py-textteaser Documentation

Release 0.4dev

Jeffrey Goettsch

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CHAPTER 1

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 = """
```

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```
>>> 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.',
```

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```
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\n 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.'
```

8 Chapter 3. Logging

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 containg 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

text teaser. exceptions. Server Error

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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