

# **RESPONSIVE WEB DESIGN FROM THE FUTURE**

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

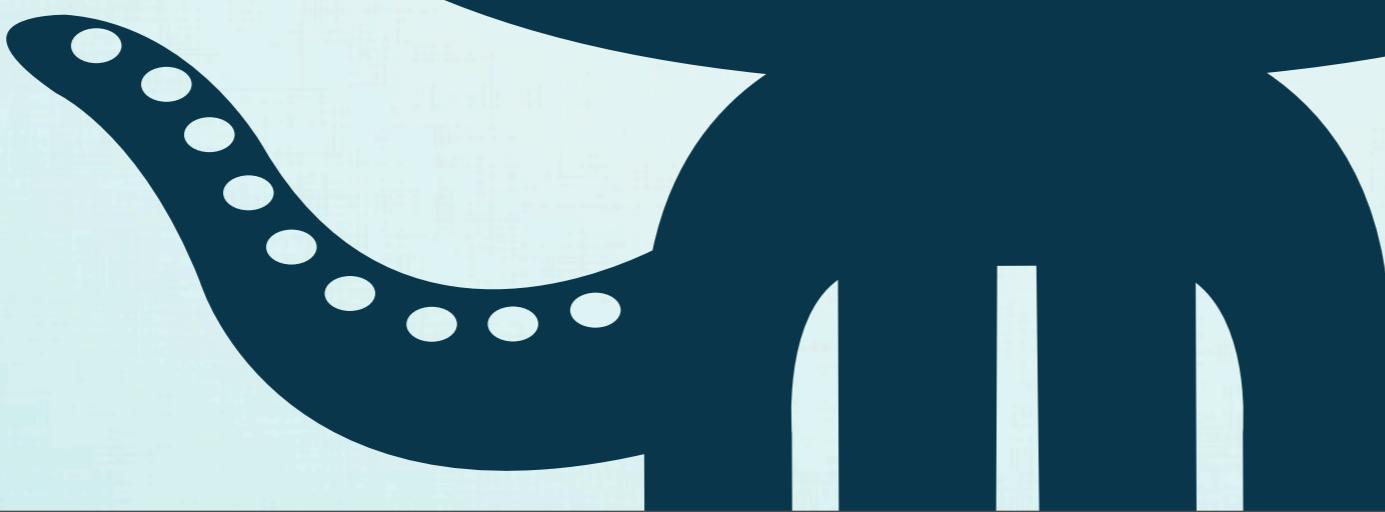
**Kyle Neath is...**

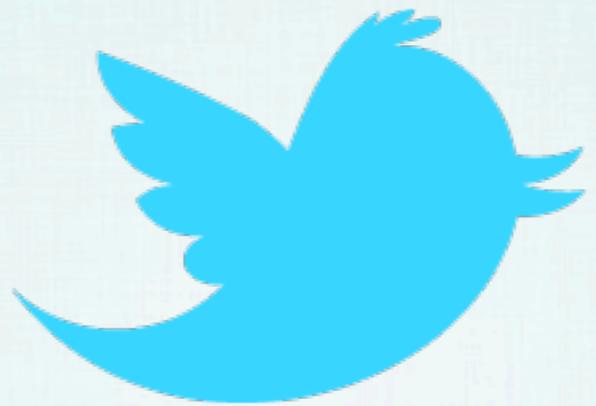


~designer

@

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**

**... 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
~ $
```

**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...](http://flickr.com/photos/c-k-j/5...)

15 hours ago

**bguthrie** Brian Guthrie

via 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

**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



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## What's happening?

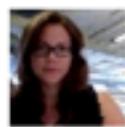
Timeline

@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

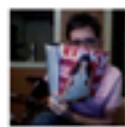
Check out [@Tazinos](#) pizza, salad & desert buffet. Fresh food, nice price: \$8 adults \$5 kids on wknds \$7/\$4 weekdays (Pilgrim & Silver Spring)

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

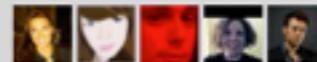
**jonesabi** Abi Jones

"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

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 &amp; 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?

