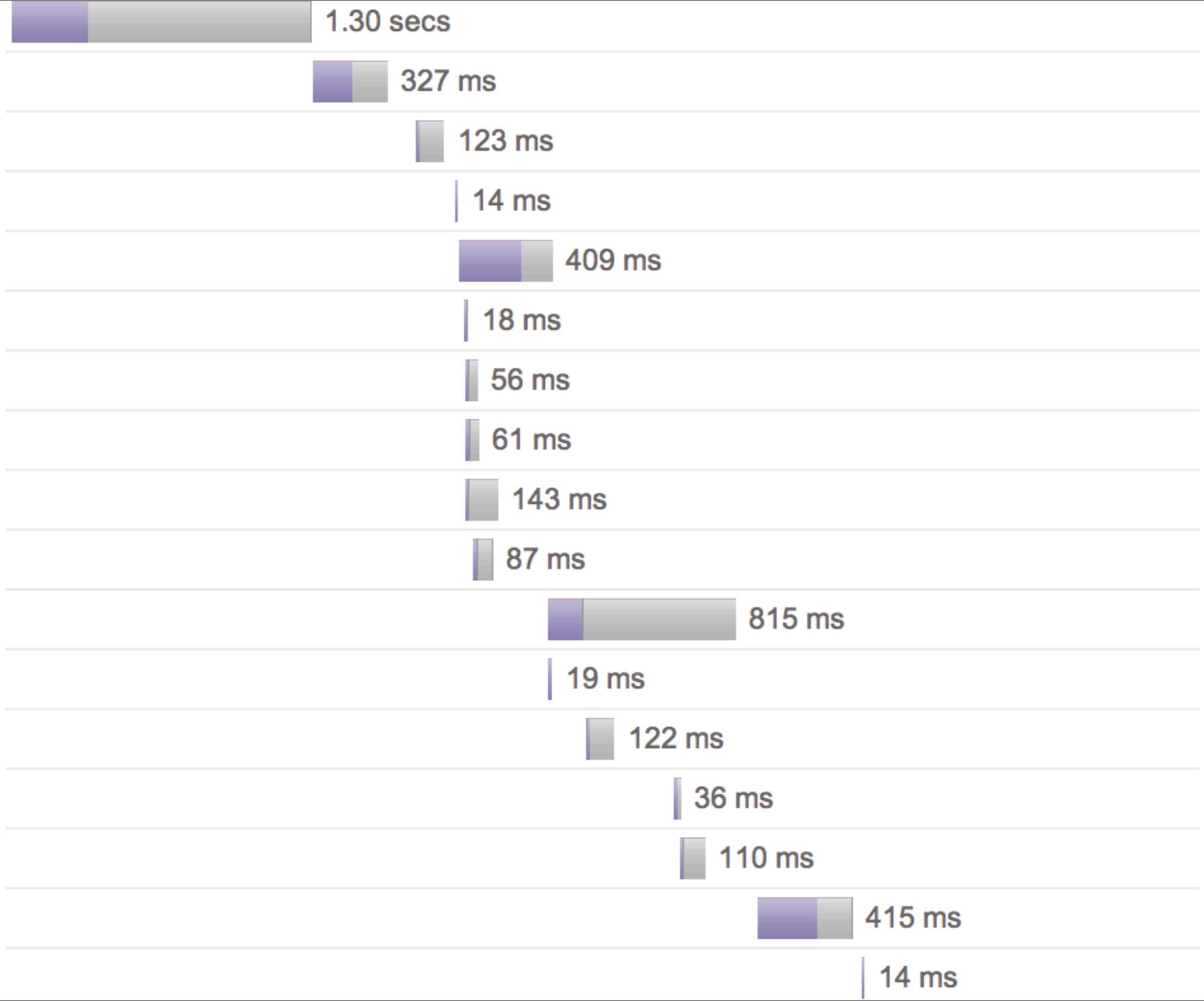
**Cache content for
zero-request updates**

