Anonymous_youtube

Unknown Author

January 22, 2014

1 Exploration of the Anonymous videos on Youtube.

1.1 How the initial data was generated - Davide's dataset - generate in July 2013

Here's what Davide wrote in his email:

The query: "anonymous internet freedom"

Some notes: I have just discovered that some changes have been made to YT api, so the script was not able to retreive keywords associated with videos (that can be interesting for semantic network analysis purposed) and that videos descriptions are truncated. I will try to figure out whether is possible to fix the first shortcome; for the second, luckly the "related videos" descriptions are still complete..and usually there is wide redundancy, so maybe it can be easily overcame (consider that in this sample I restricted related videos to 25 for each); the comments are also in this case limited to 25; videos are ordered by relevance computed by Youtube itself; users are limited to original content submitters; the string I input as keyword was only "anonymous internet freedom".

- (1) retrieve up to 1000 videos queried by keywords (including username,date,category,n of favorites, n of views,duration, tags and description)-maybe it is possible to extend the 1000 limit, or by the way it can be somehow done with the following module-
- (2) reconstruct the network of "related videos" for each video retrieved (with the metadata above)-the alghoritm for matching related videos is of course not known, but as far as I understood it should be both related to tags and to users' behaviour: the more two videos are viewed in sequence, the more related they'll be... so it can provide interesting insights on network of content-
- (3) scrape comments related to the videos/related videos retrieved (including user name, time and parent comments) The geo info are quite tricky cause there is no "nationality" associated to the video, but the language...at least not provided with the api! But maybe something can be inferred with a heuristic approach (nations mentioned in the title/description/comments)

1.2 Generating the data from Youtube API – Adrian's dataset

Davide's dataset is really useful, but I found it hard to replicate the same results. The scripts I wrote to query the YT api bring back different results. This needs to be investigated. Also because Google/Youtube only returns a maximum of 1000 results, we need to think of ways of 'tiling' the queries to get around this limitation. At least, so that we can be reasonably satisfied we are getting all the relevant videos.

Felipe: use list of campaigns to script a set of queries that build a bigger dataset

```
%load ext autoreload
        %autoreload 2
In [1]:
         import pandas as pd
        import YT_api_generate as yt
In [2]:
        from pylab import *
        import seaborn
        from IPython.display import HTML
from IPython.display import YouTubeVideo
        pd.set_option("display.max_columns", 6)
        pd.set_option("display.max_rows", 15)
        pd.set_option("display.notebook_repr_html", True)
         from optparse import OptionParser
        an_f = pd.ExcelFile('data/anonymouys internet freedom - VIDEOS.xls')
In [86]: an_dict = {name:an_f.parse(name) for name in an_f.sheet_names}
        video_df = an_dict['VIDEOS']
        #clean up data a bit
        video_df.VIEWS = video_df.VIEWS.replace('None', 0)
        print (video_df.shape)
        print (video_df.head(10))
        <class 'pandas.core.frame.DataFrame'>
        Int64Index: 10 entries, 0 to 9
        Data columns (total 11 columns):
                        10 non-null values
        ID
        TITLE
                        10 non-null values
        URL
                       10 non-null values
        USER
                       10 non-null values
                        10 non-null values
        DATA
        CATEGORY
                      10 non-null values
        FAVOURITES
                      10 non-null values
                       10 non-null values
        VIEWS
        DURATION
                        10 non-null values
        KEYWORDS
                        0 non-null values
        DESCRIPTION
                       10 non-null values
        dtypes: float64(2), object(9)
        /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
        x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has
        been deprecated.
          warnings.warn(d.msg, DeprecationWarning)
        /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
        x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has
        been deprecated.
          warnings.warn(d.msg, DeprecationWarning)
```

The dataset has about a 1000 rows, but many seem duplicates. That is, the rows are literally identical in every field So cutting those out: ...

```
video_df = video_df.drop_duplicates()
print(video_df.shape)
print('Users: ', len(video_df.USER.unique()))
print('Titles: ', len(video_df.TITLE.str.encode('utf-8').unique()))
print('IDS: ', len(video_df.ID.unique()))
```

```
(289, 11)
('Users: ', 246)
('Titles: ', 283)
('IDS: ', 289)
```

(990, 8)

There are 908 titles in the Beraldo dataset, of which **289** are unique. There are 246 users – people (robots?) who upload videos.