Timeline

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1 minute ago

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

2 minutes 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)

4 minutes ago

**luxuryluke** Luke Dorny

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

6 minutes ago

**cduruk** Can Duruk

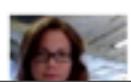
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8 minutes ago

**\_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

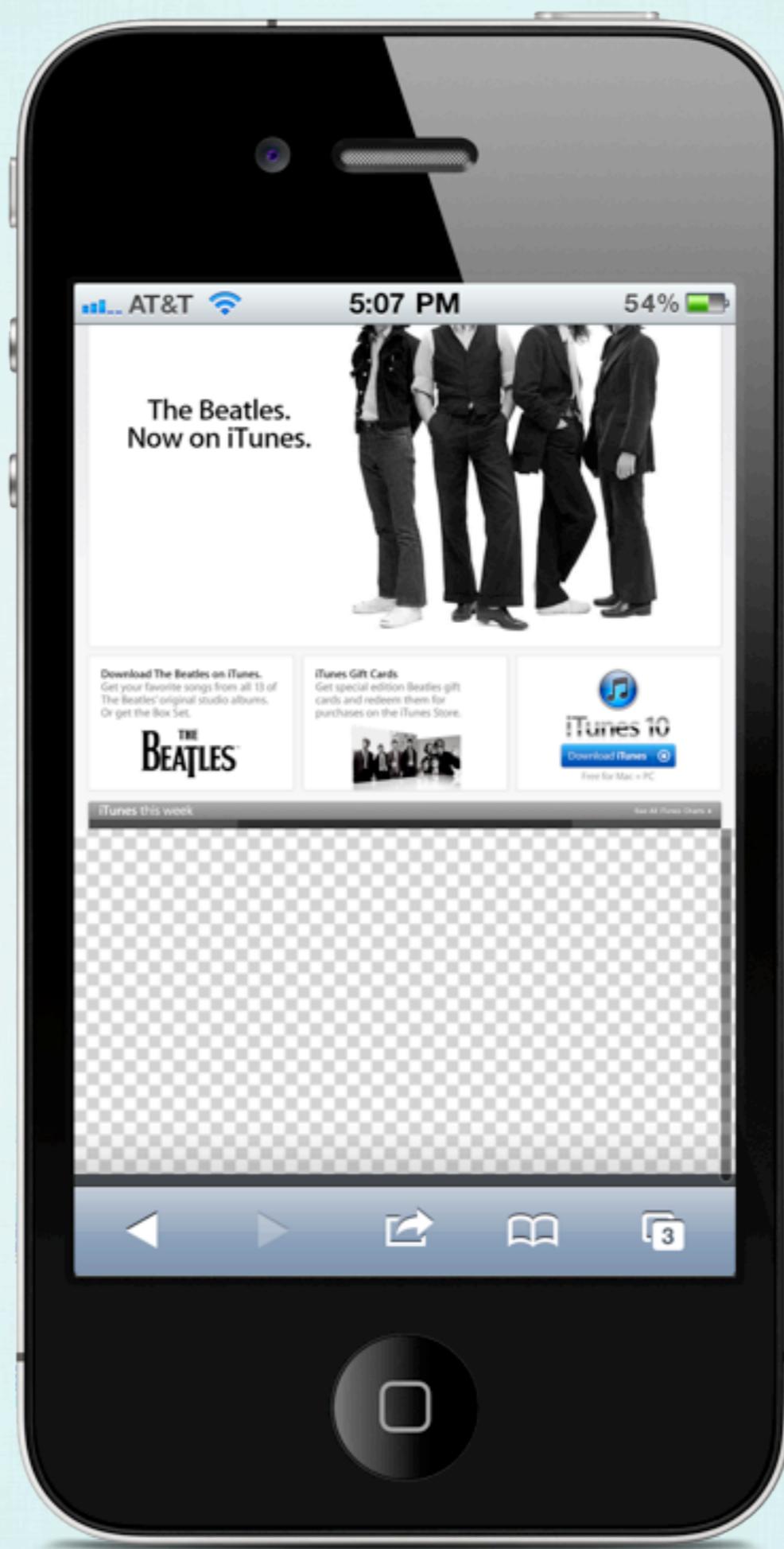
Kyle Neath Sign into chat Call phone adelcambre@gmail.com Bobmortland Briana Kerns Cherif Habib Cody Sickler groovemonkey

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

[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.

