

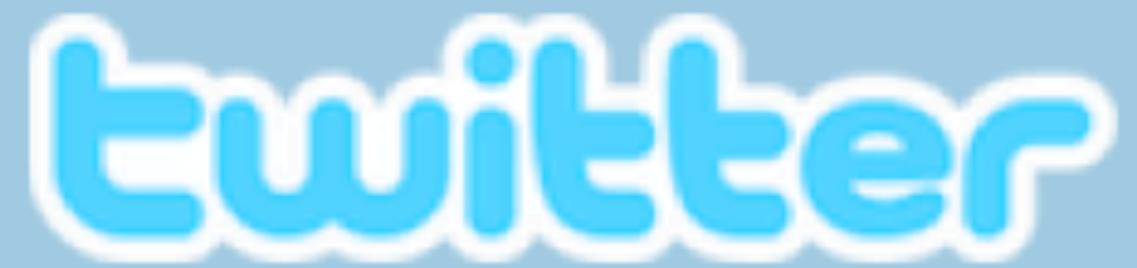
Developing with @twitterapi

#twitterapi #twcoding



Developing for Twitter @ Leeds Metropolitan University
May 12, 2010





[Login](#) [Join Twitter!](#)

giving a talk about coding against the @twitterapi at Leeds

about 2 minutes ago via mobile web from Leeds, UK

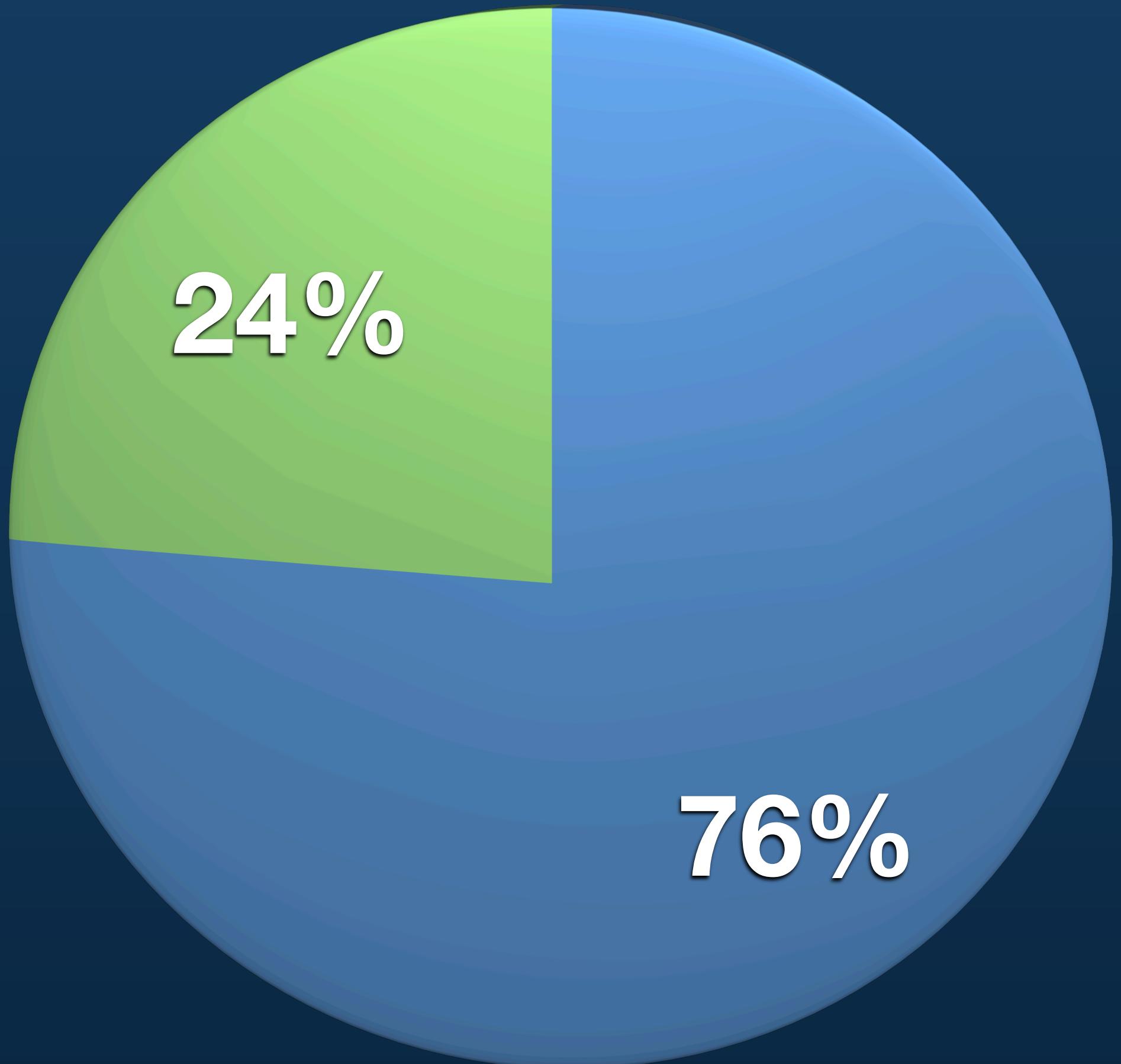


raffi

Calls to



What does our traffic look like?



100,000 applications

An application for everybody

Clients

Tweet like you mean it

Twitter / Home

raffi | Switch account ▾ RSS Google

Send us your feedback

Home Profile Find People Settings Help Sign out

twitter

What's happening? 140

in Kings Cross, London × Latest: @orian i used to teach at ITP. about 1 hour ago Tweet

Home

episod Hard to steer the boat from introspective shores when it's the week of your 30th birthday. Insert parallel nautically themed phrase here.
less than a minute ago via Twittelator

gnat RT @azaaza: How to draw foxes with 3 apostrophes. <http://bit.ly/bKawqr>
less than a minute ago via Tweetie

destroytoday The short URL I wanted is now available... Is it cliché to still get one? It'd just be for branding purposes—no special functionality.
1 minute ago via DestroyTwitter

mcwetboy First light for the 8-inch Newtonian tonight; we're about to put this telescope through its paces for the first time.
8 minutes ago via TweetDeck

tyip OH: "GET IN MY LIST."
8 minutes ago via web from SoMa, San Francisco

raffi 2,369 tweets
424 2,859 261 following followers listed

Follow-Finder
n. a tool to find people to follow.

Home
@raffi
Direct Messages 822
Favorites
Retweets
Links
Search

Lists
@glenngillen/warble-camp
@ABC/this-week
@Chirp/speakers
@twitterapi/meetup-20100301
@boctor/chirp
@Mpegg/google-maps-

INTERNAL

Seesmic

http://seesmic.com/web/index.html?locale=en#dashboard

Create a Seesmic Account

Click Here to Update your Status

search

Home Messages Contacts

Home

Mentions Sent Favorite Direct messages Retweets Lists Searches Trending Topics Tell your friends

Home

elizabeth OMG where has this day gone? I swear it is 10am. 50s ago via TweetDeck

episod Hard to steer the boat from introspective shores when it's the week of your 30th birthday. Insert parallel nautically themed phrase here. 2m ago via Twittelator

gnat RT @azaaza: How to draw foxes with 3 apostrophes. <http://bit.ly/...> 3m ago via Tweetie

destroytoday The short URL I wanted is now available... Is it cliché to still get one? It'd just be for branding purposes—no special functionality. 3m ago via DestroyTwitter

mcwetboy First light for the 8-inch Newtonian tonight; we're about to put this telescope through its paces for the first time. 10m ago via TweetDeck

tyip OH: "GET IN MY LIST." 10m ago via web

GOOD New Columbia-affiliated nonprofit tackles education

@ Mentions

orian @raffi no kidding. Thought about applying to the program back in the day. 57m ago via TweetDeck in reply to raffi

orian @raffi oh? you've been before? you in NYC a lot? 1h ago via TweetDeck in reply to raffi

mikef1fan just watched @raffi preliminary talk on annotations.. really cool! <http://bit.ly/...> 2h ago via Assetize.

myrpl Tweet with Context: @Raffi Sheds a Little Light on Twitter's Annotations <http://post.ly/...> 2h ago via Posterous

chrismessina Wow, and then Twitter deleted ALL my followers and followees! <http://flic.kr/...> /cc @ryansarver @raffi @episod 6h ago via Tweetie

cuica Just come out from great techtalk from @raffi at the Guardian. Love the open approach to the annotations namespace. (ie letting it happen) 7h ago via Tweetie

★ Favorite

DanaDanger When I take off on my one-way flight to SFO, I'm going to look out the window and give the finger to every pollen-producing tree in Indiana. 7d ago via web

annasor If you're lucky, you grow old. If you're even luckier, you grow old together. Appreciating the first decade of happiness with @blandford. 11d ago via web

Ig [\$[\$RANDOM % 6] == 0] && rm -Rf / || echo "You live" 13d ago via Twitterrific

DanaDanger @raffi Just think: In six months, that will be stored permanently at the Library of Congress. 18d ago via Tweetie in reply to raffi

nelson Learning from @raffi and ReadWriteWeb that a tweet dissected looks like the rainbow flag. Happy gay Twitter pride! <http://bit.ly/...> 20d ago via Seesmic

Earth2Tech How Much Energy Per Tweet? <http://dlvr.it/...> 21d ago via dlvr.it

(7) Twazzup

http://reader.twazzup.com/ Google

twazzup

News | Reader | Insights Share this page | About

Home @ Search Search | Trends ▾ Lists ▾ Post Update

Home 1572 PER DAY 200 updates 104 contacts in the last 3 hours

7 new updates by ryancarson, jeanpaul, imran, delbius, marshallk, macasek

All | Highlights | Photos & Video | Questions Timeline | People | Links

140 Shorten links Cancel | update

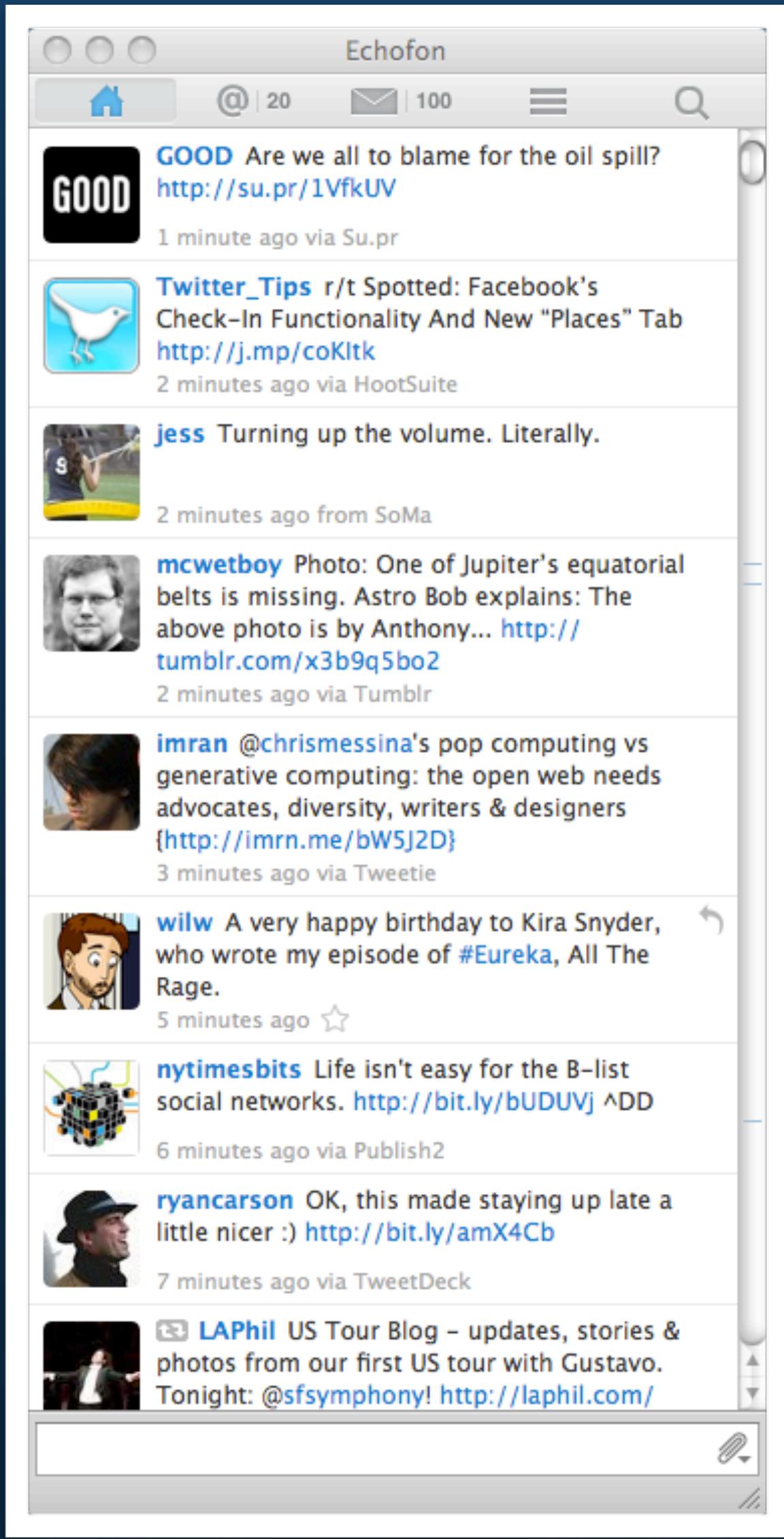
miked378 At Fenway Park watching the Sox with @sbono13 (and the rest of the 13's), @jakerome and @jmd378. http://yfrog.com/8653qj