Comparing Davide's results with the ones I get from the Youtube API:

```
df_am = yt.youtube_search(query='anonymous,internet,freedom', max_results=1000, with_s
In [7]: getting another page of results ... 50
       getting another page of results ... 100
       getting another page of results ... 150
       getting another page of results ... 200
       getting another page of results ... 250
       getting another page of results ... 300
       getting another page of results ... 350
       getting another page of results ... 400
       getting another page of results ... 450
       getting another page of results ... 500
       getting another page of results ... 540
       getting another page of results ... 590
       getting another page of results ... 640
       getting another page of results ... 690
       getting another page of results ... 740
       getting another page of results ... 790
       getting another page of results ... 840
       getting another page of results ... 890
       getting another page of results ... 940
       getting video statistics: 50
       getting video statistics: 100
       getting video statistics: 150
       getting video statistics: 200
       getting video statistics: 250
       getting video statistics: 300
       getting video statistics: 350
       getting video statistics: 400
       getting video statistics: 450
       getting video statistics: 500
       getting video statistics: 550
       getting video statistics: 600
       getting video statistics: 650
       getting video statistics: 700
       getting video statistics: 750
       getting video statistics: 800
       getting video statistics: 850
       getting video statistics: 900
       getting video statistics: 950
       getting video statistics: 990
       (990, 14)
```

```
In [79]: df_am.columns
df_am.drop_duplicates(inplace=True, cols='videoId')
print(df_am.shape)
print 'Unique ids: ', len(df_am.videoId.unique())
(525, 23)
Unique ids: 525
```

So not a huge difference in numbers – 525 vs 289. But are they the same videos more or less?

```
davide_set = set(video_df.ID.tolist())
    adrian_set = set(df_am.videoId.tolist())
    comb_id = davide_set.union(adrian_set)
    intersecting_id = adrian_set.intersection(davide_set)
    adrian_unique = adrian_set.difference(davide_set)
    davide_unique = davide_set.difference(adrian_set)
    print('Set of combined video ids: ' + str(len(comb_id)))
    print('They have ' + str(len(intersecting_id)) + ' in common')
    print('Davide datatset has ' + str(len(davide_unique)) + ' that Adrian doesnt')
    print('Adrian has ' + str(len(adrian_unique)) + ' that Davide doesnt')
    Set of combined video ids: 707
    They have 107 in common
    Davide datatset has 182 that Adrian doesnt
Adrian has 418 that Davide doesnt
```

So it looks like there is in **poor overlap** between them. Altogether there are around 700 unique video ids, but 25% are common to both. The rest are different. How to explain this? If Davide used the Youtube API like I did, does this mean that Google is giving different results to different people? Or that the results depend on when/where you run the query? The question of getting the same data is maybe only an interesting methodological wrinkle, or it might be something worth investigating in its own right.

I'll leave this aside for the moment, and just combine them both into one dataset.

```
In [91]: #combine all the ids and titles from Davide and Adrian's results
video_df['videoId'] = video_df.ID
video_df['title'] = video_df.TITLE.str.encode('utf-8')
video_df['duration_second'] = video_df.DURATION

video_comb = pd.concat([df_am[['videoId', 'title', 'duration_second']], video_df[['video_comb = video_comb.drop_duplicates()
video_comb.shape
(715, 3)
Out [91]:
```

2 The uniqueness of the videos

But once all the dupicates are removed, it seems we are left with a unique list of videos, and **they are not mirrored very much at all.** Is that right? Video-IDs means that there is no real mirroring? A key question, because it would undermine the whole mirroring strategy.