[Downloads](#)<http://github.com/blog/542-introducing-resque>[HTTP](#)[Git Read-Only](#)<https://github.com/defunkt/resque.git>[!\[\]\(d3bd359873c7e7f96144f6575d72c0dc\_img.jpg\) Read-Only access](#)**1.17.1****defunkt** (author)

about 6 hours ago

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

**resque /**

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

Branch: master

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

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Downloads

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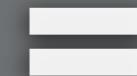
Read-Only access

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**

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

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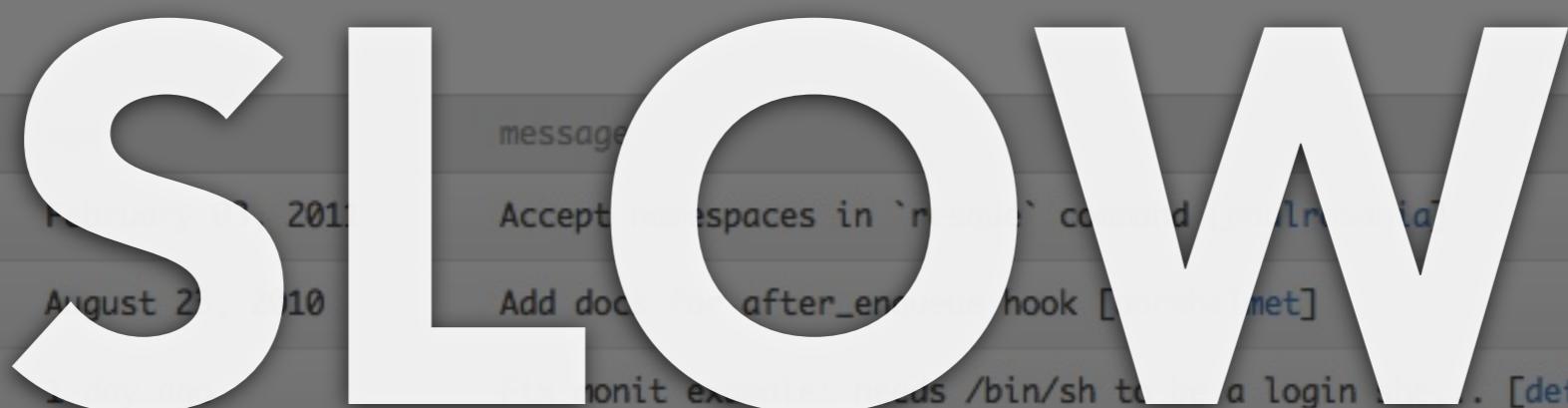
1.17.1



defunkt (author)

about 6 hours ago

commit e2d5804022366f18366d  
tree 4c6c166ed2f0cd3d07da  
parent 8401f8ebe39583142edd

[resque /](#)

SLOW

name

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

message

Accept spaces in `r` command [defunkt]

Add documentation after\_end hook [defunkt]

monit example uses /bin/sh to run a login shell. [defunkt]

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

HTTP		Git Read-Only	https://github.com/defunkt/resque.git	Read-Only access
1.17.1				commit e2d5e22366f18366d tree 4c6c166ed2f0cd3d07da parent 8401f8ebe39583142edd

resque /



name	age	message	history
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lib/	about 6 hours ago	1.17.1 [defunkt]	
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.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]	

# Caching!

...is really difficult

# AJAX!

# Ajax!

loaders are not responsive