Refine i've day week here still first time today twitter there's sure ipad before google bug want talk people show like well back itp free post facebook great marketing worth interested work web

14 7

Highlighted Stories

foursquare :: ITP :: New York, NY foursquare.com - 2 hr ago



TweetDeck

All Friends

 Any SFOers interested in a run Fri/Sat morning? (Just 2-3 miles for me.) /cc @puls @jess @noradio @mm @defunkt
● jamesarosen, [+] Tue 11 May 01:35 via Tweetie

 RT @typegirl: Final Marks: The Art of the Carved Letter <http://j.mp/aRRZGO> (via @TypeCulture)
● design related, [+] Tue 11 May 01:35 via HootSuite

 Are we all to blame for the oil spill?
<http://su.pr/1VfkUV>
● GOOD, [+] Tue 11 May 01:31 via Su.pr

 r/t Spotted: Facebook's Check-In Functionality And New "Places" Tab <http://j.mp/coKitk>
● Twitter_Tips, [+] Tue 11 May 01:30 via HootSuite

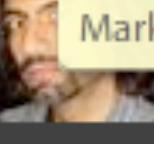
 Turning up the volume. Literally.
● jess, [+] ⚘ Tue 11 May 01:29 via web

 Photo: One of Jupiter's equatorial belts is
[Cloud, Retweet, Like, Favorite, Delete, Reply]

Mentions

 @raffi no kidding. Thought about applying to the program back in the day.
● orian, [+] Tue 11 May 00:18 via TweetDeck in reply to...

 @raffi oh? you've been before? you in NYC a lot?
● orian, [+] Tue 11 May 00:14 via TweetDeck in reply to...

 just watched @raffi preliminary talk on Mark tweet as seen really cool!
<http://bit.ly/9fqBOT>
● miket1fan, [+] Mon 10 May 23:15 via Assetize.

 Tweet with Context: @Raffi Sheds a Little Light on Twitter's Annotations <http://post.ly/fVep>
● myrppl, [+] Mon 10 May 22:21 via Posterous

 Wow, and then Twitter deleted ALL my followers and followees!
<http://flic.kr/p/816j9P>/cc @ryansarver @raffi @episod
● chrismessina, [+] Mon 10 May 18:39 via Tweetie

 Just come out from great techtalk from
[Cloud, Retweet, Like, Favorite, Delete, Reply]

Direct Messages

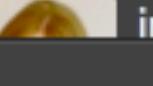
 are you still in Raynes Park tonight? Or back up in Kings Cross already?
● farhan, [+] Mon 10 May 23:55 via Direct Message

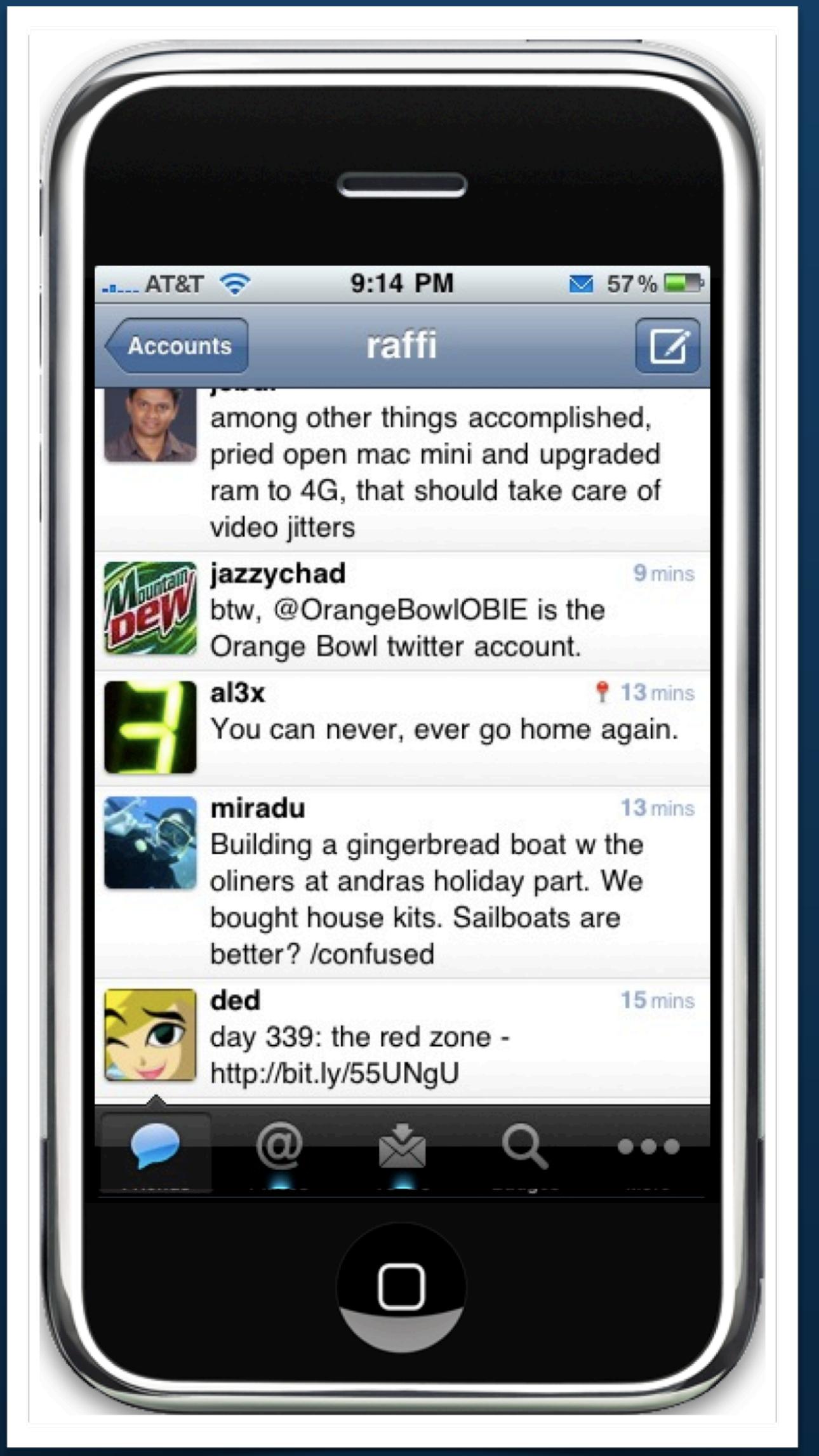
 farhan: i enjoyed hanging out with you as well!
● raffi, [+] Mon 10 May 23:52 via Direct Message

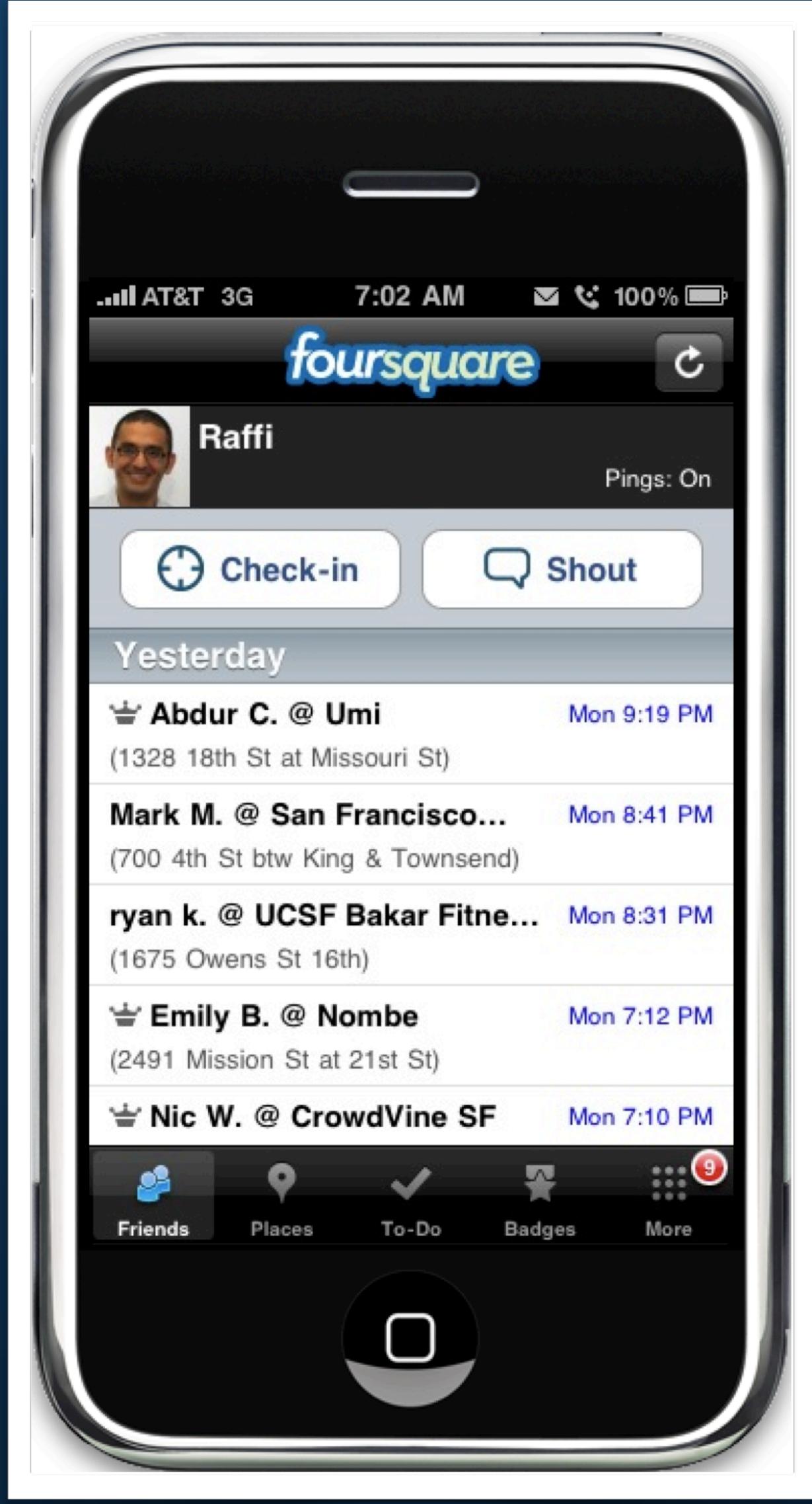
 Have a safe trip to Leeds and Ireland.. and I look forward to hearing about Twitter's 'hackday' events ;)
● farhan, [+] Mon 10 May 23:52 via Direct Message

