
Modules

Release 0.1

Dominic

September 02, 2015

CONTENTS

1	apis package	1
1.1	Submodules	1
1.2	apis.facebook_api module	1
1.3	apis.flickr_api module	1
1.4	apis.instagram_api module	1
1.5	apis.twitter_api module	1
1.6	Module contents	2
2	config module	3
3	flickr_analysis module	5
4	geo module	7
5	secrets module	9
6	store module	11
7	twitter_analysis module	13
8	utils module	15
	Python Module Index	17
	Index	19

APIS PACKAGE

1.1 Submodules

1.2 apis.facebook_api module

1.3 apis.flickr_api module

Classes and functions which abstract over the flickr api.

```
class apis.flickr_api.FlickrQuery (tags=None, woe_id=None, year=None,
                                   only_geotagged=False)
```

Bases: *apis.Query*

```
class apis.flickr_api.PhotoCollection (iterator)
```

```
    count_photos()
```

```
    get_random_link()
```

```
    to_points()
```

```
apis.flickr_api.count_photos (query)
```

```
apis.flickr_api.get_photo_collection (query, per_page=200)
```

```
apis.flickr_api.get_points (query, per_page=200)
```

```
apis.flickr_api.print_places (query)
```

```
apis.flickr_api.retrieve_place_name (woe_id)
```

1.4 apis.instagram_api module

1.5 apis.twitter_api module

Defines important classes Tweet, TwitterSearchQuery, and TwitterStreamingQuery. Enable downloading tweets for search queries and to start streaming with filtering according to a given TwitterStreamingQuery.

```
class apis.twitter_api.Place (place_id)
```

Bases: object

```
class apis.twitter_api.PrintingListener
    Bases: apis.twitter_api.TwitterStreamListener

    on_status (status)

class apis.twitter_api.StoringListener (status_handler)
    Bases: apis.twitter_api.TwitterStreamListener

    on_connect ()
    on_status (status)

class apis.twitter_api.Tweet (status=None)
    Bases: object

class apis.twitter_api.TwitterSearchQuery (place_id=None, date=None)
    Bases: apis.Query

class apis.twitter_api.TwitterStreamListener
    Bases: tweepy.streaming.StreamListener

    on_error (status_code)

class apis.twitter_api.TwitterStreamingQuery (bounding_box)
    Bases: apis.Query

apis.twitter_api.date_string_to_datetime (date)
apis.twitter_api.download_search_tweets (query)
apis.twitter_api.print_limit_status ()
apis.twitter_api.print_place_info (place_id)
apis.twitter_api.print_places (query_string)
apis.twitter_api.start_streaming (stream_listener, bounding_box=None)
```

1.6 Module contents

```
class apis.Query
    Bases: object
```

CONFIG MODULE

FLICKR_ANALYSIS MODULE

```
flickr_analysis.compute_geotag_usage()  
flickr_analysis.plot_normalized_tag_usage(tags=None, woe_id=None, save2docs=False)  
flickr_analysis.plot_photos_per_year(woe_id=None, use_cache=False, save2docs=False)  
flickr_analysis.plot_wsl_flooding_data()  
flickr_analysis.save_map(queries, use_cache=False, n_bins=60,  
                          color_maps=[<matplotlib.colors.LinearSegmentedColormap object  
at 0x7fc04ab55610>, <matplotlib.colors.LinearSegmentedColormap ob-  
ject at 0x7fc04ab55650>, <matplotlib.colors.LinearSegmentedColormap  
object at 0x7fc04ab55690>], mix_points=False, formats=['png'])
```


GEO MODULE

```
class geo.BoundingBox
    Bases: object

class geo.Map (bounding_box, map_resolution=<MapResolution.INTERMEDIATE: 1>)
    Bases: object

    draw_densities (points, n_bins, color_map='Blues')

    draw_points (points)

    save (path, format='png')

    show ()

class geo.MapResolution
    Bases: enum.Enum

class geo.Point
    Bases: object
```


SECRETS MODULE

STORE MODULE

```
class store.StoreType(directory)
    Bases: object

store.get_search_tweets(place_id, begin, end=None)
store.read(query, store_type)
store.save(query, store_type)
```