# Ajax!

loaders are not responsive

## defunkt / resque

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

## defunkt / resque

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

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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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about 6 hours ago

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**Only use loaders when  
requests are slow**

~500ms

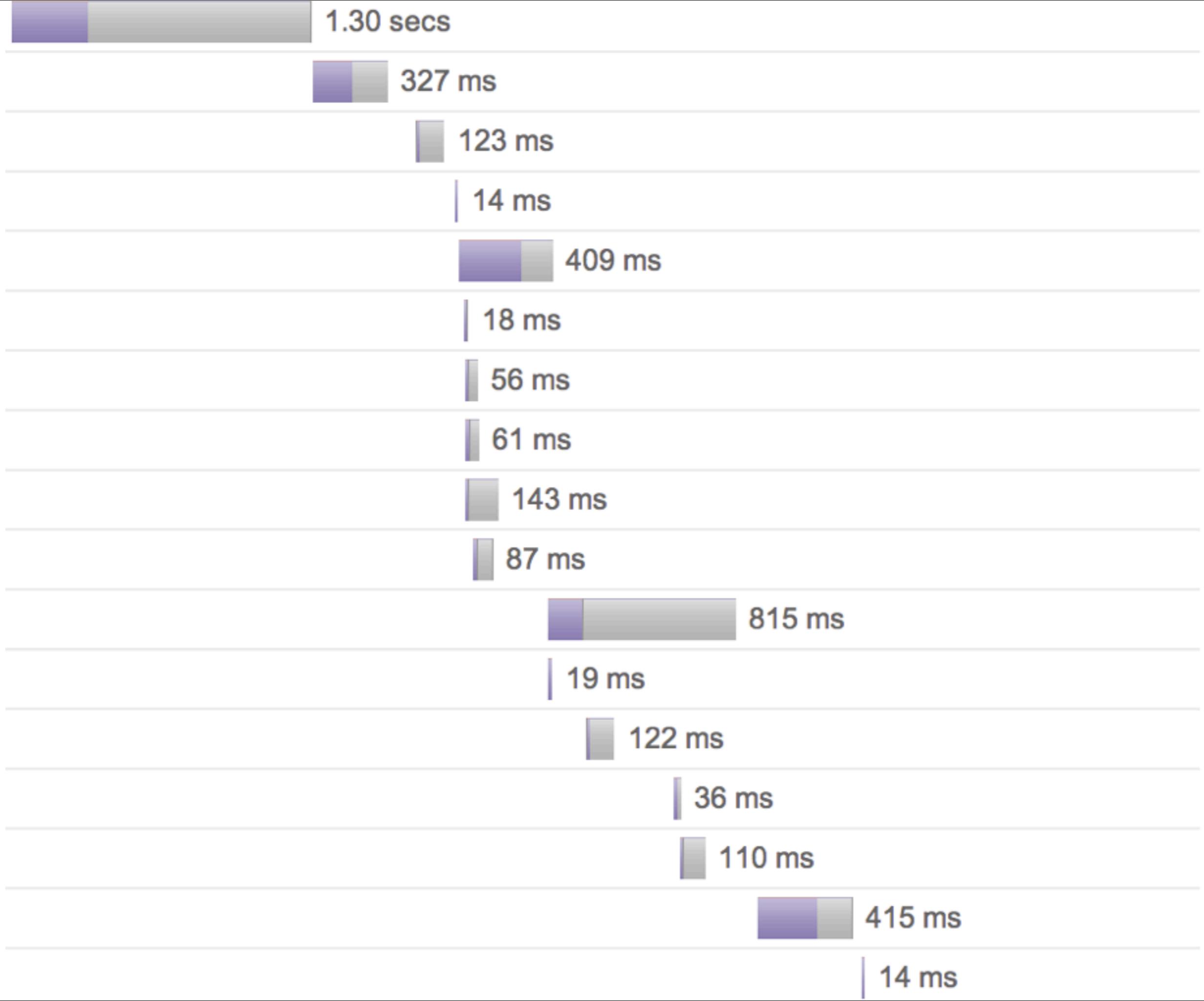
**Cache content for  
zero-request updates**

Think about the back button

**There will always be  
full page loads**

If you want fast...