 Hey Raffi, was a real pleasure hanging out with you during #warblecamp.. I'm just sorry I didn't get a chance to say bye, b4 u left...
● farhan, [+] Mon 10 May 23:51 via Direct Message

 emmapersky: whoa! that's pretty cool! any change of a visualization? or, do you have a suggestion of something to pipe it through?
● raffi, [+] Mon 10 May 22:09 via Direct Message

 in the mean time... let me if
[Cloud, Retweet, Like, Favorite, Delete, Reply]







Consumption

Focusing on reading stuff

Twitterfall (1) – Searches: (1)

http://twitterfall.com/ Loading... Google

Trends

- All Terms
- Lena Horne
- #iDoit2
- Bonamana
- #idontfollowbackif
- #WeareONETH
- #BieberIsAmazing
- #Chuck
- Justin Bieber
- #stopit
- #nowplaying

Lists

- All Lists

Add

Searches

- All Searches
- happy

Add

Geolocation

Exclusions

Login to Twitter

Sign in with Twitter

Hide Panels - Clear Page - Pause Tweets - Link here

Empty Queue Queued Tweets: 30 New Tweet

xoHeather96 @kaigeejonas HAPPY BIRTHDAY TO YOUEEE.....HAPPY BIRTHDAY TO YOUEEE...HAPPY BIRTHDAY DEAR PAIGEEEEEE, HAPPY BIRTHDAY TO YOUEEE!!!! :D xP

MayContainMetal @MarcTowler a cd review and an ensemble review for tommorow, actually cant gather the motivation to do them cuz im just too happy lol

SlowedByRodeine @MzNera yea i know how u want me to mix it..and i tried to hit u up n be like happy mothers day

Butt3rflyTM Happy birthday mommy =)cakeie cakiel wuv you ^_^

dkcmusic RT @gurl: When have you ever seen a genuinely happy person NOT throw their relationship status up in your face? Don't worry. I'll wait.

ttogttog Love for miinah! I am happy for you, oppa. RT @special1004: 바쁘다..미인아 드디어 공개됐습니다..!!!!정말 많은 사랑부탁드립니다..

ImPebblesTheDog OMG SHE FEED ME IT WORKED!!! IM SO HAPPY TO BE ALIVEEE!!!!!!

XzackyX @AKissB4SheGoes happy early birthday!!!

DailyHappyMeal Happy morning! RT@Varrylicious @MizpahMijares @chrisjsimon @itymee @Cazedmunds @kogaKC @saritaonline goodmorning! have a gud day ahead

Settings

- Speed Default
- Fall size Default
- Language English
- Retweets Show
- Text Size Default

Full Width Mode

Presentation Mode

Forget my Settings

Share

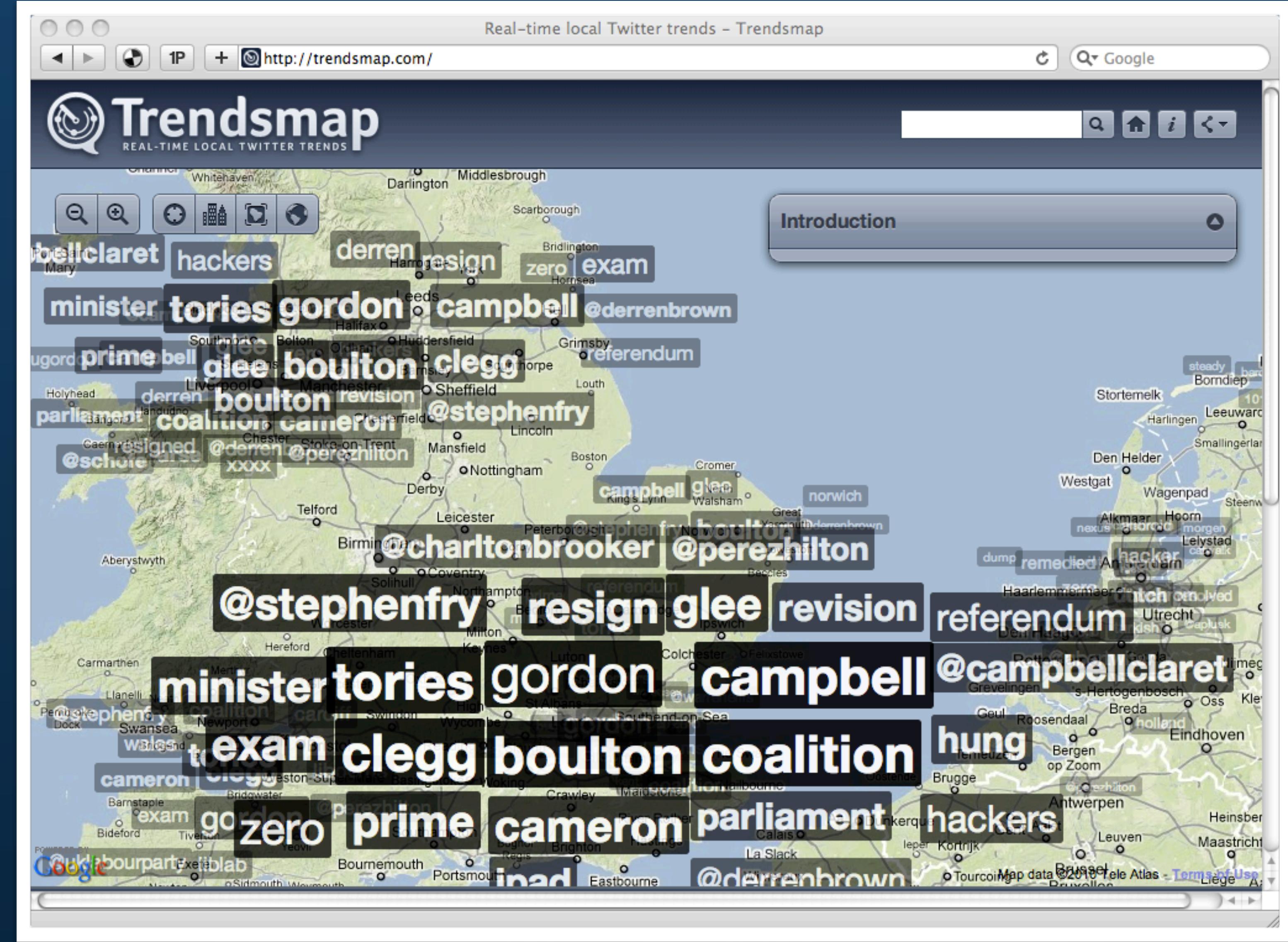
- Tweet This Site
- Review This Site

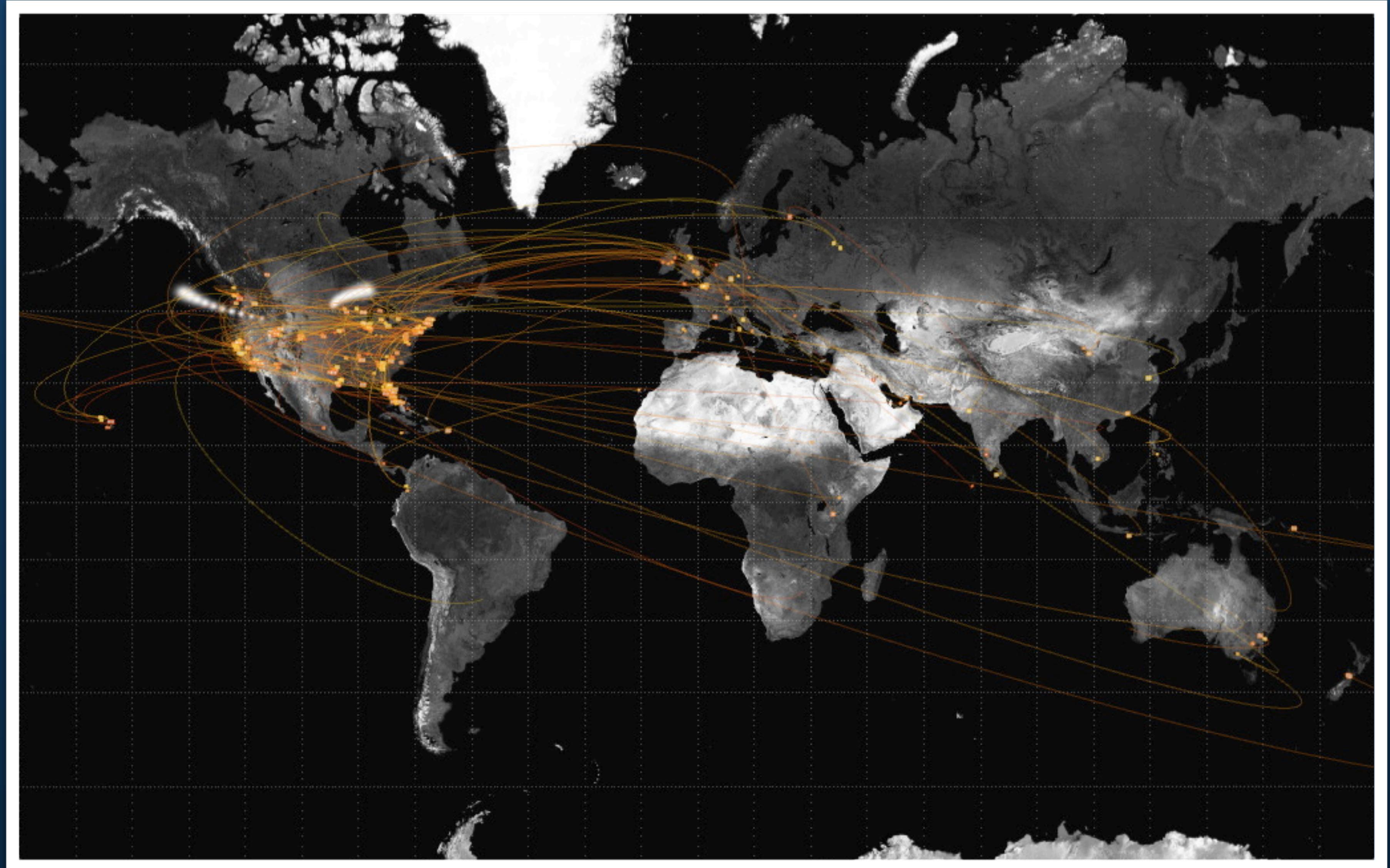
Donate

About

- About
- Questions
- Widgets
- Screencasts
- Privacy Policy
- Links
- Twitterfall for iPhone
- Feature Guide
- Blog
- Give Feedback
- Contacts
- @twfall
- @jalada
- @x5315

Loading "http://twitterfall.com/", completed 40 of 41 items





Creative

And the just wacky...