Here are the mirrored videos:

```
ANONYMOUS NO MORE! Anonymous Comments Online to be BANNED from the Internet 2
LulzSec & Anonymous Declare War Against Government! Operation Anti Security '#AntiSec'! Leak Info! 2
Christopher Hitchens Wishful Thinking vs Evidence 2008) 2
freedom 2
EU & 22 Countries Sign ACTA! Anonymous Start #TwitterCensored! Twitter Start Censorship 2012! 2
Length: 31, dtype: int64
```

That's it in combined's dataset: 5 copies of 'Anonymous Declaration of Freedom,' and 2 of the rest. 5 mirrored videos, and not highly mirrored. Here there is a bit more duplication, and some overlap. There are also some time-specific results – PRISM and Snowden probably arrives after Davide has generated his dataset. But still only 8 mirrored videos.

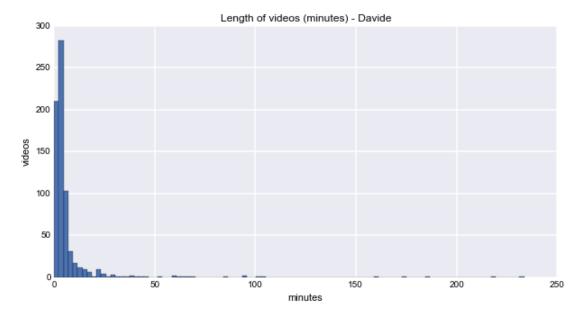
I guess we should discuss this Adam. Should we look for more hidden duplicates? Is it something to do with the youtube search? Are there other ways of identifying videos associated with Anonymous that need to look into.

2.1 The length of the videos

Not sure what the length of videos tells us. Something about the kind of object we are dealing with. Also, I guess length affects mirroring. Would many people upload a 60 minute documentary?

```
# renaming dataframes
          video_df = video_comb
In [95]:
          duration = video_df.duration_second.order().tolist() duration = [d/60 \text{ for } d \text{ in } duration]
          f = pylab.figure(figsize=(10,5))
          sp=f.add\_subplot(1,1,1)
          h=sp.hist(duration, bins=100)
print('Less than 10 minutes: '+ str(float(sum(video_df.duration_second/60 < 10))/video
          sp.set_title('Length of videos (minutes) - Davide')
          sp.set_xlabel('minutes')
          sp.set_ylabel('videos')
          #adrian's videos
          # df_am = yt.format_durations(df_am)
          # df_am.columns
          # #df_am['duration_second'].hist(bins=100)
          # sp2=f.add_subplot(1,2,2)
          # sp2.set_title('Length of videos (minutes) - Adrian')
          # sp2.set_xlabel('minutes')
           # sp2.set_ylabel('videos')
          # dur_min = df_am.duration_second/60
# h2 = sp2.hist(dur_min, bins=100)
          YouTubeVideo(video_df.videoId.iloc[1])
          Less than 10 minutes: 88.951048951%
          <IPython.lib.display.YouTubeVideo at 0x6cec650>
```

Out [95]:



Again, the differences between the datasets. But can't see any pattern here.

In general, it looks like most of the videos are relatively short (less than 10 minutes). Does duration correlate with either viewing or duplication?