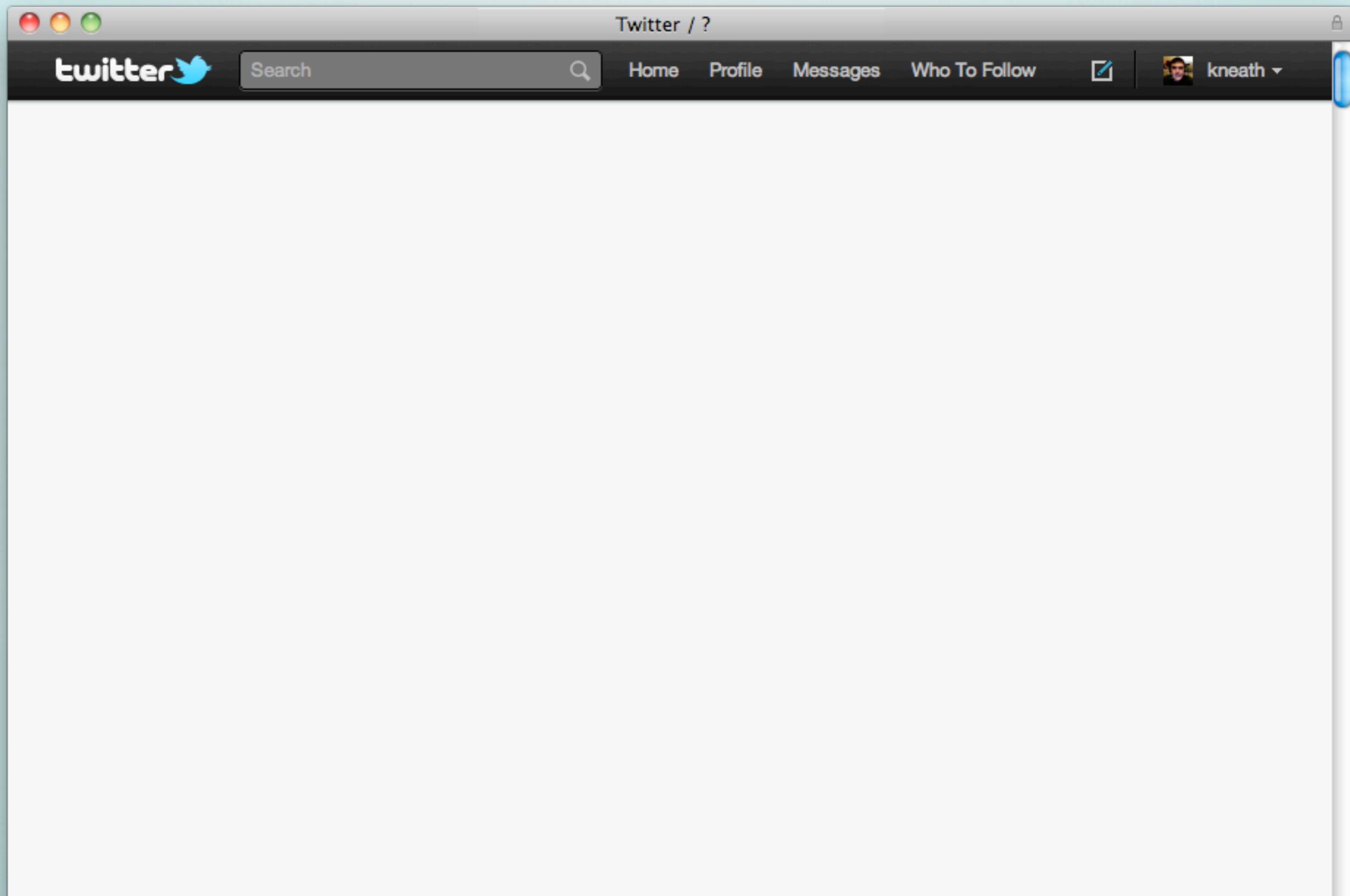
**Serve all HTML (or JSON)  
in one request**



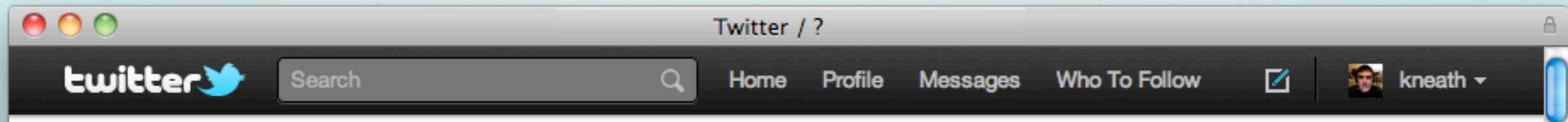
**Remember, page load time  
is about perception**

When can I: scroll, read text, click links?