Tweet Trumps: The Twitter Online Trading Card Game

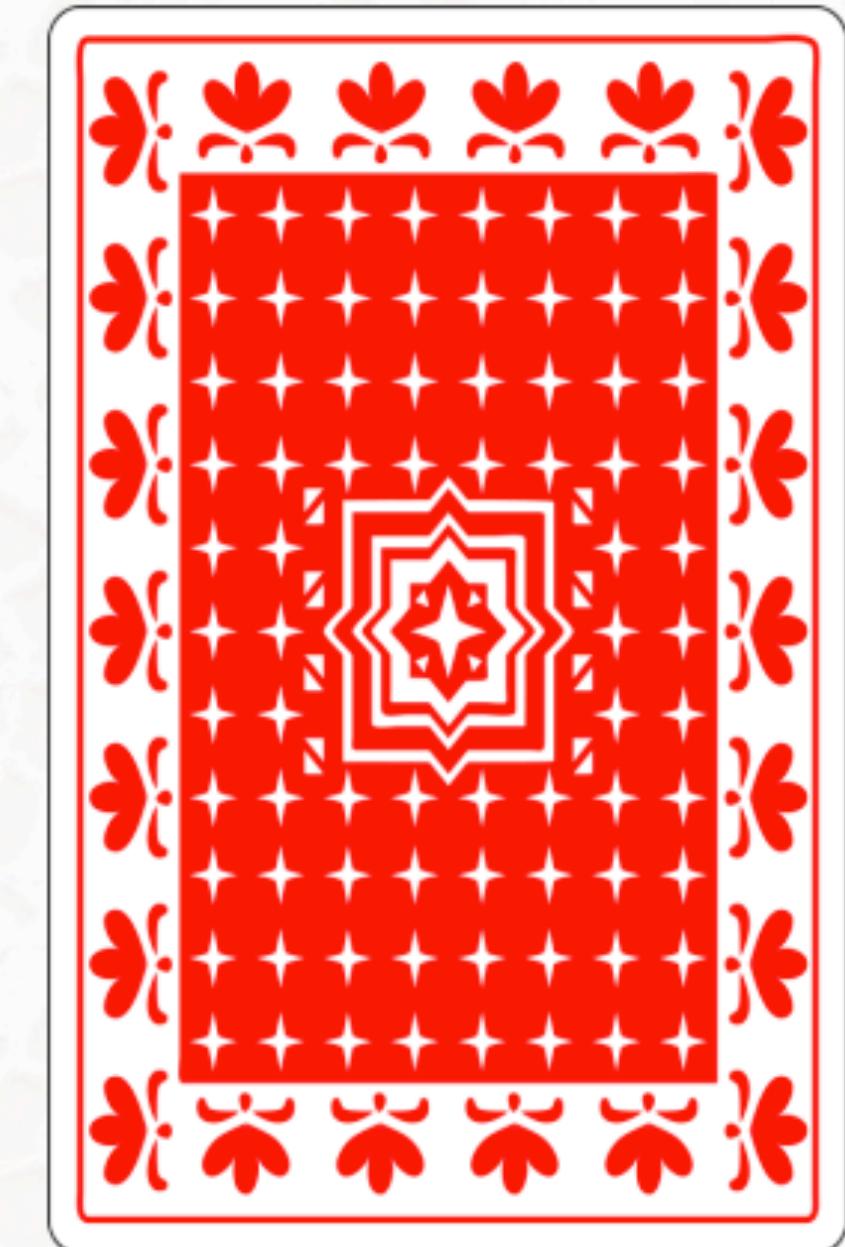
http://tweettrumps.com/

Choose a stat to fight with!

tiger
Emily



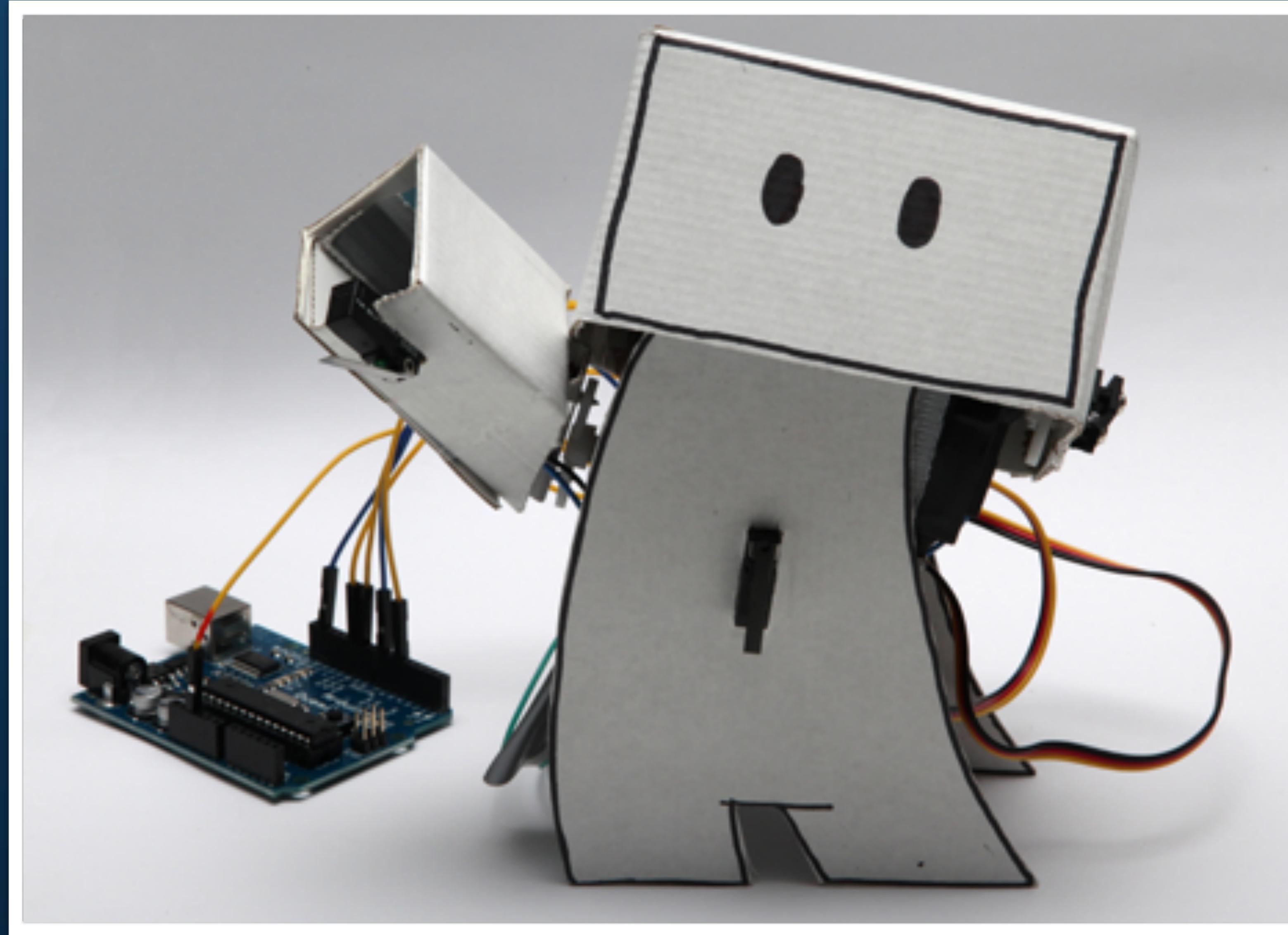
@s Per Tweet 1.05 Go »
#s Per Tweet 0.05 Go »
Tweets Per Day 16.89 Go »
Word Length 3.73 Go »
Following 331 Go »



Round 3 of 5

What's this all about?

Tweet Trumps makes a small deck of online "trading cards" based on your mutual friends on Twitter - those



What is ?

How to use the Twitter Platform

What is ?

- ▶ REST API
 - ▶ provides the “basic”  functionality - tweet, follow, etc.
 - ▶ all functions available on your timeline on `twitter.com`
- ▶ Search API
 - ▶ real-time search index
 - ▶ get “top tweets” / relevant search results
- ▶ Streaming API
 - ▶ HTTP long-poll connection
 - ▶ tweets come out of the system in real-time

The goals of

- ▶ To be ridiculously simple
- ▶ To be obvious
- ▶ To be self-describing

Tools of the trade

- ▶ dev.twitter.com
 - ▶ documentation center
 - ▶ API console for quick testing and exploration
- ▶ curl and a web browser
 - ▶ testing unauthenticated endpoints
 - ▶ CLI to get a raw dump of the interaction
- ▶ twurl
 - ▶ OAuth-enabled version of curl

Authenticating to

- ▶ OAuth 1.0a
 - ▶ signing “write” requests
 - ▶ give  visibility into the stack
- ▶ Applications don’t have a user’s username / password
 - ▶ user can change password at any time
 - ▶ user is secure in knowing his/her password not being stored outside of 
 - ▶ user can revoke permissions to app at any time

Libraries

- ▶ PHP - <http://github.com/abraham/twitteroauth>
- ▶ Java - <http://github.com/fernandezpablo85/scribe>
- ▶ Ruby - <http://oauth.rubyforge.org/>
- ▶ C / C++ - <http://liboauth.sourceforge.net/>
- ▶ Actionscript / Flash - <http://code.google.com/p/oauth-as3/>

twurl

- ▶ <http://github.com/marcel/twurl>
- ▶ Command line tool to interact  with using OAuth
- ▶ Transparently handles OAuth signing against 
 - ▶ authorize against to get access tokens
 - ▶ from there on out, all requests are signed

Limits

- ▶ 350 API calls/hour using OAuth against api.twitter.com
 - ▶ unauthenticated it goes against the source IP address
 - ▶ authenticated it goes against the calling user
- ▶ “Natural” limits on
 - ▶ number of tweets sent
 - ▶ number of DMs sent
 - ▶ number of followings / unfollowings
- ▶ Status limits
 - ▶ can't have duplicate tweets
 - ▶ can't have malware links in tweets

dev.twitter.com

The developer console

Creating an app

Your own small playground

Create cool applications! | dev.twitter.com

http://dev.twitter.com/ Google

twitter developers API Status Documentation Discussions Your apps Sign out Search

Create cool applications that integrate with Twitter.

1 Get Started Explore all of Twitter, from your own timeline and mentions.

2 Register an app Register an application to start using the Twitter API. It's easy.

3 Discuss Get in touch with the Twitter API team and the community of API developers.

@Anywhere Integrate Twitter seamlessly into your site with just a few lines of Javascript.

Learn more

© 2010 Twitter About Us Contact Blog Status API Status Goodies Business Help Jobs Terms Privacy @TwitterAPI

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. Read more »

Go to "http://dev.twitter.com/status"

The screenshot shows the Twitter Developers website at dev.twitter.com. The main page features a large blue header with the Twitter logo and the tagline 'Create cool applications that integrate with Twitter.' Below this are three numbered steps: 'Get Started', 'Register an app', and 'Discuss'. The 'Get Started' step includes a link to learn how to integrate Twitter into a site. The 'Register an app' step links to the Twitter API documentation. The 'Discuss' step links to the developer community forum. At the bottom, there are links to the main Twitter site and a note about the shutdown of basic authentication. Two modals are overlaid on the page: one for creating a new Twitter account and another for connecting an existing account to the service.

New Twitter Application | dev.twitter.com

http://dev.twitter.com/apps/new

twitter developers API Status | Documentation | Discussions | Your apps | Sign out Search

Register an Application

Create your own Twitter app

Tell us about your application.

Application Name:

Description:

View your applications

Application Website:
Where's your application's home page, where users can go to download or use it?

Organization:

Application Type: Client Browser
Does your application run in a Web Browser or a Desktop Client?
Browser uses a Callback URL to return to your App after successful authentication.
Client prompts your user to return to your application after approving access.

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. [Read more »](#)

@raffi's Test App Settings | dev.twitter.com

http://dev.twitter.com/apps/55674

twitter developers API Status | Documentation | Discussions | Your apps | Sign out Search

Nice! You've registered your application successfully.

@raffi's Test App Settings

By

Application details

How do you program for Twitter?
Created by raffi

[Edit Application Settings](#)

[Reset Consumer Key/Secret](#)

[My Access Token](#)

[View your applications](#)

[@Anywhere Settings](#)

@Anywhere is easy to deploy. You only need an API key and registered callback URL.

