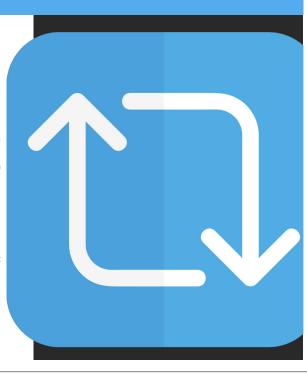
# WHAT ARE RETWEETS?

A retweet allows Twitter user store broad cast specific twee ts of interest by incorporatingal I or part of the original tweet in to their own.

We hypothesize that retwe etsplayar ole in introducin gnew connections to a network, so that individuals who do not follow an individual may see ret weets of their tweets and eventually become followers



## WHAT ARE RETWEETS?



A Retweet is an action taken by a Twitter user to share another user's Tweet without alteration, using Twitter's explicit Retweet functionality.

A Retweet retains information about the user who posted the original Tweet, as well as the u ser who Retweeted them.

Retweets are an important part of Twitter's platform — they permit content to be shared rapidly and with attribution, and are the most easily measured form of content engagement on the platform. Many social analytics tools use the number of Retweets a particular Tweet receives in calculating its impact or reach (i.e. its importance). However, to do so, your app must be able to accurately identify Retweets.

# HOW TO IDENTIF Y A RETWEET

For example, here is an excerpt from the root-level of a Retweet:

```
{
    "id": "tag:search.twitter.com,2005:299935329132105728",
    "objectType": "activity",
    "actor": {...},
    "verb": "share",
    ...
}
```

And here is an original Tweet:

```
{
    "id": "tag:search.twitter.com,2005:403224522679009280",
    "objectType": "activity",
    "actor": {...},
    "verb": "post",
    ...
}
```

#### I NTEGRATI NG RETWEETS

Each Retweet contains two layers:1) an out er layer, which holds data related to the Re tweet action itself, and the user whoperf or med the Retweet, and 2) and innerla yer which holds data about the original Tweet, including data about the user who post ed it. The outer layer exists at the root-level of the JSON Tweet object—therootlevel—while the inner layer is contained with in the root-level "object" field. More clearly, the Retweet is a Tweet

object, which contains another whole Twee t object within the "object" field.



## **EXAMINING** RETWEET **PATTERNS**

 $The approach we'll take to find the most popular \ retweets\ i$ s to simply iterate over each status update and store out the re tweet count, originator of the retweet, and text of the retweet if the status update is a retweet.

```
retweets = [
            # Store out a tuple of these three values ...
            (status['retweet_count'],
             status['retweeted_status']['user']['screen_name'],
             status['text'])
            # ... for each status ...
            for status in statuses
            # ... so long as the status meets this condition.
                if status.has_key('retweeted_status')
# Slice off the first 5 from the sorted results and display each item in the tuple
pt = PrettyTable(field_names=['Count', 'Screen Name', 'Text'])
[ pt.add_row(row) for row in sorted(retweets, reverse=True)[:5] ]
pt.max_width['Text'] = 50
pt.align= 'l'
print pt
```

Count	Screen Name	Text
23	hassanmusician	RT @hassanmusician: #MentionSomeoneImportantForYou     God.
21	HSweethearts	RT @HSweethearts: #MentionSomeoneImportantForYou     my high school sweetheart ♥
15	LosAlejandro_   	RT @LosAlejandro_: ¿Nadie te menciono en   "#MentionSomeoneImportantForYou"? JAJAJAJAJAJAJAJA   JAJAJAJAJAJAJAJAJAJAJAJAJAJAJAJAJA Ven,
9	SCOTTSUMME   	RT @SCOTTSUMME: #MentionSomeoneImportantForYou My
7	degrassihaha	RT @degrassihaha: #MentionSomeoneImportantForYou I   can't put every Degrassi cast member, crew member,   and writer in just one tweet

## HI STOGRAMS

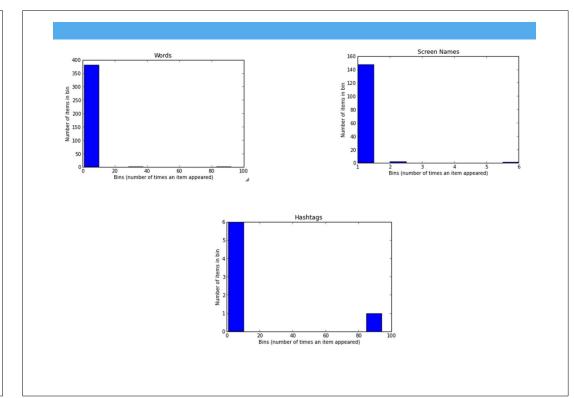


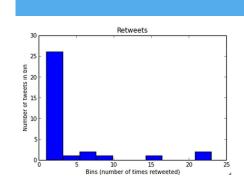
#### **FREQUENCY REPRESENTATION**

A histogram is designed for precisely this purpo seandprovides a convenient visualization for displaying tabulated frequencies as adjacent rect angles, where the area of each rectangle is a me

of the data values that fall within that particular

Ahistogramgivesusinsightintothe underlyi ngfrequency distribution, with the x-axis corresp onding to a range for words that each have a freq uency within that range and the y-axis correspon ding to the total frequency of all words that appe ar within that range.





#### **Your Tweet activity**

Your Tweets earned **1,825 impressions** over the last **24 hours** 



#### CODE TO GENERAT EHI STOGRAMS

We use IPython Notebook

### CODE TO GENERAT EHI STOGRAMS

```
# Using underscores while unpacking values in
# a tuple is idiomatic for discarding them

counts = [count for count, _, _ in retweets]
plt.hist(counts)
plt.title("Retweets")
plt.xlabel('Bins (number of times retweeted)')
plt.ylabel('Number of tweets in bin')
print counts
```