Think about the back button

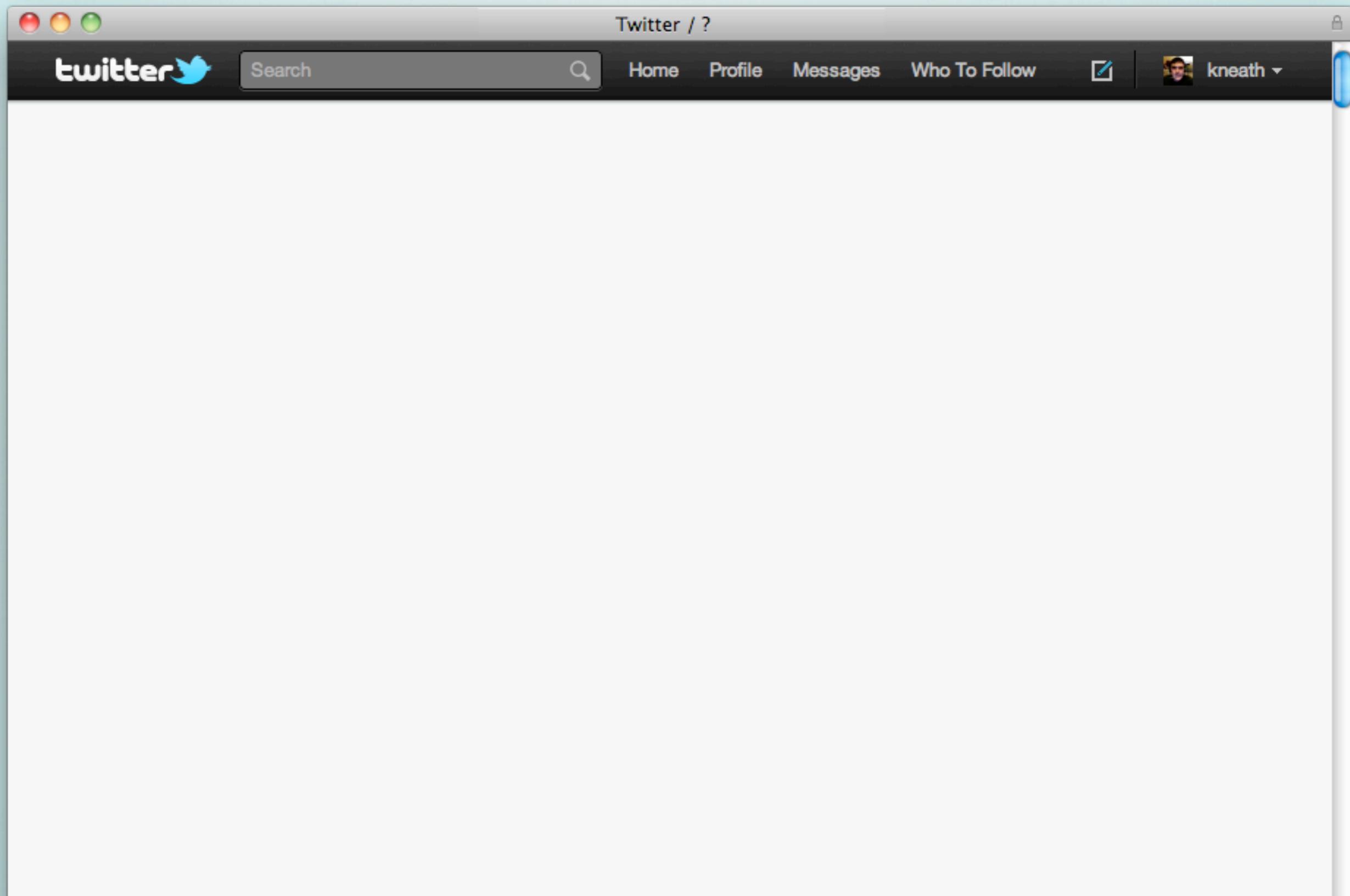
**There will always be
full page loads**

If you want fast...