2.2 Felipe: EVERYTHING BELOW HERE IS NOT RELEVANT AT THE MOMENT OR NEEDS FIXING

```
fig=figure(dpi=200)
sp = fig.add_subplot(1,2,1)
sp.scatter(video_df.DURATION/60, video_df.VIEWS, s=5,marker='o')
sp.set_title('Duration vs Views')
sp.set_xlabel('Duration (minutes)')
sp.set_ylabel('Views')
sp.set_xlim(0, 200)
sp.set_ylim(0, 1e7)

hms =[re.sub('H|M', ':', s) for s in [re.sub('PT|S', '', t) for t in df_am.duration]
sp = fig.add_subplot(1,2,2)
sp.scatter(video_df.DURATION/60, video_df.VIEWS, s=5,marker='o')
sp.set_title('Duration vs Views')
sp.set_xlabel('Duration (minutes)')
sp.set_ylabel('Views')
sp.set_ylabel('Views')
sp.set_xlim(0, 200)
sp.set_ylim(0, 1e7)
```

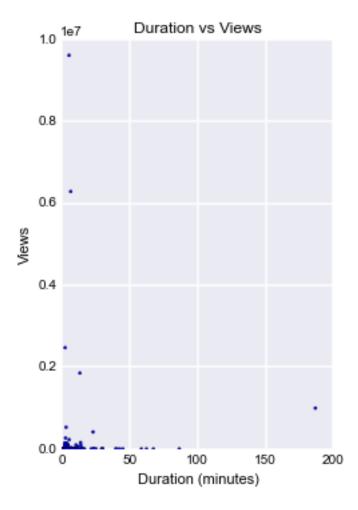
NameError Traceback (most recent call last)

```
<ipython-input-18-657643217319> in <module>()
  8 sp.set_ylim(0, 1e7)
  9
```

```
---> 10 hms = [re.sub('H|M', ':', s) for s in [re.sub('PT|S', '', t) for t in df_am.duration]]

11
12 sp = fig.add_subplot(1,2,2)
```

NameError: name 're' is not defined



At a glance, it looks like the longer videos are viewed much less. Very short videos are not viewed much either. But this doesn't take into account the fact that there are many more short videos.

3 Viewing figures

Another way to look at videos – more in terms of reception. Does anything stand out from the viewing figures?

As usually, totally different results from the Adrian dataset - maximum view is 66 million, not 14 million

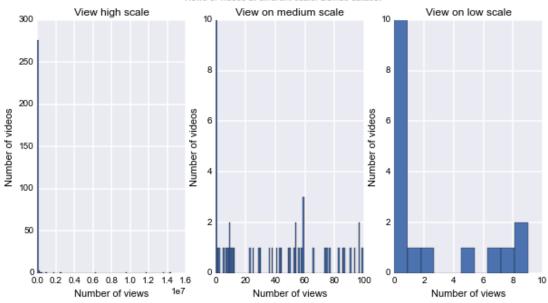
```
video_df.VIEWS = video_df.VIEWS.replace('None', 0)
views = video_df.VIEWS.order()
print('Maximum views: ' + str(views.max()))
```

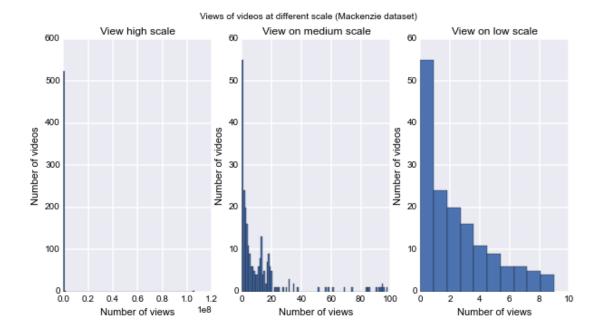
```
f=figure(figsize(10,5))
suptitle ('Views of videos at different scale: Davide dataset')
sp1 = f.add\_subplot(1,3,1)
h1=sp1.hist(views, bins=100)
sp1.set_ylabel('Number of videos')
sp1.set_xlabel('Number of views')
spl.set_title('View high scale')
sp2 = f.add\_subplot(1,3,2)
h2 = sp2.hist(views[views<100], bins=100)
sp2.set_title('View on medium scale')
sp2.set_ylabel('Number of videos')
sp2.set_xlabel('Number of views')
sp3 = f.add\_subplot(1,3,3)
h3 = sp3.hist(views[views<10], bins = 10)
sp3.set_title('View on low scale')
sp3.set_ylabel('Number of videos')
sp3.set_xlabel('Number of views')
#Adrian dataset
views = df_am.viewCount.astype('int').order()
print('Max views in adrian dataset: ' + str(views.max()))
f=figure(figsize=(10,5))
suptitle('Views of videos at different scale (Mackenzie dataset)')
sp1 = f.add\_subplot(1,3,1)
h1=sp1.hist(views, bins=100)
spl.set_ylabel('Number of videos')
spl.set_xlabel('Number of views')
sp1.set_title('View high scale')
sp2 = f.add\_subplot(1,3,2)
h2 = sp2.hist(views[views<100], bins=100)
sp2.set_title('View on medium scale')
sp2.set_ylabel('Number of videos')
sp2.set_xlabel('Number of views')
sp3 = f.add_subplot(1,3,3)
h3 = sp3.hist(views[views<10])
sp3.set_title('View on low scale')
sp3.set_ylabel('Number of videos')
sp3.set_xlabel('Number of views')
Maximum views: 14381492.0
Max views in adrian dataset: 105657789
```