# Twitter: HTML + CSS + JS



# Twitter: HTML + CSS + JS



# API Driven

# Apply Science

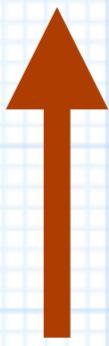
<https://twitter.com/#!/kneath>

**4.7 sec**

total load time

**4.3 sec**

timeline load



**Time to usable!**

# Apply Science

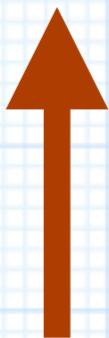
<https://github.com/kneath>

**3.4 sec**

total load time

**1.1 sec**

HTML/CSS/JS loaded



**Time to usable!**

# Why is Twitter's so slow?

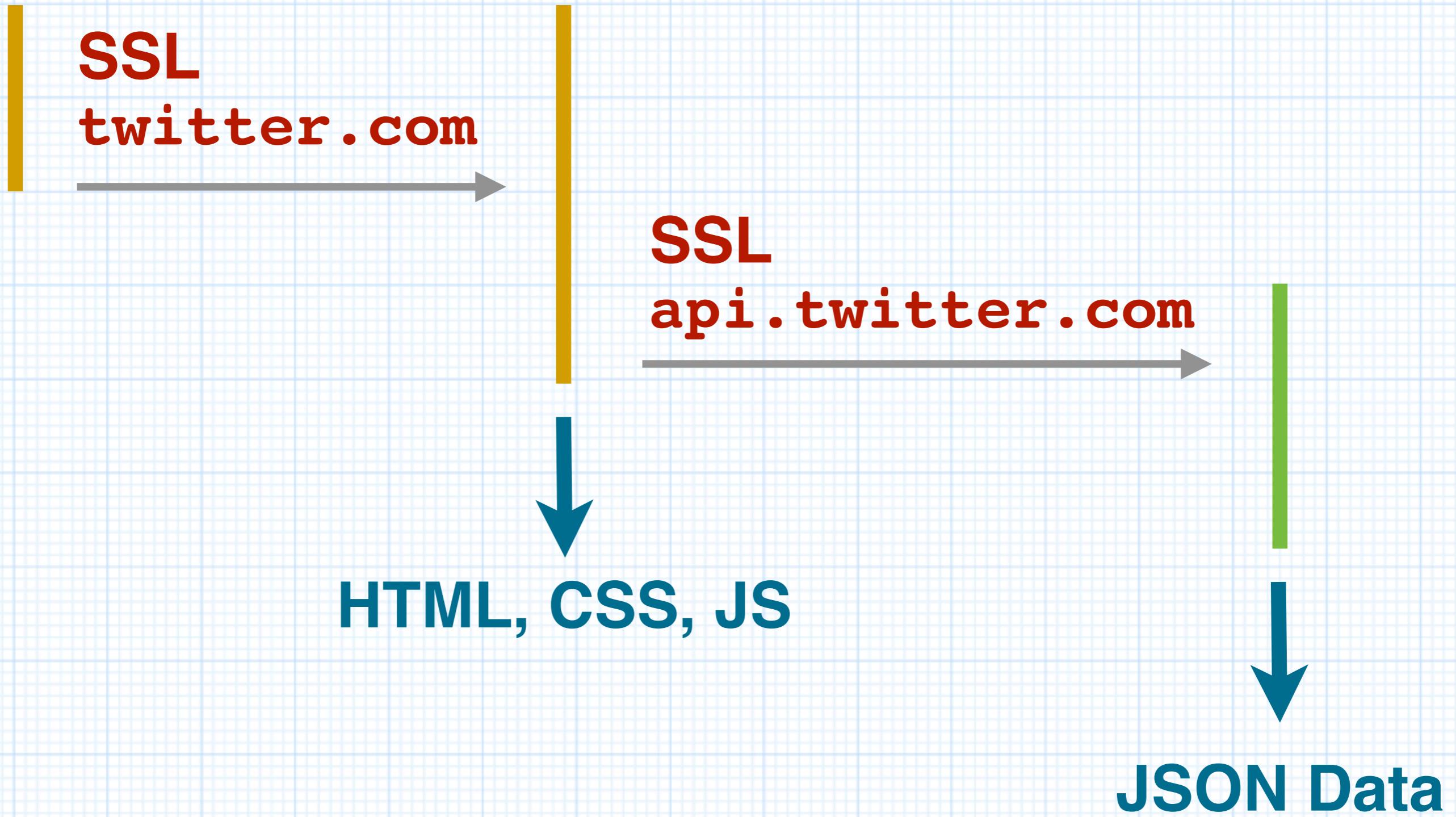
**ssl**

**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

[Watch](#)[Fork](#)[2,240](#)[261](#)**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.

[Downloads](#)<http://github.com/blog/542-introducing-resque>[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
<a href="#">bin/</a>	February 03, 2011	Accept namespaces in `resque` command [paulrosania]	
<a href="#">docs/</a>	August 23, 2010	Add docs for after_enqueue hook [darkhelmet]	
<a href="#">examples/</a>	1 day ago	Fix monit example: needs /bin/sh to be a login she... [defunkt]	
<a href="#">lib/</a>	about 6 hours ago	1.17.1 [defunkt]	
<a href="#">test/</a>	May 16, 2011	Hoptoad backend has always been optional - don't r... [defunkt]	
<a href="#">.gitignore</a>	May 16, 2011	added Gemfile.lock to gitignore [morgoth]	
