Analyzing Sentiment

Sentiment Analysis inspects the given text and identifies the prevailing emotional opinion within the text, especially to determine a writer's attitude as positive, negative, or neutral. Sentiment analysis is performed through the `analyzeSentiment` method. For information on which languages are supported by the Natural Language API, see Language Support (https://cloud.google.com/natural-language/docs/languages). For information on how to interpret the `score` and `magnitude` sentiment values included in the analysis, see Interpreting sentiment analysis values (https://cloud.google.com/natural-language/docs/basics#interpreting_sentiment_analysis_values).

This section demonstrates a few ways to detect sentiment in a document.

Analyzing Sentiment in a String

Here is an example of performing sentiment analysis on a text string sent directly to the Natural Language API:

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To analyze sentiment in a document, make a `POST` request to the `documents:analyzeSentiment` (https://cloud.google.com/natural-language/docs/reference/rest/v1/documents/analyzeSentiment) REST method and provide the appropriate request body as shown in the following example.

The example uses the `gcloud auth application-default print-access-token` command to obtain an access token for a service account set up for the project using the Google Cloud Platform Cloud SDK (https://cloud.google.com/sdk/). For instructions on installing the Cloud SDK, setting up a project with a service account see the Quickstart (https://cloud.google.com/natural-language/docs/quickstart/).

```
curl -X POST \
     -H "Authorization: Bearer "$(gcloud auth application-default print-acces
     -H "Content-Type: application/json; charset=utf-8" \
     --data "{
  'encodingType': 'UTF8',
  'document': {
    'type': 'PLAIN_TEXT',
    'content': 'Enjoy your vacation!'
  }
}" "https://language.googleapis.com/v1/documents:analyzeSentiment"
```

If you don't specify `document.language`, then the language will be automatically detected. For information on which languages are supported by the Natural Language API, see Language Support (https://cloud.google.com/natural-language/docs/languages). See the `Document` (https://cloud.google.com/natural-language/docs/reference/rest/v1/documents#Document) reference documentation for more information on configuring the request body.

If the request is successful, the server returns a `200 OK` HTTP status code and the response in JSON format:

```
{
  "documentSentiment": {
    "magnitude": 0.8,
    "score": 0.8
  },
  "language": "en",
  "sentences": [
    {
      "text": {
        "content": "Enjoy your vacation!",
        "beginOffset": 0
      },
      "sentiment": {
        "magnitude": 0.8,
        "score": 0.8
      }
    }
  ]
}
```

`documentSentiment.score` (https://cloud.google.com/natural-language/docs/reference/rest/v1/Sentiment) indicates positive sentiment with a value greater than zero, and negative sentiment with a value less than zero.

Analyzing Sentiment from Google Cloud Storage

For your convenience, the Natural Language API can perform sentiment analysis directly on a file located in Google Cloud Storage, without the need to send the contents of the file in the body of your request.

Here is an example of performing sentiment analysis on a file located in Cloud Storage.

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To analyze sentiment from a document stored in Google Cloud Storage, make a `POST` request to the `documents:analyzeSentiment`

(https://cloud.google.com/natural-language/docs/reference/rest/v1/documents/analyzeSentiment) REST method and provide the appropriate request body with the path to the document as shown in the following example.

```
curl -X POST \
     -H "Authorization: Bearer "$(gcloud auth application-default print-acce
     -H "Content-Type: application/json; charset=utf-8" \
     --data "{
  'document':{
    'type':'PLAIN_TEXT',
    'gcsContentUri':'gs://<bucket-name>/<object-name>'
  }
}" "https://language.googleapis.com/v1/documents:analyzeSentiment"
```

If you don't specify `document.language`, then the language will be automatically detected. For information on which languages are supported by the Natural Language API, see Language Support (https://cloud.google.com/natural-language/docs/languages). See the `Document` (https://cloud.google.com/natural-language/docs/reference/rest/v1/documents#Document) reference documentation for more information on configuring the request body.

If the request is successful, the server returns a `200 OK` HTTP status code and the response in JSON format:

```
{
  "documentSentiment": {
    "magnitude": 0.8,
    "score": 0.8
  },
  "language": "en",
  "sentences": [
    {
      "text": {
        "content": "Enjoy your vacation!",
        "beginOffset": 0
      },
      "sentiment": {
        "magnitude": 0.8,
        "score": 0.8
      }
    }
  ]
}
```

`documentSentiment.score` (https://cloud.google.com/natural-language/docs/reference/rest/v1/Sentiment) indicates positive sentiment with a value greater than zero, and negative sentiment with a value less than zero.

Last updated September 19, 2018.