Out [19]:

Views of videos at different scale: Davide dataset

<matplotlib.text.Text at 0x91325d0>





As usual, most videos are only viewed by a small number of people, and a couple are viewed by 100,000s up to 14 million. Actually, viewing figures are quite widely distributed even for the less-viewed videos. It might be interesting to look at the videos that are viewed 8, 30 or 80 times as well as the ones viewed 14 millon times. This analysis *does not* take into account view figures for copies of videos.

3.1 The most viewed videos

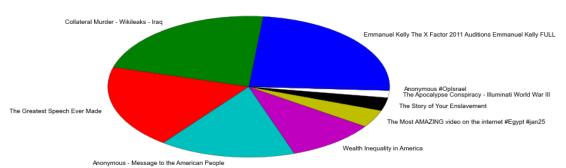
If we aggregate views for videos with the same title, things start to look different.

warnings.warn(d.msg, DeprecationWarning)

```
top_views = video_df.loc[video_df.VIEWS>100000, ['TITLE', 'VIEWS']]
        gby=top_views.groupby(by='TITLE')['VIEWS']
In [21]:
         print('total viewings:'+str(video_df['VIEWS'].sum()))
        print('total views of top videos:', sum(gby.sum()))
        print('total views of top 5 videos:', sum(gby.sum()[:4]))
        print (gby.ngroups)
        gbyo=gby.sum().order(ascending=False)
        pie(gbyo[0:9], labels=gbyo.keys()[0:9])
        pylab.title('Most viewed videos in terms of view share')
        pd.DataFrame(gbyo).head(n=5)
        total viewings:64494886.0
         ('total views of top videos:', 63247980.0)
        ('total views of top 5 videos:', 1128680.0)
        /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
        x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has
        been deprecated.
          warnings.warn(d.msg, DeprecationWarning)
        /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
        x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has
        been deprecated.
```

```
VIEWS
Out [21]: TITLE
Emmanuel Kelly The X Factor 2011 Auditions Emmanuel Kelly FULL
14381492
Collateral Murder - Wikileaks - Iraq
13640192
The Greatest Speech Ever Made
11744180
Anonymous - Message to the American People
9612949
Wealth Inequality in America
6287314
```

