Grebe Social Data Aggregator

<u>RESTful API Version 1.0.1 Documentation</u>

Description:

Get tweets for a given date range and province with options to filter by keywords & fields

Endpoint (authentication required)**:**

http://159.203.60.220/grebe/api/?start=&end=&province=

Supported Methods:

GET

Required URL Parameters:

start=dd-mm-yyyy

end=dd-mm-yyyy

The maximum date range is 30 days

province=AB

The geo-coordinate data is used to filter by province if needed. Official two-letter abbreviations are supported[1], and cascading queries are not supported, i.e. only one province can be specified for filtering.

Optional URL Parameters:

keywords=string1+string2|string3|string4

For keywords to search for, both OR and AND operations are supported. For OR operations, i.e. string1 OR string2 OR string3, use the **|** (pipeline) separator, e.g. string1**|**string2**|**string3. For AND operations, i.e. string1 AND string2 AND string3, use the encoded space operator (plus) **+**, e.g. string1**+**string2**+**string3. Combined operations are also supported, e.g. string1**+**string2**|**string3**|**string4 implies string1 AND string2 OR string3 OR string4

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[1] Two-Letter Abbreviations for Canadian Provinces https://www.ncbi.nlm.nih.gov/books/NBK7254/

Optional URL Parameters (continued):

`fields=field1,field2.subfield2,field3.subfield3.subsubfield3`

The fields returned can be specified. Field names need to be separated by commas. Subfields are supported, using the dot notation. For the full list of field names returned by the Twitter APIs, review the Twitter Field Guide[2]. For example, to get the geo-coordinates of a tweet, you should use the following field reference: `coordinates.coordinates`

The list of default fields returned when no fields are specified is as follows: `id_str,text,collection_type,created_at,collected_at,user.id,user.screen_name,user.geo_enabled,user.location,coordinates.coordinates,place.full_name,place.country`

Returned Data Format:

All data is returned in JSON format compatible with JavaScript and MongoDB. The returned data is downloadable as plaintext. An example request and returned JSON are given below (formatted and simplified for clarity). Note that the field dot notation is not preserved in the output.

`http://159.203.60.220/grebe/api/?start=14-09-2016&end=15-09-2016&province=AB&keywords=edm+yeg|oilers&fields=text,user.location`

```
[
    {
        "text": "Rushed it Oilers",
        "user": {"location": "United States"}
    },
    {
        "text": "Late Night at the Edmonton yeg @ Alberta",
        "user": {"location": "Whyte Ave"}
    }
]
```

API Change Log:

Version	Changes
1.0.1	- Changed endpoint, port number no longer needed - Old value: http://159.203.60.220:5000/grebe/api/ - New value: http://159.203.60.220/grebe/api/ - Province field is now required - Removed paging limitations - Returned data is now downloaded to text file - Resolved field dot notation compatibility issues in returned data
RC 1.0.0	First stable production version release