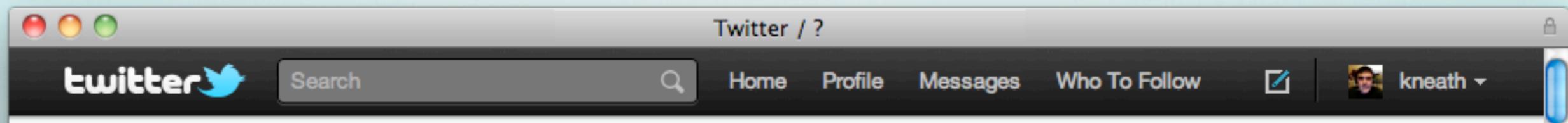
**Serve all HTML (or JSON)
in one request**



Twitter: HTML + CSS + JS



Twitter: HTML + CSS + JS



API Driven

Apply Science

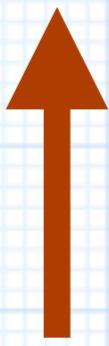
<https://twitter.com/#!/kneath>

4.7 sec

total load time

4.3 sec

timeline load



Time to usable!

Apply Science

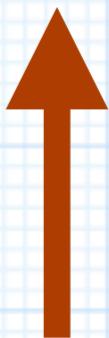
<https://github.com/kneath>

3.4 sec

total load time

1.1 sec

HTML/CSS/JS loaded



Time to usable!

Why is Twitter's so slow?