Most viewed videos in terms of view share

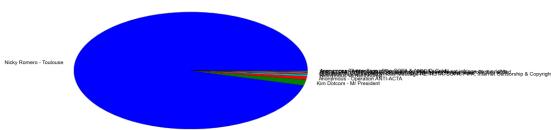


for the Adrian dataset In [22]: | df_am.viewCount = df_am.viewCount.astype('int32') top_views_am = df_am.loc[df_am.viewCount>100000, ['title', 'viewCount']] gby_am=top_views_am.groupby(by='title')['viewCount'] print('total viewings:'+str(df_am['viewCount'].sum())) print('total views of top videos:', sum(gby_am.sum()))
print('total views of top 5 videos:', sum(gby_am.sum()[:4])) print (gby_am.ngroups) gbyo_am=gby_am.sum().order(ascending=False) pie(gbyo_am[0:9], labels=gbyo_am.keys()[0:9])
pylab.title('Most viewed videos in terms of view share (Adrian dataset)') pd.DataFrame(gbyo_am).head(n=5) total viewings:112748149 ('total views of top videos:', 110920802) ('total views of top 5 videos:', 1393879) /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linuxx86 64.egg/pandas/core/config.py:570: DeprecationWarning: height has been deprecated. warnings.warn(d.msg, DeprecationWarning) /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linuxx86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has been deprecated.

Out [22]: title
Nicky Romero - Toulouse
105657789
Kim Dotcom - Mr President

```
1770309
Anonymous - Operation ANTI-ACTA
973731
Anonymous vs NorthKorea
568330
Operation Payback #Anonymous Message RE: ACTA, SOPA, PIPA, Internet
Censorship & Copyright 308797

Most viewed videos in terms of view share (Adrian dataset)
```



There are 18 videos that each have more 100,00 views. There have been around 480 million views in total of Anonymous-related videos. The top 18 videos account for 477 million of the views. The top 5 videos account for 460 million of the 480 million. Looking at the titles, is the 'Emmanuel Kelly X Factor 2011 Auditions' video 'noise'? Maybe not – he's an Iraqi orphan living in Australia, and 'Collateral Murder - Wikileaks - Iraq' (#2) doesn't look like that. The top four videos after Kelly's all have more than 50 million viewings. So they dominate the total views of Anonymous videos.

```
In [12]: #video_df.TITLE.
emmanuel_kelly = video_df.ID[video_df.TITLE == gbyo.index[0]]
YouTubeVideo(emmanuel_kelly.iloc[0])
<IPython.lib.display.YouTubeVideo at 0x4c13a90>
Out [12]:
```

3.2 Are video duplicates viewed?

Are views related to duplication/mirroring practices? First, we need to find the duplicates. Title is an ok starting point. Presumably, videos with the same title are likely to be duplicates.

```
title = video_df.TITLE.tolist()
video_df.TITLE = [t.encode('utf8', errors='ignore') for t in title]
print('distinct titles:', len(video_df.TITLE.unique()))
print('distinct ids', len(video_df.ID.unique()))
print('distinct durations:', len(video_df.DURATION.unique()))
('distinct titles:', 283)
('distinct ids', 289)
('distinct durations:', 221)
```

While there are 908 videos listed, there are only 283 distinctly titled videos and 289 distinct video IDS. That means that potentially ~620 are copies. But if copies have the same ID, does that mean that they have been uploaded? Or are they simply different views on the same video? This is a crucial question - are we dealing here with duplicates or just references to one instance?

Things are a bit more complicated in the duration data. There are only 220 distinct durations. But it could be that different videos happen to have the same duration. What are the most commonly duplicated videos?

```
dup_video_counts = video_df.TITLE.value_counts()
dup_df = pd.DataFrame(dup_video_counts.head())
dup_df
```

```
0
Out [14]: Christopher Hitchens Wishful Thinking vs Evidence 2008)
                                                                     16
         Anonymous is Freedom
                                                                     15
                                                                     10
         Anonymous Declaration of Freedom
         Anonymous - Truth is a Virus
                                                                     10
         Anonymous Exposed for Crimes Against Humanity
                                                                      9
         top_dup_video_counts=dup_video_counts[dup_video_counts>5]
         top_dup_video_counts = top_dup_video_counts.order(ascending=False)
In [15]:
         top_dup_videos = dup_video_counts.index
         top_dup_video_counts
         Christopher Hitchens Wishful Thinking vs Evidence 2008)
                                                                       16
Out [15]: Anonymous is Freedom
                                                                       15
                                                                       10
         Anonymous - Truth is a Virus
                                                                       10
         Anonymous Declaration of Freedom
         The Truth About The Anonymous Mask.
                                                                        9
         Tor tutorial "How to be anonymous on the internet"
                                                                           6
         Anonymous: S.O.P.A.
                                                                           6
         Anonymous - NDAA Bill Signed
                                                                           6
                                                                           6
         OpIsrael Anonymous launches massive cyber assault
         Arranca la operación de Anonymous contra Israel para borrarlos de
         Internet (06/04/13)
         Anonymous Current Event Project
                                                                           6
         Length: 84, dtype: int64
```

