

## Grebe Social Data Aggregator

### RESTful API Version 1.01 Documentation

#### Description:

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

#### Endpoint (authentication required):

<http://159.203.60.220/grebe/api/?start=&end=>

#### Supported Methods:

GET

#### Required URL Parameters:

[start=dd-mm-yyyy](#)

[end=dd-mm-yyyy](#)

The maximum date range is 30 days

#### Optional URL Parameters:

[page=integer](#)

Returned tweets are paginated for speed optimization. In order to determine what page number to navigate to, look at the information header of the returned data, which contains the current page, total pages, page size, and other information. Currently, the size per page is 10,000 tweets.

[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

## 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<sup>1</sup>. 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`

[province=AB](#)

The geo-coordinate data is used to filter by province if needed. Official two-letter abbreviations are supported<sup>2</sup>, and cascading queries are not supported, i.e. only one province can be specified for filtering.

## Returned Data Format:

All data is returned in validated JSON format. The fields dot notation is preserved in the returned dataset but may cause compatibility issues with some databases like MongoDB. An example request and returned JSON are given below.

<http://159.203.60.220/grebe/api/?start=14-09-2016&end=15-09-2016&page=1&keywords=edm+yeg|oilers&fields=text,user.location&province=AB>

```
[
  {
    "current_page":1,
    "total_tweets":2,
    "total_pages":1,
    "page_size":10000,
    "start_date":"2016-09-14 00:00:00",
    "end_date":"2016-09-15 00:00:00",
    "max_date_range":"30"
  },
  {
    "text":"Rushed it Oilers",
    "user.location": "United States"
  },
  {
    "text":"Late Night at the Edmonton yeg @ Alberta",
    "user.location": ""
  }
]
```

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<sup>1</sup> Twitter Field Guide <https://dev.twitter.com/overview/api/tweets>

<sup>2</sup> Two-Letter Abbreviations for Canadian Provinces <https://www.ncbi.nlm.nih.gov/books/NBK7254/>

**Change Log:**

Version	Changes
1.0.1	<ul style="list-style-type: none"><li>• Changed endpoint<ul style="list-style-type: none"><li>○ Old value: <a href="http://159.203.60.220:5000/grebe/api/">http://159.203.60.220:5000/grebe/api/</a></li><li>○ New value: <a href="http://159.203.60.220/grebe/api/">http://159.203.60.220/grebe/api/</a></li></ul></li><li>• Size per page set to 10,000 tweets and documented</li></ul>
RC 1.0.0	First stable production version release