<a href="#">.kick</a>	November 02, 2009	rake kick [defunkt]	
<a href="#">Gemfile</a>	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
..			
<a href="#">resque</a>	February 03, 2011	Accept namespaces in `resque` command [ <a href="#">paulrosania</a> ]	
<a href="#">resque-web</a>	March 03, 2010	Feature: specify a Redis namespace via command ... [ <a href="#">rmoriz</a> ]	

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

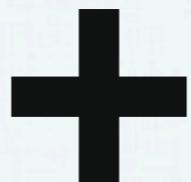
**Render HTML in AJAX/JSON**  
partials are your friend

**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](#)

Branch: master

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Even better screenshot in README



defunkt (author)

about 22 hours ago

commit 157926e913712300027d

tree 4ee9d7c35835da1bbbec

parent 167e6fdb171d21d02ba1

[resque /](#)

name	age	message	history
<a href="#">bin/</a>	February 03, 2011	Accept namespaces in `resque` command [ <a href="#">paulrosania</a> ]	
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defunkt/resque – GitHub

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

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defunkt / resque

Watch Fork 2,242 263

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

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

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Even better screenshot in README

defunkt (author) about 22 hours ago

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## resque /

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Gemfile	2 days ago	Add rake task to run the Gemfile's test group. [dpiddy]	
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>

# 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

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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

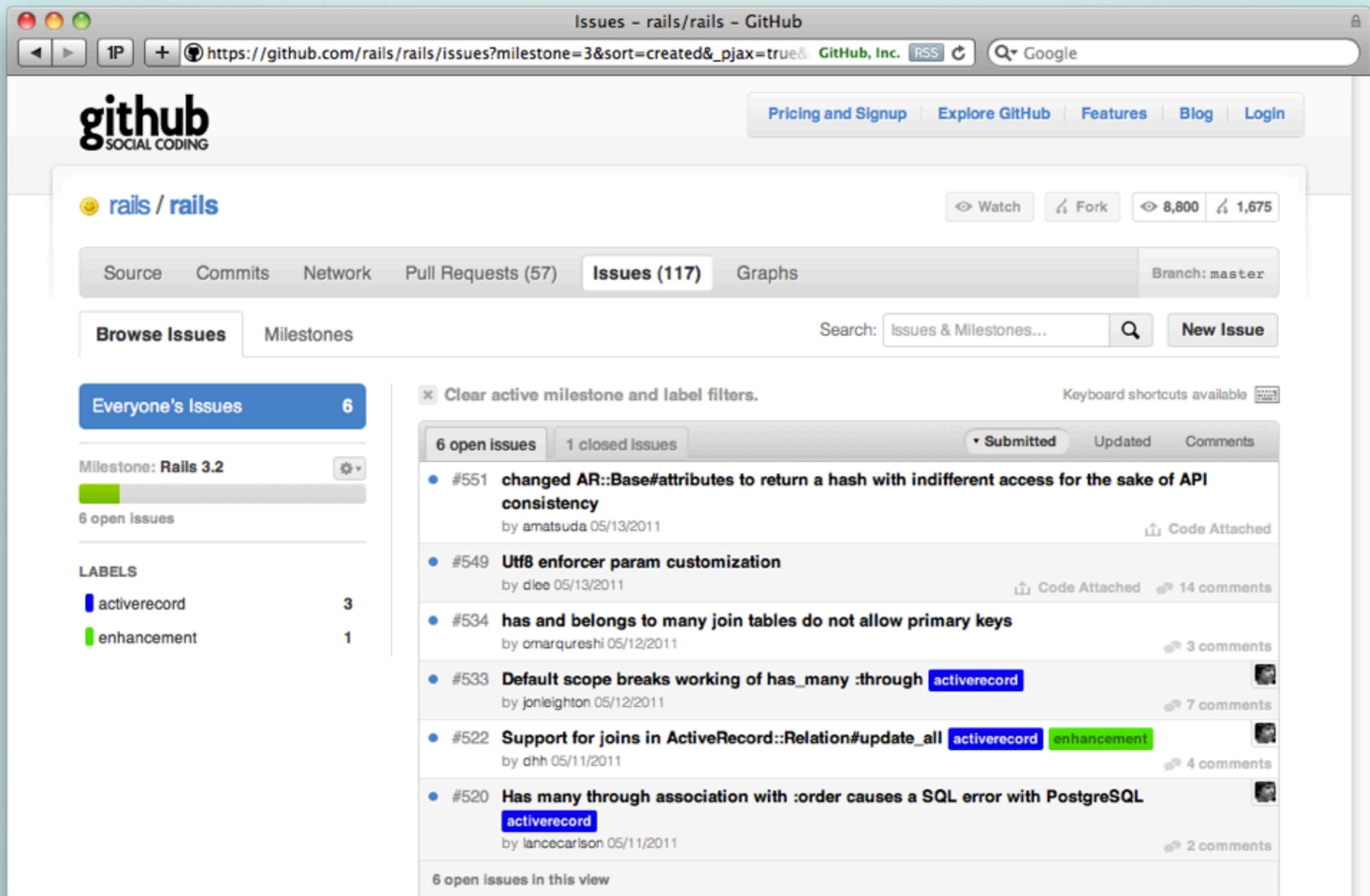
LABELS activerecord 3 enhancement 1

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

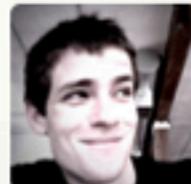
This example shows the power of the History API when combined with infinite scroll. Fluid user experience and hard linking all in one. Scroll down, click a link & press the back button, refresh the page — it all just works.



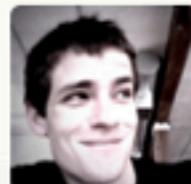
@holman Zach Holman  
@moonpolysoft i'm not really hungry right now though  
about 15 hours ago



@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](http://warpspire.com/talks/responsive)