Does duplication correlate with viewing figures? Do these duplicates get the same number of views? Or are some versions much more widely viewed than others?

```
dup_views=video_df.loc[video_df.TITLE.isin(top_dup_videos), ['TITLE', 'VIEWS']]
         dup_views['copies'] = top_dup_video_counts
In [16]:
         dv =pd.DataFrame(dup_views.groupby(['TITLE'])['VIEWS'].sum().order(ascending=False))
         dv.head()
         VIEWS
Out [16]: TITLE
         Emmanuel Kelly The X Factor 2011 Auditions Emmanuel Kelly FULL
         115051936
         Collateral Murder - Wikileaks - Iraq
         109121536
         The Greatest Speech Ever Made
         93953440
         Anonymous - Message to the American People
         76903592
         Wealth Inequality in America
         50298512
```

Some interesting points here. High rates of duplication does not equate with high view counts. What is the Christopher Hitchens piece? It is the 4th most duplicated video, but shows 0 views - is that possible? More importantly, the most duplicated video 'Anonymous - Truth is a Virus' only has 1380 views.

3.3 Some stuff on users

```
video_df.columns
video_df['USER'].unique().shape
```

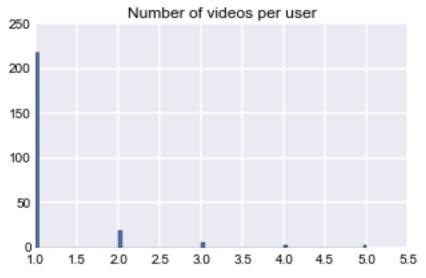
```
(246,)
```

Out [23]:

So there are 246 users (people?) who upload videos. How much do they upload?

```
user_counts = video_df['USER'].value_counts()
        f3 = figure(figsize=(5,3))
In [24]:
         sp=f3.add_subplot(111)
         h4 = sp.hist(video_df['USER'].value_counts(), bins=100)
         sp.set_title('Number of videos per user')
         top_users = user_counts[user_counts>5].index
         top_users
         print (user_counts.describe())
         user_counts.quantile(0.6)
        count
                  246.000000
        mean
                    1.174797
                    0.576703
                    1.000000
        min
        25%
                    1.000000
        50%
                    1.000000
        75%
                    1.000000
                    5.000000
        max
        dtype: float64
        /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
        x86_64.egg/pandas/compat/scipy.py:68: DeprecationWarning: using a non-
        integer number instead of an integer will result in an error in the
        future
           score = values[idx]
```

Out [24]:



So, more than 60% of people upload less than 2 videos.

3.4 How top contributing users upload top-viewed videos – that is, do they duplicate them?

I'm calling 'top users' anyone who uploads more than 5 videos, and 'top videos' any video that is duplicated more than 5 times.

```
topuser toptitle=pd.crosstab(video df[video df.USER.isin(top users)]['USER'], video df
In [32]: top_user_title_df = pd.DataFrame(topuser_toptitle.sum(axis=1).order(ascending=False))
         top_user_title_df.head()
Out [32]: USER
         YourRightsVigilante
                              18
         Truthloader
                               17
         wikispeak10
                               16
         Tom Craig
                               16
                               16
         MatriXCr3w
```

This suggests that there is some link between between uploading a lot and duplicating a lot. I'm not sure about this actually – needs further thought. There is still the question of whether the duplicates are viewed a lot. And do these high duplicating users duplicate the same videos?

