
py-textteaser Documentation

Release 0.3

Jeffrey Goettsch

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INSTALLATION

If you have already downloaded textteaser, run the following command inside this directory:

```
$ python setup.py install
```

If you have not yet downloaded textteaser, it would be easier to use pip:

```
$ pip install textteaser
```

or easy_install:

```
$ easy_install textteaser
```

Either method will install textteaser into your current environment.

SUMMARIZING TEXT

TextTeaser objects are instantiated with your Mashape API key:

```
>>> import textteaser
>>> tt = textteaser.TextTeaser('foobarbaz') # replace 'foobarbaz' with your API key
```

You can then call the summarize method with text and a title:

```
>>> text = """
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus.
Sed sit amet ipsum mauris. Maecenas congue ligula ac quam viverra nek
consectetur ante hendrerit. Donec et mollis dolor. Praesent et diam eget libero
egestas mattis sit amet vitae augue. Nam tincidunt congue enim, ut porta lorem
lacinia consectetur. Donec ut libero sed arcu vehicula ultricies a non tortor.
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ut gravida
lorem. Ut turpis felis, pulvinar a semper sed, adipiscing id dolor.
Pellentesque auctor nisi id magna consequat sagittis. Curabitur dapibus enim
sit amet elit pharetra tincidunt feugiat nisl imperdiet. Ut convallis libero in
urna ultrices accumsan. Donec sed odio eros. Donec viverra mi quis quam
pulvinar at malesuada arcu rhoncus. Cum sociis natoque penatibus et magnis dis
parturient montes, nascetur ridiculus mus. In rutrum accumsan ultricies. Mauris
vitae nisi at sem facilisis semper ac in est.

Vivamus fermentum semper porta. Nunc diam velit, adipiscing ut tristique vitae,
sagittis vel odio. Maecenas convallis ullamcorper ultricies. Curabitur ornare,
ligula semper consectetur sagittis, nisi diam iaculis velit, id fringilla sem
nunc vel mi. Nam dictum, odio nec pretium volutpat, arcu ante placerat erat,
non tristique elit urna et turpis. Quisque mi metus, ornare sit amet fermentum
et, tincidunt et orci. Fusce eget orci a orci congue vestibulum. Ut dolor diam,
elementum et vestibulum eu, porttitor vel elit. Curabitur venenatis pulvinar
tellus gravida ornare. Sed et erat faucibus nunc euismod ultricies ut id justo.
Nullam cursus suscipit nisi, et ultrices justo sodales nec. Fusce venenatis
facilisis lectus ac semper. Aliquam at massa ipsum. Quisque bibendum purus
convallis nulla ultrices ultricies. Nullam aliquam, mi eu aliquam tincidunt,
purus velit laoreet tortor, viverra pretium nisi quam vitae mi. Fusce vel
volutpat elit. Nam sagittis nisi dui.
"""
>>> title = 'Lorem ipsum example'
>>> sentences = tt.summarize(text, title)
```

The summarize method returns a list of sentences:

```
>>> for sentence in sentences:
>>>     print sentence
u'Lorem ipsum dolor sit amet, consectetur adipiscing elit.',
u'Sed sit amet ipsum mauris.',
```

```
u'Nam tincidunt congue enim, ut porta lorem\nlacinia consectetur.',  
u'Lorem ipsum dolor sit amet, consectetur adipiscing elit.',  
u'Aenean ut gravida\nlorem.'
```

Alternately, you can summarize an article from a URL:

```
>>> url = 'https://en.wikipedia.org/wiki/Alan_turing'  
>>> sentences = tt.summarize(url=url)
```

LOGGING

You can use Python's `logging` module to see `py-textteaser`'s HTTP requests and responses.