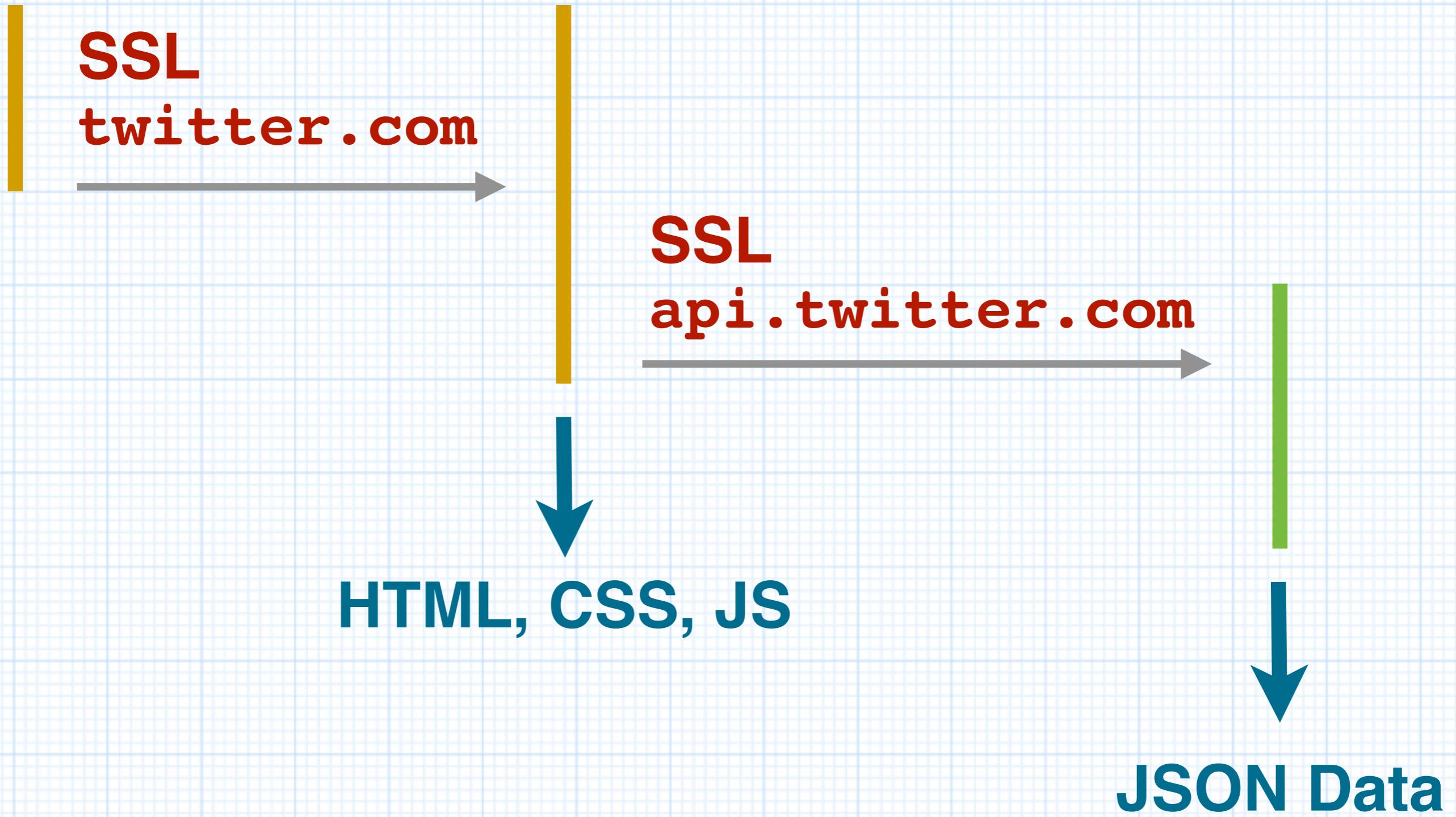
ssl

**Each domain is a new
SSL Handshake**

twitter.com

api.twitter.com

Handshakes and Waterfalls



SSL Negotiation is our bottleneck

40ms backend response time
500ms blocking SSL Negotiation

**Always favor science
over theory**

Be Responsive

Client-Side Cache



AJAX/JSON Request



Full Page

😊 defunkt / resque

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Branch: master

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Resque is a Redis-backed Ruby library for creating background jobs, placing those jobs on multiple queues, and processing them later.

<http://github.com/blog/542-introducing-resque>[Downloads](#)[HTTP](#)[Git Read-Only](#)<https://github.com/defunkt/resque.git>[!\[\]\(d1b696c4007fb8f791b492854012b410_img.jpg\) Read-Only access](#)**1.17.1****defunkt** (author)

about 6 hours ago

commit [e2d5804022366f18366d](#)
tree [4c6c166ed2f0cd3d07da](#)
parent [8401f8ebe39583142edd](#)

resque /

name	age	message	history
bin/	February 03, 2011	Accept namespaces in `resque` command [paulrosania]	
docs/	August 23, 2010	Add docs for after_enqueue hook [darkhelmet]	
examples/	1 day ago	Fix monit example: needs /bin/sh to be a login she... [defunkt]	
lib/	about 6 hours ago	1.17.1 [defunkt]	
test/	May 16, 2011	Hoptoad backend has always been optional - don't r... [defunkt]	
.gitignore	May 16, 2011	added Gemfile.lock to gitignore [morgoth]	
.kick	November 02, 2009	rake kick [defunkt]	
Gemfile	1 day ago	Add rake the Gemfile's test group. [dpiddy]	

😊 defunkt / resque

[Watch](#)[Fork](#)[2,240](#)[261](#)**Source**[Commits](#)[Network](#)[Pull Requests \(1\)](#)[Issues \(18\)](#)[Wiki \(8\)](#)[Graphs](#)

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resque /

name	age	message	history
..			
resque	February 03, 2011	Accept namespaces in `resque` command [paulrosania]	
resque-web	March 03, 2010	Feature: specify a Redis namespace via command ... [rmoriz]	

So if we want partial page updates sometimes, full page updates other times...

**Server or client side
template rendering?**

Both!

Use the same templates
mustache.rb mustache.js

Render HTML in AJAX/JSON
partials are your friend

But...

With SSL negotiation,
server time is ~free

One is simpler than two

URL Design



Feels Faster™

 defunkt / resque[Watch](#)[Fork](#)[2,242](#)[263](#)**Source**[Commits](#)[Network](#)[Pull Requests \(1\)](#)[Issues \(18\)](#)[Wiki \(8\)](#)[Graphs](#)

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<http://github.com/blog/542-introducing-resque>[Downloads](#)**HTTP****Git Read-Only**<https://github.com/defunkt/resque.git>**Read-Only access**

Even better screenshot in README



defunkt (author)

about 22 hours ago

commit 157926e913712300027d

tree 4ee9d7c35835da1bbbec

parent 167e6fdb171d21d02ba1

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HISTORY.md	1 day ago	1.17.1 [defunkt]	

defunkt/resque – GitHub

1P https://github.com/defunkt/resque RSS Google

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defunkt / resque

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Source Commits Network Pull Requests (1) Issues (18) Wiki (8) Graphs Branch: master