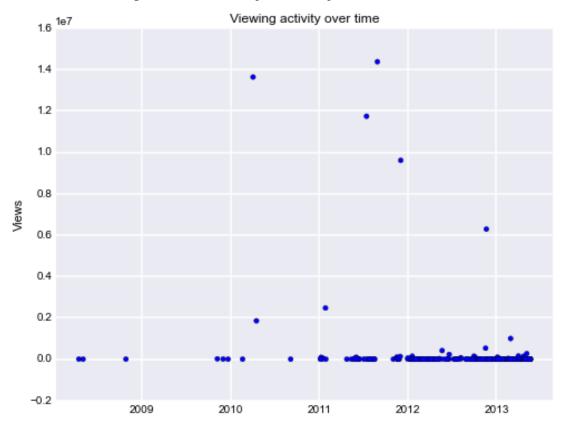
3.5 What is viewed

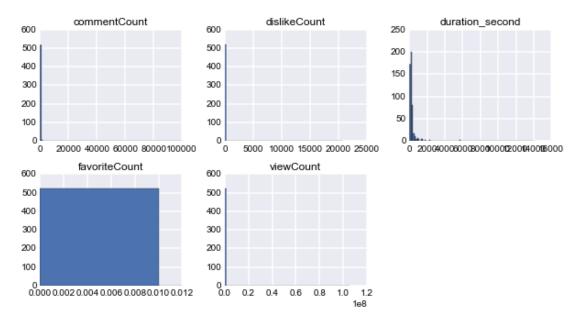
Many questions could be asked here. For highly duplicated videos, are all copies viewed at similar levels or not?

```
date = pd.to_datetime(video_df.DATA)
         video_df.DATA = date
In [25]:
         video_df.groupby(by=['TITLE'])['VIEWS'].sum().order()
         TITLE
Out [25]: Aaron Swartz - Wiki Article
                                                                            0
         Are your civil liberties being taken away? LIVE Debate
                                                                            0
                                                                            0
         Christopher Hitchens Wishful Thinking vs Evidence 2008)
         Cyber Intelligence Sharing and Protection Act - Wiki Article
                                                                            0
         Freedom on the Net 2012 Release: Shifting Methods of Internet Control
         The Most AMAZING video on the internet #Egypt #jan25
         2474050
         Wealth Inequality in America
         6287314
         Anonymous - Message to the American People
         The Greatest Speech Ever Made
         11744180
         Collateral Murder - Wikileaks - Iraq
         13640192
         Emmanuel Kelly The X Factor 2011 Auditions Emmanuel Kelly FULL
         14381492
         Name: VIEWS, Length: 283, dtype: float64
         f = figure(figsize=(8,6), dpi=400)
In [26]: s = f.add_subplot(111)
         s.scatter(date, video_df.VIEWS)
         s.set_title('Viewing activity over time')
s.set_ylabel('Views')
         top_views.head()
         /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
         x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has
         been deprecated.
           warnings.warn(d.msg, DeprecationWarning)
         /usr/local/lib/python2.7/dist-packages/pandas-0.12.0-py2.7-linux-
```

x86_64.egg/pandas/core/config.py:570: DeprecationWarning: height has been deprecated.

```
warnings.warn(d.msg. DeprecationWarning)
TITLE VIEWS
Out [26]: 21 Anonymous Philippines message to Cybercrime La... 143349
45 Table Talk: Cons, Internet Freedom, & Spoiler ... 155988
58 Anonymous Calls for CISPA Internet Blackout Day 138356
60 F2C2012: Aaron Swartz keynote - "How we stopp... 415163
76 Anonymous - A Message to Congress on SOPA 101092
```





Hard to see what is happening in the viewing of these videos.