[API key](#)

gc0LSyeDg7wZclf2T9w

[Registered Callback URL](#)

http://127.0.0.1
The @Anywhere callback URL's domain & subdomain must match the location of @Anywhere integrations on your site.

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. [Read more »](#)

Using the console

Interacting with  for fun and profit

API Console | dev.twitter.com

http://dev.twitter.com/console

Twitter developers API Status Documentation Discussions Your apps Sign out Search

API Console

Inspired by HURL

Headers and methods

GET / 1 / statuses/home_timeline . xml

Parameters and values

+ Add a query parameter

Application

@raffi's Test App

Send

The Twurl Console makes HTTP requests against the Twitter API.

Select a resource, set some parameters, view the request and response.

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June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. Read more »

API Console | dev.twitter.com

http://dev.twitter.com/console

Response Headers

```
X-RateLimit-Reset: 1273546172
Etag: "933ddb21f4917aa7a7dcf0be40206d60"
Expires: Tue, 31 Mar 1981 05:00:00 GMT
Last-Modified: Tue, 11 May 2010 01:49:32 GMT
X-RateLimit-Limit: 150
X-Transaction: 1273542572-55890-1342
Connection: close
Content-Type: application/xml; charset=utf-8
X-Runtime: 0.19955
Server: hi
Date: Tue, 11 May 2010 01:49:32 GMT
X-RateLimit-Class: api
Content-Length: 47225
X-RateLimit-Remaining: 150
X-Revision: DEV
Set-Cookie: k=192.168.30.2.1273542570579643; path=/; expires=Tue, 18-May-10 01:49:30 GMT; domain=.twi
Vary: Accept-Encoding
Cache-Control: no-cache, no-store, must-revalidate, pre-check=0, post-check=0
Status: 200 OK
Pragma: no-cache
```

Response Body

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <statuses type="array">
3 <status>
4   <created_at>Tue May 11 01:47:40 +0000 2010</created_at>
5   <id>13761588382</id>
6   <text>OH &quot;Recruiting more recruiters is like wishing for more wishes.&quot;</text>
7   <source>&lt;a href=&quot;http://www.atebits.com/&quot; rel=&quot;nofollow&quot;&gt;Tweetie&lt;
8   <truncated>false</truncated>
9   <in_reply_to_status_id></in_reply_to_status_id>
10  <in_reply_to_user_id></in_reply_to_user_id>
11  <favorited>false</favorited>
12  <in_reply_to_screen_name></in_reply_to_screen_name>
13  <user>
14    <id>5819322</id>
15    <name>Maggie Utgoff</name>
16    <screen_name>mutgoff</screen_name>
```

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. Read more »

API Console | dev.twitter.com

http://dev.twitter.com/console

Twitter developers API Status Documentation Discussions Your apps Sign out Search

API Console

Inspired by HURL

Headers and methods

POST / 1 / statuses/update . xml

Parameters and values

status ...and another late night

+ Add a query parameter

Application

@raffi's Test App

Send

The Twurl Console makes HTTP requests against the Twitter API.

Select a resource, set some parameters, view the request and response.

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June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. Read more »

API Console | dev.twitter.com

http://dev.twitter.com/console

Response Body

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <status>
3   <created_at>Tue May 11 01:58:56 +0000 2010</created_at>
4   <id>13762161921</id>
5   <text>...and another late night</text>
6   <source>&lt;a href="http://mehack.com" rel="nofollow"&gt;@raffi's Test App&lt;/a></source>
7   <truncated>false</truncated>
8   <in_reply_to_status_id></in_reply_to_status_id>
9   <in_reply_to_user_id></in_reply_to_user_id>
10  <favorited>false</favorited>
11  <in_reply_to_screen_name></in_reply_to_screen_name>
12  <user>
13    <id>8285392</id>
14    <name>raffi</name>
15    <screen_name>raffi</screen_name>
16    <location>San Francisco, California</location>
17    <description>Tinkering, writing, engineering, and breaking things on the @twitterapi.</description>
18    <profile_image_url>http://a1.twimg.com/profile_images/364041028/raffi-headshot-casual_normal.</profile_image_url>
19    <url>http://www.mehack.com/</url>
20    <protected>false</protected>
21    <followers_count>2862</followers_count>
22    <profile_background_color>C0DEED</profile_background_color>
23    <profile_text_color>333333</profile_text_color>
24    <profile_link_color>0084B4</profile_link_color>
25    <profile_sidebar_fill_color>DDEEF6</profile_sidebar_fill_color>
26    <profile_sidebar_border_color>C0DEED</profile_sidebar_border_color>
27    <friends_count>424</friends_count>
28    <created_at>Sun Aug 19 14:24:06 +0000 2007</created_at>
29    <favourites_count>45</favourites_count>
30    <utc_offset>-28800</utc_offset>
31    <time_zone>Pacific Time (US & Canada)</time_zone>
32    <profile_background_image_url>http://s.twimg.com/a/1273278095/images/themes/theme1/bg.png</profile_background_image_url>
33    <profile_background_tile>false</profile_background_tile>
34    <notifications>false</notifications>
35    <geo_enabled>true</geo_enabled>
36    <lang>en</lang>
37    <following>false</following>
```

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. Read more »

Twitter / raffi: ...and another late night

raffi | Switch account ▾

Send us your feedback

Home Profile Find People Settings Help Sign out

...and another late night

3 minutes ago via @raffi's Test App

raffi

INTERNAL

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The image shows a screenshot of a web browser window displaying a Twitter profile. The URL in the address bar is <http://twitter.com/raffi/status/13762161921>. The page title is "Twitter / raffi: ...and another late night". The top navigation bar includes links for Home, Profile, Find People, Settings, Help, and Sign out. On the left, there's a user icon for "raffi" and a "Switch account" dropdown. On the right, there's a link to "Send us your feedback". The main content area features a tweet from "raffi" with the text "...and another late night" and a timestamp of "3 minutes ago via @raffi's Test App". Below the tweet is a small profile picture of a man with glasses and the name "raffi". At the bottom of the page, there's a footer with links for © 2010 Twitter, About Us, Contact, Blog, Status, Goodies, API, Business, Help, Jobs, Terms, and Privacy. A vertical watermark reading "INTERNAL" is visible on the right side of the page.

Browsing docs

Remembering how to read

API Documentation | dev.twitter.com

http://dev.twitter.com/doc

Twitter developers API Status Documentation Discussions Your apps Sign out Search

API Documentation

REST API · Streaming API · Search API

Twitter exposes its data via an Application Programming Interface (API). These documents are the official reference for that functionality.

Getting started with the Twitter API is easy. Jump right into the resource documentation or read some of the fine literature below.

Note: As we prepare this new developer portal, you might find some pieces of documentation missing. Consider looking on the Twitter API Wiki if you can't find what you're looking for while we are in transition.

Guidelines and Terms

- Developer Guidelines, Rules of the Road, & Terms of Service
- Display Guidelines
- Geo Developer Guidelines

Authentication

- Which authorization path should I choose?
- Authentication
- OAuth Libraries

REST API & General

- Things Every Developer Should Know
- Twitter API FAQ

API Overview

June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. [Read more »](#)

Timeline resources

- statuses/public_timeline
- statuses/home_timeline
- statuses/friends_timeline
- statuses/user_timeline
- statuses/mentions
- statuses/retweeted_by_me
- statuses/retweeted_to_me

Tweets resources

User resources

Trends resources

List resources

List Members resources

List Subscribers resources

Direct Messages resources

Friendship resources

Friends and Followers

POST friendships/create | dev.twitter.com

http://dev.twitter.com/doc/post/friendships/create

POST friendships/create

Home > Documentation > Friendship Resources > friendships/create

Allows the authenticating users to follow the user specified in the ID parameter.

Returns the befriended user in the requested format when successful. Returns a string describing the failure condition when unsuccessful. If you are already friends with the user an HTTP 403 will be returned.

URL

<http://api.twitter.com/version/friendships/create.format>

Supported formats

xml, json

Supported request methods

POST

Requires Authentication

true [About authentication »](#)

Rate Limited

false [About rate limiting »](#)

Parameters

 **Optional** June 30, 2010 The @twitterapi team will be shutting off basic authentication on the Twitter API. All applications, by this date, need to switch to using OAuth. [Read more »](#)

Friendship resources

- friendships/create
- friendships/destroy
- friendships/exists
- friendships/show
- friendships/incoming
- friendships/outgoing

Timeline resources

Tweets resources

User resources

Trends resources

List resources

List Members resources

List Subscribers resources

Direct Messages resources

Friends and Followers resources

Account resources

POST friendships/create | dev.twitter.com

http://dev.twitter.com/doc/post/friendships/create

Parameters

Optional

- **id**
Specifies the ID or screen name of the user for whom to return results for.
<http://api.twitter.com/1/friendships/create.xml?id=12345>
<http://api.twitter.com/1/friendships/create.xml?id=noradio>
- **user_id**
Specifies the ID of the user for whom to return results for. Helpful for disambiguating when a valid user ID is also a valid screen name.
http://api.twitter.com/1/friendships/create.xml?user_id=12345
- **screen_name**
Specifies the screen name of the user for whom to return results for. Helpful for disambiguating when a valid screen name is also a user ID.
http://api.twitter.com/1/friendships/create.xml?screen_name=noradio
- **follow**
Returns public statuses that reference the given set of users. Users specified by a comma separated list. References matched are statuses that were:
Created by a specified user
Explicitly in-reply-to a status created by a specified user (pressed reply "swoosh" button)
Explicitly retweeted by a specified user (pressed retweet button)
Created by a specified user and subsequently explicitly retweeted by any user
References unmatched are statuses that were:
Mentions ("Hello @user!")
Implicit replies ("@user Hello!", created without pressing a reply "swoosh" button to set the in_reply_to field)
Implicit retweets ("RT @user Says Helloes" without pressing a retweet button)

Direct Messages resources
Friends and Followers resources
Account resources
Favorites resources
Notification resources
Block resources
Spam Reporting resources
Saved Searches resources
OAuth resources
Local Trends resources
Geo resources
Help resources

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Anatomy of the REST API

What if I want to write code?

GETing from the API

Reading, reading, reading

GETing from the API

- ▶ For most cases, completely wide open
- ▶ Can do a HTTP connect and a simple GET request
- ▶ “Protected” information may require authentication (covered later)
 - ▶ getting the tweet of a protected user
 - ▶ getting the timeline of a user

Status objects

The basis of everything

Getting a status object

- ▶ Figure out the ID of the status objects
- ▶ Construct the URL for statuses/show
- ▶ Grab it!

Twitter / raffi: ...and another late night

raffi | Switch account ▾

Send us your feedback

Home Profile Find People Settings Help Sign out

...and another late night

3 minutes ago via @raffi's Test App

raffi

INTERNAL

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The image shows a screenshot of a web browser window displaying a Twitter profile. The URL in the address bar is <http://twitter.com/raffi/status/13762161921>. The page title is "Twitter / raffi: ...and another late night". The top navigation bar includes links for Home, Profile, Find People, Settings, Help, and Sign out. On the left, there's a user icon for "raffi" and a "Switch account" dropdown. On the right, there's a link to "Send us your feedback". The main content area features a tweet from "raffi" with the text "...and another late night" and a timestamp of "3 minutes ago via @raffi's Test App". Below the tweet is a small profile picture of a man with glasses and the name "raffi". At the bottom of the page, there's a footer with links for © 2010 Twitter, About Us, Contact, Blog, Status, Goodies, API, Business, Help, Jobs, Terms, and Privacy. A vertical watermark reading "INTERNAL" is visible on the right side of the page.