Switch Branches (4) Switch Tags (50) Branch List

Resque is a Redis-backed Ruby library for creating background jobs, placing those jobs on multiple queues, and processing them later. — [Read more](#)

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HTTP Git Read-Only https://github.com/defunkt/resque.git Read-Only access

Even better screenshot in README

defunkt (author)
about 22 hours ago

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HISTORY.md	1 day ago	1.17.1 [defunkt]	
LICENSE	February 04, 2011	time is an illusion [defunkt]	
README.markdown	about 22 hours ago	Even better screenshot in README [defunkt]	

**HTML5 History API
makes me all tingly**

pushState

URL Change + back button stack

replaceState

URL Change only

**Partial page updates
with real URLs!**

**We can design for the
back button!**

Browser Support?



Yes



5.0



4.0

Browser Support?

85%

<https://github.com>

Downsides of using the History API?

Hint: there aren't many

history.js

[balupton/history.js](https://github.com/balupton/history.js)



If you use hashbangs...

Javascript redirects

two requests instead of one

Confusing code paths

some routing in server, some in js?

Cost of History API

Some users get a
slower experience

But isn't Chrome already faster than IE7?

Cost of Hashbangs

Poison your URL structure

Committing to nasty JS
redirects FOREVER

Manual anchor Javascript

This stuff is opening up

Futuristic design

State?

We can do that

?milestone=3&sort=created&direction=desc&state=open

Issues – rails/rails – GitHub

https://github.com/rails/rails/issues?milestone=3&sort=created&_pjax=true GitHub, Inc. RSS Google