First, set up the logger with the `DEBUG` level:

```
>>> import logging
>>>
>>> logger = logging.getLogger('textteaser')
>>> logger.setLevel(logging.DEBUG)
```

Then set up the formatter and a handler:

```
>>> formatter = logging.Formatter('%(name)s-%(levelname)s: %(message)s')
>>> handler = logging.StreamHandler()
>>> handler.setFormatter(formatter)
>>> logger.addHandler(handler)
```

Now when you make a request:

```
>>> tt = textteaser.TextTeaser('foobarbaz')
>>> tt.summarize(url='https://en.wikipedia.org/wiki/Alan_turing')
```

the HTTP request and response will be logged:

```
>>> textteaser.textteaser.TextTeaser-DEBUG: posting to url:
https://textteaser.p.mashape.com/api with data: {
  'url': 'https://en.wikipedia.org/wiki/Alan_turing',
  'text': None,
  'title': None
}
textteaser.textteaser.TextTeaser-DEBUG: received response: {
  u'title': u'Wikipedia, the free encyclopedia',
  u'summaryId': u'3wbgVQ',
  u'sentences': [
    u'He went on to prove that there was no solution to the]
    Entscheidungsproblem by first showing that the halting
    problem for Turing machines is undecidable: in general,
    it is not possible to decide algorithmically whether a
    given Turing machine will ever halt.',
    u"It was also novel in its notion of a 'Universal Machine' (now
    known as a Universal Turing machine), with the idea that
    such a machine could perform the tasks of any other
    machine, or in other words, it is provably capable of
    computing anything that is computable.",
    u'30 In June 1938, he obtained his PhD from Princeton; 31 his
    dissertation, Systems of Logic Based on Ordinals, 32 33
    introduced the concept of ordinal logic and the notion of
```

```
relative computing, where Turing machines are augmented
with so-called oracles, allowing a study of problems that
cannot be solved by a Turing machine.',
u'115\n\nIn 1999, Time Magazine named Turing as one of the 100
Most Important People of the 20th century and stated: "The
fact remains that everyone who taps at a keyboard, opening
a spreadsheet or a word-processing program, is working on
an incarnation of a Turing machine." 3 Turing is featured
in the 1999 Neal Stephenson novel Cryptonomicon.',
u'On 23 June 2012, Google featured an interactive doodle where
visitors had to change the instructions of a Turing
Machine, so when run, the symbols on the tape would match
a provided sequence, featuring "Google" in Baudot-Murray
code.'
```

```
]
}
```

API DOCUMENTATION

`class textteaser.TextTeaser (apikey)`

summarize (*text=None, title=None, url=None, kwargs=None*)

Summarize the given text.

Args:

text: A string containing the article to summarize. If empty, url is required. (Default: '')

title: A string containing a title for the article. If empty, url is required. (Default: '')

url: A string containing the URL whose content you want to summarize. If empty, text and title are required. (Default: '')

kwargs: A dictionary with the following possible strings:

category: A string containing the category of the article.

blog: A string containing the blog or source of the article.

Raises: `textteaser.exceptions.APIKeyError`

`textteaser.exceptions.ServerError`

`requests.exceptions.HTTPError`

Returns: A list of strings, each being a sentence of the summary.

DEVELOPMENT

All development for textteaser takes place on bitbucket:

- <https://bitbucket.org/jgoettsch/py-textteaser/>

To get started you can do the following:

```
$ hg clone https://bitbucket.org/jgoettsch/py-textteaser/  
$ cd py-textteaser  
$ pip install -r requirements_dev.txt  
$ python setup.py develop
```

If you discover a bug, please create an issue ticket:

- <https://bitbucket.org/jgoettsch/py-textteaser/issues/new>

To run the test suite, you will have to create a module at:

```
textteaser/tests/apikey.py
```

with a global variable, `APIKEY`, which is a string containing your API key. Then you can run the test suite with `nosetests`:

```
$ nosetests --with-coverage --cover-package=textteaser textteaser/tests/tests.py
```

or through `setup.py`:

```
$ python setup.py test
```


CHANGELOG

For a full history of changes see the commit history:

- <https://bitbucket.org/jgoettsch/py-textteaser/commits/all>

version 0.3

- Added minimal logging support.

version 0.2

- Able to summarize text at a given URL.

version 0.1.1

- Removed caching ability to match API changes.

version 0.1

- Able to summarize text with the TextTeaser API.
- Able to retrieve passed summaries quickly through cached ID values.

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Version 3, 19 November 2007

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