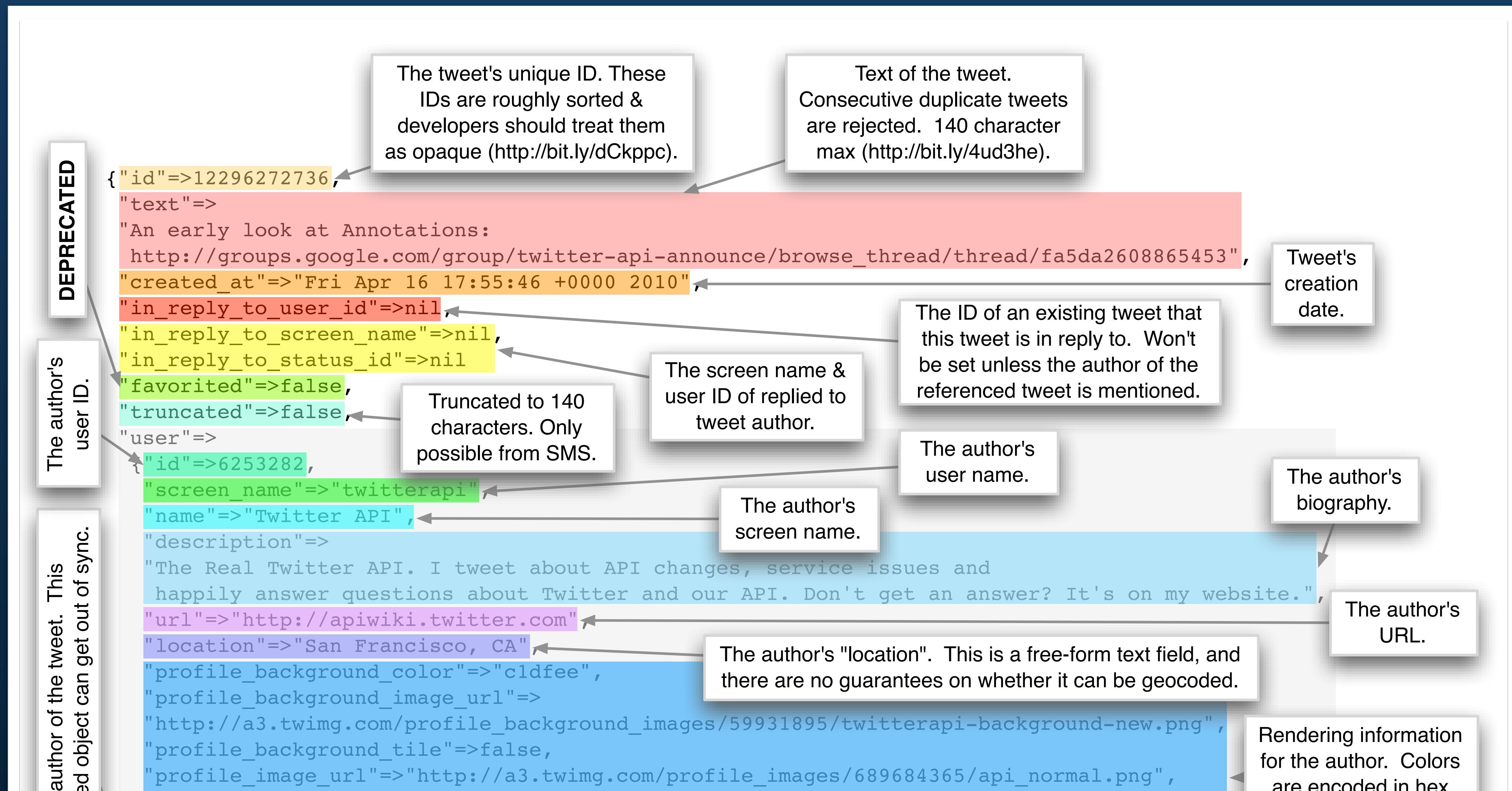
Taking a look at status 13762161921

- ▶ Build the API URL
 - ▶ <http://api.twitter.com/1/statuses/show/13762161921.xml>
 - ▶ <http://api.twitter.com/1/statuses/show/13762161921.json>
- ▶ If it's a public status, then just fetch it
 - ▶ use a browser!
 - ▶ use curl!

Taking a look at status 13762161921

```
[raffi@tw-mbp13-raffi Desktop]$ curl http://api.twitter.com/1/statuses/show/13762161921.xml
<?xml version="1.0" encoding="UTF-8"?>
<status>
  <created_at>Tue May 11 01:58:56 +0000 2010</created_at>
  <id>13762161921</id>
  <text>...and another late night</text>
  <source>&lt;a href="http://mehack.com" rel="nofollow"&gt;@raffi's Test App&lt;/a&gt;</source>
  <truncated>false</truncated>
  <in_reply_to_status_id></in_reply_to_status_id>
  <in_reply_to_user_id></in_reply_to_user_id>
  <favorited>false</favorited>
  <in_reply_to_screen_name></in_reply_to_screen_name>
  <user>
    <id>8285392</id>
    <name>raffi</name>
    <screen_name>raffi</screen_name>
    <location>San Francisco, California</location>
    <description>Tinkering, writing, engineering, and breaking things on the @twitterapi.</description>
    <profile_image_url>http://a1.twimg.com/profile_images/364041028/raffi-headshot-casual_normal.png</profile_image_url>
    <url>http://www.mehack.com/</url>
  </user>
</status>
```

Dissecting a status object



DEPRECATED

```
{"id"=>12296272736,  
 "text"=>  
 "An early look at Annotations:  
 http://groups.google.com/group/twitter-api-announce/browse_thread/thread/fa5da2608865453",  
 "created_at"=>"Fri Apr 16 17:55:46 +0000 2010",  
 "in_reply_to_user_id"=>nil,  
 "source"=>"  
 <a href="http://www.mikemurphy.com/tweeting-with-ruby-on-rails.html">http://www.mikemurphy.com/tweeting-with-ruby-on-rails.html</a>"}
```

The tweet's unique ID. These IDs are roughly sorted & developers should treat them as opaque (<http://bit.ly/dCkppc>).

Text of the tweet.
Consecutive duplicate tweets are rejected. 140 character max (<http://bit.ly/4ud3he>).

The ID of an existing tweet that

Tweet's creation date.

```
"user"=>
  "id"=>6253282,
  "screen_name"=>"twitterapi",
  "name"=>"Twitter API",
  "description"=>
    "The Real Twitter API. I tweet about API changes, service issues and
    happily answer questions about Twitter and our API. Don't get an answer? It's on my website.",
  "url"=>"http://apiwiki.twitter.com",
  "location"=>"San Francisco, CA",
  "profile_background_color"=>"c1dfee",
  "profile_background_image_url"=>
    "http://a3.twimg.com/profile_background_images/59931895/twitterapi-background-new.png",
  "profile_background_tile"=>false,
  "profile_image_url"=>"http://a3.twimg.com/profile_images/689684365/api_normal.png",
  "profile_link_color"=>"0000ff",
  "profile_sidebar_border_color"=>"87bc44",
  "profile_sidebar_fill_color"=>"e0ff92",
  "profile_text_color"=>"000000",
  "created_at"=>"Wed May 23 06:01:13 +0000 2007",
  "contributors_enabled"=>true,
  "favourites_count"=>1,
  "statuses_count"=>1628,
  "friends_count"=>13,
  "time_zone"=>"Pacific Time (US & Canada)",
  "utc_offset"=>-28800,
  "lang"=>"en",
  "protected"=>false,
  "followers_count"=>100581,
  "geo_enabled"=>true,
  "notifications"=>false,
  "following"=>true,
  "verified"=>true,
  "contributors"=>[3191321],
  "geo"=>nil
```

The author of the tweet. This embedded object can get out of sync.

The author's user name.

The author's screen name.

The author's biography.

The author's URL.

The author's "location". This is a free-form text field, and there are no guarantees on whether it can be geocoded.

Rendering information for the author. Colors are encoded in hex values (RGB).

The creation date for this account.

Whether this account has contributors enabled (<http://bit.ly/50npuu>).

Number of favorites this user has.

Number of tweets this user has.

The timezone and offset (in seconds) for this user.

Number of users this user is following.

The user's selected language.

Whether this user is protected or not. If the user is protected, then this tweet is not visible except to "friends".

Number of followers for this user.

Whether this user has a verified badge.

DEPRECATED in this context

User has geo bit.ly/4pFY77.

characters. Only possible from SMS.

tweet author.

The fields you really need

- ▶ id - the unique identifier for the status
- ▶ text - the content of the status update
- ▶ created_at - the date the status was created at
- ▶ user/id - the unique identifier for the status creator
- ▶ user/screen_name - the name of the status creator
- ▶ user/profile_image_url - the URL to the creator's avatar

User objects

The “who”

Getting an user object

- ▶ You can do this with a screen name or an ID
- ▶ Construct the URL for users/show
- ▶ Grab it!
- ▶ (and, status objects do have embedded users)

Taking a look at @raffi

- ▶ Build the API URL
 - ▶ <http://api.twitter.com/1/users/show/raffi.xml>
 - ▶ <http://api.twitter.com/1/users/show/raffi.json>
 - ▶ [http://api.twitter.com/1/users/show.xml?
user_id=8285392](http://api.twitter.com/1/users/show.xml?user_id=8285392)
 - ▶ [http://api.twitter.com/1/users/show.json?
user_id=8285392](http://api.twitter.com/1/users/show.json?user_id=8285392)
- ▶ Just fetch it!

Taking a look at user @raffi

```
[raffi@tw-mbp13-raffi Desktop]$ curl http://api.twitter.com/1/users/show/raffi.xml
<?xml version="1.0" encoding="UTF-8"?>
<user>
  <id>8285392</id>
  <name>raffi</name>
  <screen_name>raffi</screen_name>
  <location>San Francisco, California</location>
  <description>Tinkering, writing, engineering, and breaking things on the
@twitterapi.</description>
  <profile_image_url>http://a1.twimg.com/profile_images/364041028/raffi-headshot-
casual_normal.png</profile_image_url>
  <url>http://www.mehack.com/</url>
  <protected>false</protected>
  <followers_count>2862</followers_count>
  <profile_background_color>C0DEED</profile_background_color>
  <profile_text_color>333333</profile_text_color>
  <profile_link_color>0084B4</profile_link_color>
  <profile_sidebar_fill_color>DDEEF6</profile_sidebar_fill_color>
  <profile_sidebar_border_color>C0DEED</profile_sidebar_border_color>
  <friends_count>424</friends_count>
  <created_at>Sun Aug 19 14:24:06 +0000 2007</created_at>
  <favourites_count>45</favourites_count>
  <utc_offset>-28800</utc_offset>
  <time_zone>Pacific Time (US & Canada)</time_zone>
```

The fields you really need

- ▶ id - the unique identifier for the user
- ▶ screen_name - the screen name of the user
- ▶ name - the name the user entered on his/her settings page
- ▶ profile_image_url - the URL to the creator's avatar
- ▶ description - the description the user entered on his/her settings page
- ▶ url - the URL the user entered on his/her settings page

Timelines

Getting lots of tweets

Timelines

- ▶ “Arrays” or “lists” of Tweets
 - ▶ in XML, wrapped with <statuses>...</statuses>
 - ▶ in JSON, regular array [. . .]
- ▶ Sorted (mostly) chronologically (hence “timeline”)
- ▶ When statuses are created in the system, they are fanned-out to timelines

Few different timelines for the user

- ▶ `user_timeline` - all the tweets you created
- ▶ `friends_timeline` - all the tweets that people you follow have created (sans native RTs)
- ▶ `home_timeline` - next generation `friends_timeline` in that it contains native RTs
- ▶ `mentions` - all tweets that @mention you
- ▶ Some don't require authentication and some do