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rails / rails

Watch Fork 8,800 1,675

Source Commits Network Pull Requests (57) Issues (117) Graphs Branch: master

Browse Issues Milestones Search: Issues & Milestones... New Issue

Everyone's Issues 6

Milestone: Rails 3.2 6 open issues

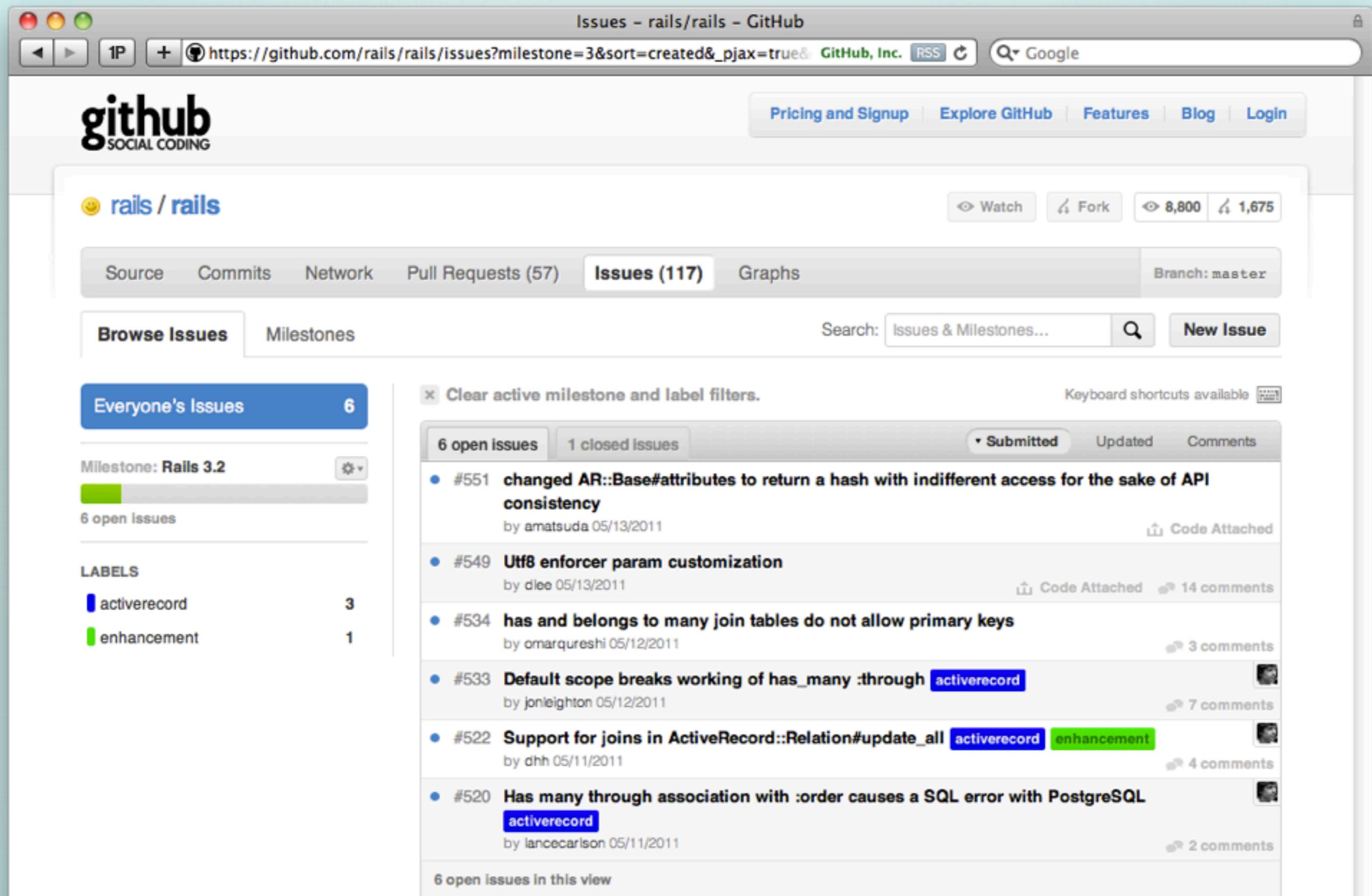
LABELS activerecord 3 enhancement 1

Clear active milestone and label filters. Keyboard shortcuts available

6 open issues 1 closed issues Submitted Updated Comments

- #551 changed AR::Base#attributes to return a hash with indifferent access for the sake of API consistency by amatsuda 05/13/2011 Code Attached
- #549 Utf8 enforcer param customization by dlee 05/13/2011 Code Attached 14 comments
- #534 has and belongs to many join tables do not allow primary keys by omarqureshi 05/12/2011 3 comments
- #533 Default scope breaks working of has_many :through activerecord by jonleighton 05/12/2011 7 comments
- #522 Support for joins in ActiveRecord::Relation#update_all activerecord enhancement by dhh 05/11/2011 4 comments
- #520 Has many through association with :order causes a SQL error with PostgreSQL activerecord by lancecarlson 05/11/2011 2 comments

6 open issues in this view



Save URLs in database

replaceState on load

but only if there aren't any params already

Maintain state across
pageviews

Copy & paste URLs
over IM / chat

Infinite Scroll?

We can do that
(correctly)

Lots of websites are using infinite scroll

Facebook

Tumblr

Twitter

And they're all broken

**Infinite scroll is only
better than pages if you
can restore your position**

<http://warpspire.com/experiments/history-api>

History API — Warpspire Experiments

warpspire experiments In relation to **Responsive web design from the future**

i Overview Explanation See the Code

Infinite Scroll + HTML5 History API

This example shows the power of the History API when combined with infinite scroll. Fluid user experience and hard linking all in one. Scroll down, click a link & press the back button, refresh the page — it all just works.



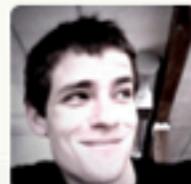
@holman Zach Holman
@moonpolysoft i'm not really hungry right now though
about 15 hours ago



@holman Zach Holman
@Karmic_Mishap good god that made me laugh
about 16 hours ago



@holman Zach Holman
This hooker isn't accepting bitcoins. Now what do I do.
about 16 hours ago



@holman Zach Holman
@timhaines my toilet is sequestered in a tiny room away from the sink and shower. so YES
about 23 hours ago



@holman Zach Holman
@allison_house NEIGHBOR

Good URL Design + History API
makes for...

Happy Unix Enthusiasts

Happy Grandmas

Happy Developers

warpspire.com/talks/responsive