Introduction

The SentimentDynamics API is a web service which allows you to use our Sentiment Analysis platform from your website, software or mobile application. The API gives you access to all of the supported functions of our service.

The Web Service uses "REST-Like" RPC-style operations over HTTP GET requests with parameters URL encoded into the request and its response is encoded in JSON format. It is designed to be easy to use and you can implement it in any computer language that allows you generating web requests.

In order to use the SentimentDynamics API, you must sign-up for an account in mashape.com, login and get your API Key from your dashboard panel. There is some code snippets of various programming languages in our Mashape profile page.

Using the SentimentDynamics API or the Website indicates that you have read and accept the Terms & Conditions and the Privacy Policy. If you do not accept these terms, you are not authorized to use this service.

API Description

SentimentDynamics API allows you to build applications with Domain-free Sentiment Analysis and Opinion Mining capabilities. There are no limitations on what type of applications that you can build (web services, mobile apps, desktop apps, etc). All you have to do is to call our service when you need to use Sentiment Analysis.
The services currently provided include Text Polarity Classification, Opinion Target Extraction. The tweet sentiment extraction is a feature that we are developing and it will be available pretty soon.

**Text Polarity Classification**

This functionality consists of classifying text based on its opinion polarity. An opinionated text could be positive about what is talking about, could be negative, or could be neutral. For example:

- I just love the new face recognition feature in my new phone – It has a positive polarity
- The room service was awful. I won’t come back again – It has a negative polarity
- The senator said he would be traveling next week – It has no polarity, so it is neutral

The text length is up to 256 characters per query.

**Opinion Target Extraction**

This functionality consists of extracting the keywords from opinionated texts that represent the opinion targets. For example:

- I just love the new face recognition feature in my new phone – The word “phone” is extracted as opinion target (OT).
- The room service was awful. I won’t come back again – The word “service” is extracted as OT
- The senator said he would be traveling next week – Since this text has no polarity, it does not have an OT.

**Mashape Service**

Our API uses the services of mashape.com for billing and users authorization. In order to use our API you must sign up in mashape.com. Then you have to go to the SentimentDynamics API Profile and select a subscription plan. From there you can create a mashape authorization key. You must send this key as header in every request you make.
Supported API Functions

METHOD: GET

URL: https://idynamics-sentiment-dynamics.p.mashape.com/query.json

DESCRIPTION: This functionality consists of classifying text based on its opinion polarity and extracting its opinion targets (also called aspects).

QUERY STRING PARAMETERS:

<table>
<thead>
<tr>
<th>Parameter ID</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text</td>
<td>String up to 256 characters</td>
<td>Quoted Plain Text to classify.</td>
</tr>
<tr>
<td>Aspects</td>
<td>true or false</td>
<td>Indicates if Opinion Target Extraction is performed</td>
</tr>
<tr>
<td>Normalize</td>
<td>true or false</td>
<td>Indicates if normalization of text is required</td>
</tr>
</tbody>
</table>

REQUEST HEADERS

<table>
<thead>
<tr>
<th>ID</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Mashape-Authorization</td>
<td>Alphanumeric string</td>
<td>Mashape Authorization Key</td>
</tr>
</tbody>
</table>

Text Normalization

This feature enables you to normalize your text input before trying to classify its polarity. This feature is really useful (and sometimes necessary) when the data is very noisy (Tweets for example). The drawback is that this requires more processing power and the queries results might be slower to get.

The text normalization feature tries to:

- Correct misspellings and grammar.
- Changes all words to lowercase
- Punctuation handling
- Social Media metadata handling (like tweet’s @, hashtags, URLs)
Queries Examples

Text Polarity Classification:


Text Polarity Classification with Opinion Target Extraction:


Text Polarity Classification with Opinion Target Extraction and Text Normalization:


Queries Responses

The responses are JSON formatted and they have 5 fields:

- Code: A numeric string HTTP standard response code:
  - 200 – OK
  - 400 – Incorrect or Missing Text Field
  - 401 – Incorrect or unauthorized API Key
  - 402 – Text length is too long. Must be up to 256 characters
  - 500 – Internal Server Error

- Status: A description message of the query response
- Norm_text: If text normalization is enabled, this is the normalized text used as input.
- Aspects: A space-separated keyword list that represent the Opinion Targets.
- Polarity: The Opinion Polarity of the text. 1 (or +1) means it has a positive polarity. -1 means the text has a negative polarity. 0 means the text has no polarity.

Queries Responses Examples

Text Polarity Classification:

```json
{
    "code":"200",
    "status":"OK",
    "polarity":"1"
}
```
Text Polarity Classification with Opinion Target Extraction:

```
{
   "code":"200",
   "status":"OK",
   "polarity":"1",
   "aspects":"face recognition feature phone 
}
```

Text Polarity Classification with Opinion Target Extraction and Text Normalization:

```
{
   "code":"200",
   "status":"OK",
   "norm_text":"i just love the new face recognition feature in my new phone"
   "polarity":"1",
   "aspects":"face recognition feature phone 
}
```

Support and Contact Info

If you have any trouble using our API, please do not hesitate to contact us at service@sentimentdynamics.com, or submitting an issue ticket at our Mashape Profile.