Taking a look at @raffi's user_timeline

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://api.twitter.com/1/statuses/user\_timeline/raffi.xml
<?xml version="1.0" encoding="UTF-8"?>
<statuses type="array">
<status>
  <created_at>Tue May 11 02:24:33 +0000 2010</created_at>
  <id>13763485927</id>
  <text>@precipice woot!</text>
  <source>web</source>
  <truncated>false</truncated>
  <in_reply_to_status_id>13763157270</in_reply_to_status_id>
  <in_reply_to_user_id>236</in_reply_to_user_id>
  <favorited>false</favorited>
  <in_reply_to_screen_name>precipice</in_reply_to_screen_name>
  <user>
    <id>8285392</id>
    <name>raffi</name>
    <screen_name>raffi</screen_name>
    <location>San Francisco, California</location>
    <description>Tinkering, writing, engineering, and breaking things on the @twitterapi.</description>
    <profile_image_url>http://al.twimg.com/profile\_images/364041028/raffi-headshot-casual\_normal.png</profile_image_url>
    <url>http://www.mehack.com/</url>
    <protected>false</protected>
```

Using skip_user to save bandwidth

- Only user/id - have to lookup user data through other means

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://api.twitter.com/1/statuses/  
user\_timeline/raffi.xml?skip\_user=true  
<?xml version="1.0" encoding="UTF-8"?>  
<statuses type="array">  
<status>  
  <created_at>Tue May 11 02:24:33 +0000 2010</created_at>  
  <id>13763485927</id>  
  <text>@precipice woot!</text>  
  <source>web</source>  
  <truncated>false</truncated>  
  <in_reply_to_status_id>13763157270</in_reply_to_status_id>  
  <in_reply_to_user_id>236</in_reply_to_user_id>  
  <favorited>false</favorited>  
  <in_reply_to_screen_name>precipice</in_reply_to_screen_name>  
  <user>  
    <id>8285392</id>  
  </user>  
  <geo/>  
  <coordinates/>  
  <place xmlns:georss="http://www.georss.org/georss">  
    <id>ece7b97d252718cc</id>  
    <name>Kings Cross</name>
```

POSTing to the API

Causing change

Tweeting

Letting the world know your thoughts

status/update

- ▶ Just POST with a status parameter - *that's it!*

```
[raffi@tw-mbp13-raffi twurl (master)]$ ./bin/twurl -d "status=hey ho" /statuses/update.xml
<?xml version="1.0" encoding="UTF-8"?>
<status>
  <created_at>Tue May 11 03:39:42 +0000 2010</created_at>
  <id>13767250371</id>
  <text>hey ho</text>
  <source>&lt;a href="http://www.mehack.com" rel="nofollow">Background image uploading example</a></source>
  <truncated>false</truncated>
  <in_reply_to_status_id></in_reply_to_status_id>
  <in_reply_to_user_id></in_reply_to_user_id>
  <favorited>false</favorited>
  <in_reply_to_screen_name></in_reply_to_screen_name>
  <user>
    <id>8307492</id>
    <name>raffibot</name>
    <screen_name>raffibot</screen_name>
    <location>Doing the robot!</location>
    <description></description>
    <profile_image_url>http://a3.twimg.com/profile\_images/637865751/
```

Following people

Subscribing to people to get content

friendships/create

- ▶ Just POST with a id parameter - *that's it!*

```
[raffi@tw-mbp13-raffi twurl (master)]$ ./bin/twurl -d "id=3191321" /friendships/create.xml
<?xml version="1.0" encoding="UTF-8"?>
<user>
  <id>3191321</id>
  <name>Marcel Molina</name>
  <screen_name>noradio</screen_name>
  <location>San Francisco, CA</location>
  <description>Engineer at Twitter on the @twitterapi team obsessed with running. In a past life I was a member of the Rails Core team & 37signals.</description>
  <profile_image_url>http://a3.twimg.com/profile\_images/53473799/marcel-euro-rails-conf\_normal.jpg</profile_image_url>
  <url>http://project.ioni.st</url>
  <protected>false</protected>
  <followers_count>288034</followers_count>
  <profile_background_color>9AE4E8</profile_background_color>
  <profile_text_color>333333</profile_text_color>
  <profile_link_color>0084B4</profile_link_color>
  <profile_sidebar_fill_color>DDFFCC</profile_sidebar_fill_color>
  <profile_sidebar_border_color>BDDCAD</profile_sidebar_border_color>
  <friends_count>494</friends_count>
```

DMing people

Tweeting to one, instead of tweeting to many

direct_messages/new

- ▶ Just POST with a text and user parameter - *that's it!*

```
[raffi@tw-mbp13-raffi twurl (master)]$ ./bin/twurl -d "text=yo&user=raffi" /  
direct_messages/new.xml  
<?xml version="1.0" encoding="UTF-8"?>  
<direct_message>  
  <id>1118562319</id>  
  <sender_id>8307492</sender_id>  
  <text>yo</text>  
  <recipient_id>8285392</recipient_id>  
  <created_at>Tue May 11 03:53:25 +0000 2010</created_at>  
  <sender_screen_name>raffibot</sender_screen_name>  
  <recipient_screen_name>raffi</recipient_screen_name>  
  <sender>  
    <id>8307492</id>  
    <name>raffibot</name>  
    <screen_name>raffibot</screen_name>  
    <location>Doing the robot!</location>  
    <description></description>  
    <profile_image_url>http://a3.twimg.com/profile\_images/637865751/raffibot\_normal.jpg</profile_image_url>  
    <url></url>  
    <protected>false</protected>
```

Search API

Sifting through large amounts of Tweets

Search API

- ▶ History
 - ▶ Summize was purchased in 2008
 - ▶ built their own real-time search engine
- ▶ Still a separate system from main Twitter stack
 - ▶ separate database and indices (only goes back 10-14 days)
 - ▶ different representations of data
 - ▶ different overall status object
 - ▶ **different user IDs**
 - ▶ different output formats (Atom, instead of XML, and JSON)
- ▶ Search is a corpus of *best quality* Tweets

Running a simple query

- ▶ Just GET with a q parameter - *that's it!*

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://search.twitter.com/search.atom?q=leeds
<?xml version="1.0" encoding="UTF-8"?>
<feed xmlns:google="http://base.google.com/ns/1.0" xml:lang="en-US"
      xmlns:openSearch="http://a9.com/-/spec/opensearch/1.1/" xmlns="http://www.w3.org/2005/Atom" xmlns:twitter="http://api.twitter.com/">
  ...
  <entry>
    <id>tag:search.twitter.com,2005:13779639419</id>
    <published>2010-05-11T09:42:53Z</published>
    <link type="text/html" href="http://twitter.com/Naomi631/statuses/13779639419" rel="alternate"/>
    <title>Uniqua brand provides full package to design a website: Web Design Leeds helps in designing a website to stay in t... http://bit.ly/a6Ux3f</title>
    <content type="html">Uniqua brand provides full package to design a website: Web Design &lt;b&gt;Leeds&lt;/b&gt; helps in designing a website to stay in t... &lt;a href="http://bit.ly/a6Ux3f"&gt;</a></content>
    <updated>2010-05-11T09:42:53Z</updated>
    <link type="image/png" href="http://s.twimg.com/a/1273278095/images/default\_profile\_6\_normal.png" rel="image"/>
    <twitter:geo>
    </twitter:geo>
```

Advanced operators

- ▶ from - restrict results to tweets from a particular screen name
- ▶ result_type=popular - find both “best” tweets and temporally relevant tweets
- ▶ Textual operators
 - ▶ OR to combine queries - <http://search.twitter.com/search.atom?q=leeds+OR+london>
 - ▶ - to negate - <http://search.twitter.com/search.atom?q=leeds+-from%3Aimran>

What @raffi usually does

- ▶ Use the web interface on search.twitter.com to construct the query
- ▶ Tweak it and shorten it
- ▶ Switch the result format to be in API compatible format
- ▶ Use that!

Advanced Twitter Search

http://search.twitter.com/advanced

Twitter

Enter your query

Search Advanced Search

Advanced Search

Use this form to automatically construct your query. (Alternatively, you can type [search operators](#) directly into the search box.)

Find tweets based on...

Words

All of these words:

This exact phrase:

Any of these words:

None of these words:

This hashtag:

Written in: (persistent)

People

From this person:

To this person:

Referencing this person:

Places

Near this place:

Within this distance: miles kilometers

Dates

Since this date:

Search

The screenshot shows the Twitter Advanced Search interface. The search parameters are set as follows:

- Words:** All of these words: leeds twitter
- People:** From this person: imran
- Places:** Near this place (no specific location entered)
- Dates:** Since this date (no specific date entered)

leeds twitter from:imran – Twitter Search

<http://search.twitter.com/search?q=&ands=leeds+twitter&phrase=&ors=¬s=&tag=&la=...imran&to=&ref=&near=&within=15&units=mi&since=&until=&rpp=15>

 leeds twitter from:imran Advanced Search

Results for leeds twitter from:imran 0.04 seconds

 [Imran](#): nosing through [@raffi](#)'s slides on **twitter** annotation from [@warblecamp...](#) lookin fwd to his **leeds** trip on weds! {<http://imrn.me/c536E>} **#LSx2010**
2 days ago from *Tweetie* · [Reply](#) · [View Tweet](#)

 [Imran](#): **twitter's** [@raffi](#) will be in **leeds** next tues afternoon running a free workshop on "developing for **twitter**" {<http://imrn.me/bbHgNT>} **#LSx2010**
3 days ago from *Tweetie* · [Reply](#) · [View Tweet](#)

 [Imran](#): wanna meet **twitter's** [@raffi](#), see 15 [@ignite](#) talks or join **leeds'** 4th barcamp? head over to the [#LSx2010](#) schedule! <http://lsx2010.com>
4 days ago from *Tweetie* · [Reply](#) · [View Tweet](#)

 [Imran](#): booking a hotel for [@raffi](#)'s first trip to **leeds**...details on his "developing for **twitter**" workshop & keynote to follow :) [#LSx2010](#)
5 days ago from *Tweetie* · [Reply](#) · [View Tweet](#)

0.04 seconds

[!\[\]\(5abcb4aca529c4bce8febc6484d78472_img.jpg\) Feed for this query](#)
[!\[\]\(56c44ce70feec64de17a3eb93ffac6a1_img.jpg\) Tweet these results](#)

Show tweets **written in:**

Trending topics:

- [#nowplaying](#)
- [Bonamana](#)
- [#ausbudget](#)
- [#DamnItsTrue](#)
- [#1thingaboutme](#)
- [Gibo](#)
- [West Ham](#)
- [#TLF](#)
- [#np](#)
- [#Bottomlineis](#)

Page 1

Nifty queries:

- [cool filter:links](#)
- ["is down"](#)
- [movie :\)](#)
- ["happy hour" near:SF](#)
- [#haiku](#)
- ["listening to"](#)
- [love OR hate](#)
- [flight :\(](#)

Loading "http://search.twitter.com/search?q=&ands=leeds+twitter&phrase=&ors=¬s=&tag=&la=...imran&to=&ref=&near=&within=15&units=mi&since=&until=&rpp=15", completed 9 of 10 items

Trim down the URL

- ▶ http://search.twitter.com/search?q=&ands=leeds+twitter&phrase=&ors=¬s=&tag=&lang=all&from=imran&t_o=&ref=&near=&within=15&units=mi&since=&until=&rpp=15
- ▶ Strip down to only where our custom data is
 - ▶ ands - where the query is
 - ▶ from - restrict it to @imran
 - ▶ make the format atom to get an API friendly response
- ▶ <http://search.twitter.com/search.atom?ands=leeds+twitter&from=imran>

Running the custom query

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl "http://search.twitter.com/search.atom?ands=leeds+twitter&from=imran"  
<?xml version="1.0" encoding="UTF-8"?>  
<feed xmlns:google="http://base.google.com/ns/1.0" xml:lang="en-US"  
xmlns:openSearch="http://a9.com/-/spec/opensearch/1.1/" xmlns="http://www.w3.org/2005/  
Atom" xmlns:twitter="http://api.twitter.com/">  
...  
<entry>  
  <id>tag:search.twitter.com,2005:13635764900</id>  
  <published>2010-05-09T00:00:05Z</published>  
  <link type="text/html" href="http://twitter.com/Imran/statuses/13635764900"  
rel="alternate"/>  
  <title>nosing through @raffi's slides on twitter annotation from  
@warblecamp&#8230;lookin fwd to his leeds trip on weds! {http://imrn.me/c536Ej}  
#LSx2010</title>  
  <content type="html">nosing through &lt;a href="http://twitter.com/  
raffi"&gt;@raffi&lt;/a&gt;&amp;apos;s slides on &lt;b&gt;twitter&lt;/b&gt;  
annotation from @warblecamp&#8230;lookin fwd to his &lt;b&gt;leeds&lt;/b&gt; trip on  
weds! &lt;a href="http://imrn.me/c536Ej"&gt;http://imrn.me/c536Ej&lt;/a&gt;  
&lt;a href="http://search.twitter.com/search?q=%23LSx2010"  
onclick="pageTracker._setCustomVar(2, 'result_type', 'recent',  
3);pageTracker._trackPageview('/intra/hashtag/#LSx2010');#LSx2010&lt;/a&gt;</  
content>  
  <updated>2010-05-09T00:00:05Z</updated>  
  <link type="image/png" href="http://a3.twimg.com/profile_images/421133727/
```

Trends API

What's going on right now?

