***Parsing the Twitter Trends API***

Trends API is used to extract data from the Twitter server about the trending topics in the specified location. It is a part of Twitter API that is used to return the top 50 trending topics of a specific location.

It is also used to return the locations for which Twitter server has trending information available. It can also return the location for which Twitter server has trending information available closest to a specified location.

***Characteristics of Twitter API***

1. The Twitter API uses JSON data format for returning and receiving the data.
2. There are Twitter API libraries for almost all programming languages.
3. Twitter API is http-based API.
4. Twitter API limits the number of requests that can be sent to the Twitter server access token for Twitter account.

***Trends API***

***1.Get Trends/place***

It returns the top 50 trending topics for a specific “ID” if trending information is available for it. The “ID” is the “where on earth” identifier which is created by Yahoo. Response is an array of trained objects that encode the name of trending topics.

***EXAMPLE REQUEST:***

GET <https://api.twitter.com/1.1/trends/place.json?id=1>

***EXAMPLE RESPONSE:***

[

{

"trends": [

{

"name": "#GiftAGamer",

"url": "http://twitter.com/search?q=%23GiftAGamer",

"promoted\_content": null,

"query": "%23GiftAGamer",

"tweet\_volume": null

},

{

"name": "#AskCuppyAnything",

"url": "http://twitter.com/search?q=%23AskCuppyAnything",

"promoted\_content": null,

"query": "%23AskCuppyAnything",

"tweet\_volume": 14504

},

{

"name": "#givethanks",

"url": "http://twitter.com/search?q=%23givethanks",

"promoted\_content": null,

"query": "%23givethanks",

"tweet\_volume": null

},

{

"name": "Mourão",

"url": "http://twitter.com/search?q=Mour%C3%A3o",

"promoted\_content": null,

"query": "Mour%C3%A3o",

"tweet\_volume": 12614

},

{

"name": "Taysom Hill",

"url": "http://twitter.com/search?q=%22Taysom+Hill%22",

"promoted\_content": null,

"query": "%22Taysom+Hill%22",

"tweet\_volume": 20311

},

],

"as\_of": "2020-11-20T19:37:52Z",

"created\_at": "2020-11-19T14:15:43Z",

"locations": [

{

"name": "Worldwide",

"woeid": 1

}

]

}

]

***2.Get trends/available***

It returns the location that Twitter has trending topic information for.

The response is an array of “locations”.

***EXAMPLE REQUEST:***

GET <https://api.twitter.com/1.1/trends/available.json>

***EXAMPLE RESPONSE:***

[

{

"country": "Sweden",

"countryCode": "SE",

"name": "Sweden",

"parentid": 1,

"placeType": {

"code": 12,

"name": "Country"

},

"url": "http://where.yahooapis.com/v1/place/23424954",

"woeid": 23424954

},

{

"country": "Japan",

"countryCode": "JP",

"name": "Sapporo",

"parentid": 23424856,

"placeType": {

"code": 7,

"name": "Town"

},

"url": "http://where.yahooapis.com/v1/place/1118108",

"woeid": 1118108

},

{

"country": "United States",

"countryCode": "US",

"name": "Cincinnati",

"parentid": 23424977,

"placeType": {

"code": 7,

"name": "Town"

},

"url": "http://where.yahooapis.com/v1/place/2380358",

"woeid": 2380358

}

]

***3.Get Trends/closest***

It returns the location that Twitter has trending topic information for, closest to specified location.

The response is an array of “locations” in the JSON format.

***EXAMPLE REQUEST:***

GET <https://api.twitter.com/1.1/trends/closest.json?lat=37.781157&long=-122.400612831116>

***EXAMPLE RESPONSE:***

[

{

"country": "Australia",

"countryCode": "AU",

"name": "Australia",

"parentid": 1,

"placeType": {

"code": 12,

"name": "Country"

},

"url": "http://where.yahooapis.com/v1/place/23424748",

"woeid": 23424748

}

]

*Passing Twitter trends API*

Twitter API of offers the trends availability data in JSON format that you can pause with json\_decode function of PHP.

*CODE:*

$file = file\_get\_contents($trends);

$json = json\_decode($file,true);

usort($json, 'compare\_country');

foreach ($json as $location) {

echo $location["name"] . ", " . $location["country"] . "

";

}

function compare\_country($a, $b) {

return strnatcmp($a['country'], $b['country']);

}

?>

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