TWITTER_ANALYSIS MODULE

```
class twitter_analysis.Topic (terms)  
    Bases: object  
  
twitter_analysis.contains_topic (tweet, topic)  
  
twitter_analysis.plot_rain_data ()  
  
twitter_analysis.plot_topic_distribution (topic=None, place_id=None, begin=None,  
                                           end=None)  
  
twitter_analysis.print_search_tweet_counts (place_id=None, begin_date=None,  
                                              end_date=None, use_cache=False)
```


UTILS MODULE

```
class utils.Stopwatch
    Bases: object

    start ()

utils.measure_download_time (query, per_page)
utils.print_totals (queries)
```


a

apis, [2](#)
apis.facebook_api, [1](#)
apis.flickr_api, [1](#)
apis.instagram_api, [1](#)
apis.twitter_api, [1](#)

c

config, [3](#)

f

flickr_analysis, [5](#)

g

geo, [7](#)

s

secrets, [9](#)
store, [11](#)

t

twitter_analysis, [13](#)

u

utils, [15](#)

A

apis (module), 2
 apis.facebook_api (module), 1
 apis.flickr_api (module), 1
 apis.instagram_api (module), 1
 apis.twitter_api (module), 1

B

BoundingBox (class in geo), 7

C

compute_geotag_usage() (in module flickr_analysis), 5
 config (module), 3
 contains_topic() (in module twitter_analysis), 13
 count_photos() (apis.flickr_api.PhotoCollection method), 1
 count_photos() (in module apis.flickr_api), 1

D

date_string_to_datetime() (in module apis.twitter_api), 2
 download_search_tweets() (in module apis.twitter_api), 2
 draw_densities() (geo.Map method), 7
 draw_points() (geo.Map method), 7

F

flickr_analysis (module), 5
 FlickrQuery (class in apis.flickr_api), 1

G

geo (module), 7
 get_photo_collection() (in module apis.flickr_api), 1
 get_points() (in module apis.flickr_api), 1
 get_random_link() (apis.flickr_api.PhotoCollection method), 1
 get_search_tweets() (in module store), 11

M

Map (class in geo), 7
 MapResolution (class in geo), 7
 measure_download_time() (in module utils), 15

O

on_connect() (apis.twitter_api.StoringListener method), 2
 on_error() (apis.twitter_api.TwitterStreamListener method), 2
 on_status() (apis.twitter_api.PrintingListener method), 2
 on_status() (apis.twitter_api.StoringListener method), 2

P

PhotoCollection (class in apis.flickr_api), 1
 Place (class in apis.twitter_api), 1
 plot_normalized_tag_usage() (in module flickr_analysis), 5
 plot_photos_per_year() (in module flickr_analysis), 5
 plot_rain_data() (in module twitter_analysis), 13
 plot_topic_distribution() (in module twitter_analysis), 13
 plot_wsl_flooding_data() (in module flickr_analysis), 5
 Point (class in geo), 7
 print_limit_status() (in module apis.twitter_api), 2
 print_place_info() (in module apis.twitter_api), 2
 print_places() (in module apis.flickr_api), 1
 print_places() (in module apis.twitter_api), 2
 print_search_tweet_counts() (in module twitter_analysis), 13
 print_totals() (in module utils), 15
 PrintingListener (class in apis.twitter_api), 1

Q

Query (class in apis), 2

R

read() (in module store), 11
 retrieve_place_name() (in module apis.flickr_api), 1

S

save() (geo.Map method), 7
 save() (in module store), 11
 save_map() (in module flickr_analysis), 5
 secrets (module), 9
 show() (geo.Map method), 7
 start() (utils.Stopwatch method), 15
 start_streaming() (in module apis.twitter_api), 2
 Stopwatch (class in utils), 15

store (module), [11](#)

StoreType (class in store), [11](#)

StoringListener (class in apis.twitter_api), [2](#)

T

to_points() (apis.flickr_api.PhotoCollection method), [1](#)

Topic (class in twitter_analysis), [13](#)

Tweet (class in apis.twitter_api), [2](#)

twitter_analysis (module), [13](#)

TwitterSearchQuery (class in apis.twitter_api), [2](#)

TwitterStreamingQuery (class in apis.twitter_api), [2](#)

TwitterStreamListener (class in apis.twitter_api), [2](#)

U

utils (module), [15](#)