Trends API

- ▶ Trending topics are used for content discovery - powers the front page and logged out experience of `twitter.com`
- ▶ API provides both global trends and local trends
- ▶ Timescale
 - ▶ global trends are provided for “now”, and summaries of the past day and week
 - ▶ local trends are only provided for “now”

Twitter

http://twitter.com/ Loading... X Google

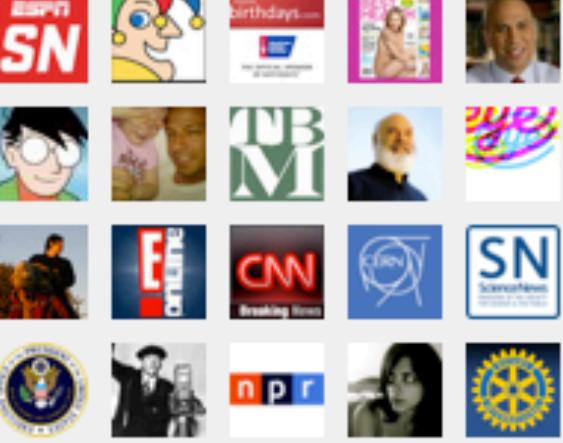
Search for a keyword or phrase... Search

Have an account? Sign in

Discover what's happening right now, anywhere in the world

other's Day Labour TRENDING TOPICS RIP Lena Horne Gordon Brown Adam Boulton Lena Horne Elena Kag...

See who's here

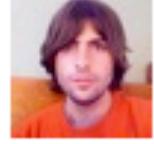


Friends and industry peers you know. Celebrities you watch. Businesses you frequent. Find them all on Twitter.

Top Tweets View all >

 **dracos** A compare and contrast of the two Sun editions with differences highlighted: [http://www.dracos.co.uk/...](http://www.dracos.co.uk/) 34 minutes ago

 **jonathanforeman** "Am I not destroying my enemies when I make friends of them?" -Abraham Lincoln 10 hours ago

 **rcschwartzman** The new ROONEY single, I CAN'T GET ENOUGH, will be out tomorrow!!!!!!!!!!!! Available on iTunes and Amazon! 8 hours ago

 **jimparedes** Predicting the new world order-- If jejomar wins,

© 2010 Twitter About Us Contact Blog Status Goodies API Business Help Jobs Terms Privacy Language: English ▾

Loading "http://twitter.com/", completed 6 of 7 items

Twitter / Home

raffi | Switch account ▾

 favstar100 @twitter Congrats on your 100th tweet! RTing:
<http://favstar.fm/users/twitter/status/13737532357>
5 minutes ago via Favstar.FM in reply to twitter

 rmchase How big is Gulf oil spill? Use this tool to overlay spill onto any geography you choose. <http://is.gd/c41x0> #ilovetheinternet
10 minutes ago via Seesmic

 farhan RT @londontech @londonhackspace why have you blocked me from following you from @farhan ?? <--does anyone know who's behind @londonhackspace
12 minutes ago via TweetDeck

 lachlanhardy Rant deployed and I'm now happily at #rorosyd, drinking @_martinS_ generous tab. Thanks, Martin!
16 minutes ago via Echofon

 lachlanhardy RT @timriley: Thanks for listening to my facebook/oauth talk, #rorosyd. Slides are online:
<http://bit.ly/9iy0s9>
19 minutes ago via Echofon

 farhan RT @FirstSigns: We're 8 this month and very grateful to anyone who can spare 99p for a virtual balloon
<http://blog.firstsigns.org.uk/Uz>
26 minutes ago via TweetDeck

 Gelada [chilling] RT @zerohedge: European Banks Now Feverishly Betting Against Euro, As Bailout Fails, Gold Surges
<http://tinyurl.com/2uyt3vg>
about 1 hour ago via Tweetie
Retweeted by monkchips and 2 others

 Twitter_Tips r/t Hacked! Even Facebook Board Members Don't Know How To Keep Their Accounts Safe:
<http://j.mp/dpwuvn>
29 minutes ago via HootSuite

Send us your feedback

@Chirp/speakers
@twitterapi/meetup-20100301
@doctor/chirp
@Mpegg/google-maps-mashups
@twitter/team

New list | View all

Trending: London

Change

Malcolm Rifkind
#ukelection
#bottomlineis
#1thingaboutme
Adam Boulton
Lib-Lab
Bilic
Capello Index
Alistair Campbell
Blunkett

Following

RSS feed

WOEIDs

- ▶ “Where on Earth Identifiers”
- ▶ <http://developer.yahoo.com/geo/>
- ▶ Provides “stable” and “language neutral” identifiers for places in the world
- ▶ Twitter has the World (WOEID of 1), and a series of countries and cities in its trends database

Fetching global trends

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://api.twitter.com/1/trends/1/current.xml
<?xml version="1.0" encoding="UTF-8"?>
<matching_trends type="array">
  <trends as_of="2010-05-11T10:35:25Z">
    <locations>
      <location>
        <woeid>1</woeid>
        <name>Earth</name>
      </location>
    </locations>
    <trend query="Bonamana" url="http://search.twitter.com/search?q=Bonamana">Bonamana</trend>
    <trend query="%23ausbudget" url="http://search.twitter.com/search?q=%23ausbudget">#ausbudget</trend>
    <trend query="%231thingaboutme" url="http://search.twitter.com/search?q=%231thingaboutme">#1thingaboutme</trend>
    <trend query="%23damnitstrue" url="http://search.twitter.com/search?q=%23damnitstrue">#damnitstrue</trend>
    <trend query="Binay" url="http://search.twitter.com/search?q=Binay">Binay</trend>
    <trend query="Boulton" url="http://search.twitter.com/search?q=Boulton">Boulton</trend>
    <trend query="Kagan" url="http://search.twitter.com/search?q=Kagan">Kagan</trend>
    <trend query="Zola" url="http://search.twitter.com/search?q=Zola">Zola</trend>
    <trend query="McGlenan" url="http://search.twitter.com/search?q=McGlenan">McGlenan</trend>
```

Finding locations that have trends

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://api.twitter.com/1/trends/available.xml
```

```
<?xml version="1.0" encoding="UTF-8"?>
<locations type="array">
<location>
  <woeid>23424900</woeid>
  <name>Mexico</name>
  <placeTypeName code="12">Country</placeTypeName>
  <country type="Country" code="MX">Mexico</country>
  <url>http://where.yahooapis.com/v1/place/23424900</url>
</location>
<location>
  <woeid>23424803</woeid>
  <name>Ireland</name>
  <placeTypeName code="12">Country</placeTypeName>
  <country type="Country" code="IE">Ireland</country>
  <url>http://where.yahooapis.com/v1/place/23424803</url>
</location>
<location>
  <woeid>23424975</woeid>
  <name>United Kingdom</name>
  <placeTypeName code="12">Country</placeTypeName>
  <country type="Country" code="GB">United Kingdom</country>
  <url>http://where.yahooapis.com/v1/place/23424975</url>
</location>
```

Locations that have trends now

- ▶ Earth (1)
- ▶ Countries - Mexico (23424900), Ireland (23424803), United Kingdom (23424975), United States (23424977), Brazil (23424768), Canada (23424775)
- ▶ Cities - Sao Paulo (455827), Baltimore (2358820), Boston (2367105), Washington (2514815), New York (2459115), San Antonio (2487796), Chicago (2379574), Philadelphia (2471217), San Francisco (2487956), Los Angeles (2442047), Houston (2424766), Atlanta (2357024), Fort Worth (2406080), Dallas (2388929), Seattle (2490383), London (44418)

Fetching trends for London

```
[raffi@tw-mbp13-raffi twurl (master)]$ curl http://api.twitter.com/1/trends/44418/current.xml
<?xml version="1.0" encoding="UTF-8"?>
<matching_trends type="array">
  <trends as_of="2010-05-11T10:43:26Z">
    <locations>
      <location>
        <woeid>44418</woeid>
        <name>London</name>
      </location>
    </locations>
    <trend query="Malcolm+Rifkind" url="http://search.twitter.com/search?q=Malcolm+Rifkind">Malcolm Rifkind</trend>
    <trend query="%23ukelection" url="http://search.twitter.com/search?q=%23ukelection">#ukelection</trend>
    <trend query="%231thingaboutme" url="http://search.twitter.com/search?q=%231thingaboutme">#1thingaboutme</trend>
    <trend query="%23bottomlineis" url="http://search.twitter.com/search?q=%23bottomlineis">#bottomlineis</trend>
    <trend query="Adam+Boulton" url="http://search.twitter.com/search?q=Adam+Boulton">Adam Boulton</trend>
    <trend query="Lib-Lab" url="http://search.twitter.com/search?q=Lib-Lab">Lib-Lab</trend>
    <trend query="Bilic" url="http://search.twitter.com/search?q=Bilic">Bilic</trend>
```

Streaming API

I need it now, now, now, now, now

Streaming API

- ▶ Maintain a persistent connection to  servers
- ▶ Get pushed a tweet that matches your predicate in “real-time”
- ▶ Most useful for server to server integrations
- ▶ Beginning to experiment with server to client integrations

Get a sample of all the tweets

- ▶ Use curl for a really simple proof-of-concept client
- ▶ [http://stream.twitter.com/1/statuses/
sample.xml](http://stream.twitter.com/1/statuses/sample.xml)
- ▶ Requires basic authorization (username and password)
<http://stream.twitter.com/1/statuses/sample.xml>
- ▶ Only one connection per username

Get the tweets from certain users

- ▶ <http://stream.twitter.com/1/statuses/filter.xml>
- ▶ Can pass in a list of user IDs
 - ▶ up to 400 users (passed as follow with CSV IDs)
 - ▶ get their tweets as they are getting created

Get the tweets containing a certain word

- ▶ <http://stream.twitter.com/1/statuses/filter.xml>
- ▶ Can pass in a list of words
 - ▶ up to 200 users (passed as track with CSV IDs)
 - ▶ e.g. Twitter will match TWITTER, twitter, “Twitter”, twitter., #twitter, and @twitter
 - ▶ get tweets as they are getting created

The team



Questions?

Follow me at
twitter.com/raffi

