Modules

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CHAPTER

ONE

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.**get_photo_collection**(*query*, *per_page=200*)

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

apis.flickr_api.**retrieve_place_name**(*woe_id=None*, *place_id=None*)

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.**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_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

CHAPTER

TWO

CONFIG MODULE

CHAPTER

THREE

FLICKR_ANALYSIS MODULE

flickr_analysis.**compute_geotag_usage**()

flickr_analysis.**plot_photos_per_year**(*woe_id=None*, *use_cache=False*)

flickr_analysis.**plot_statistics**()

flickr_analysis.**save_map**(*queries*, *use_cache=False*, *n_bins=60*, *color_maps=[<matplotlib.colors.LinearSegmentedColormap object at 0x7f7abf648ed0>, <matplotlib.colors.LinearSegmentedColormap object at 0x7f7abf648f50>, <matplotlib.colors.LinearSegmentedColormap object at 0x7f7abf648f90>]*, *mix_points=False*, *formats=['png']*)

CHAPTER

FOUR

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

CHAPTER

FIVE

SECRETS MODULE

CHAPTER

SIX

STORE MODULE

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

store.**get_search_tweets**(*place_id*, *begin*, *end=None*, *use_cache=False*)

store.**read**(*query*, *store_type*)

store.**save**(*query*, *store_type*)

CHAPTER

SEVEN

TWITTER_ANALYSIS MODULE

class twitter_analysis.**Topic**(*terms*)
Bases: object

twitter_analysis.**contains_topic**(*tweet*, *topic*)

twitter_analysis.**plot_rain_data**()

twitter_analysis.**print_search_tweet_counts**(*place_id=None*, *begin_date=None*, *end_date=None*, *use_cache=False*)

twitter_analysis.**topic_distribution**(*topic=None*, *place_id=None*, *begin=None*, *end=None*, *use_cache=False*)

CHAPTER

EIGHT

UTILS MODULE

class utils.**Stopwatch**

Bases: object

start()

utils.**measure_download_time**(*query*, *per_page*)

utils.**print_totals**(*queries*)

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