
vocabulary Documentation

Release 10

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A Command line Magician in the form of a module

Contents:

CHAPTER 1

Introduction

For a given word, using `Vocabulary`, you can get it's

- Meaning
- Synonyms
- Antonyms
- Part of speech : whether the word is a noun, interjection or an adverb et el
- Translate : Translate a phrase from a source language to the desired language.
- Usage example : a quick example on how to use the word in a sentence
- Pronunciation
- Hyphenation : shows the particular stress points(if any)

Features

- Written in uncomplicated Python
- Returns JSON objects
- Minimum dependencies (just uses `requests`)
- Easy to install
- A decent substitute to Wordnet(well almost!) Wanna see? Here is a *small comparison*
- Stupidly easy to use
- Fast!
- Supports
 - both, `python2.*` and `python3.*`
 - Works on Mac, Linux and Windows

How does it work

Under the hood, it makes use of 4 awesome API's to give you consistent results. The API's being

- Wordnik
- Glosbe
- BighugeLabs
- Urbandict

CHAPTER 2

Wordnet Comparison

Wordnet is a great resource. No doubt about it! So why should you use Vocabulary when we already have Wordnet out there?

Let's say you want to find out the synonyms for the word car.

- Using Wordnet

```
>>> from nltk.corpus import wordnet
>>> syns = wordnet.synsets('car')
>>> syns[0].lemmas[0].name
'car'
>>> [s.lemmas[0].name for s in syns]
['car', 'car', 'car', 'car', 'cable_car']

>>> [l.name for s in syns for l in s.lemmas]
['car', 'auto', 'automobile', 'machine', 'motorcar', 'car', 'railcar', 'railway_car',
 ↵'railroad_car', 'car', 'gondola', 'car', 'elevator_car', 'cable_car', 'car']
```

- Doing the same using Vocabulary

```
>>> from vocabulary import Vocabulary as vb
>>> vb.synonym("car")
'[{"seq": 0, "text": "automotive"}, {"seq": 1, "text": "motor"}, {"seq": 2, "text":
 ↵"wagon"}, {"seq": 3, "text": "cart"}, {"seq": 4, "text": "automobile"}]'
>>> ## load the json data
>>> car_synonyms = json.loads(vb.synonym("car"))
>>> type(car_synonyms)
<class 'list'>
>>>
```

So there you go. You get the data in an easy JSON format.

You can go on comparing for the other methods too.

CHAPTER 3

Installation

Option 1: installing through pip (Suggested way)

pypi package link

```
$ pip install vocabulary
```

If you are behind a proxy

```
$ pip --proxy [username:password@]domain_name:port install vocabulary
```

Note: If you get command not found then

```
$ sudo apt-get install python-pip
```

should fix that

Option 2: Installing from source

```
$ git clone https://github.com/prodicus/vocabulary.git
$ cd vocabulary/
$ pip install -r requirements.txt
$ python setup.py install
```

Upgrade

You can update to the latest version by doing a

```
$ pip install --upgrade vocabulary
```

Uninstalling

```
$ pip uninstall vocabulary
```

CHAPTER 4

Usage Examples

A Simple demonstration of the module

```
## Importing the module
>>> from vocabulary.vocabulary import Vocabulary as vb

## Extracting "Meaning"
>>> vb.meaning("hillbilly")
' [{"text": "Someone who is from the hills; especially from a rural area, with a\u202c  
connotation of a lack of refinement or sophistication.", "seq": 0}, {"text":  
"someone who is from the hills", "seq": 1}, {"text": "A white person from the rural\u202c  
southern part of the United States.", "seq": 2}]'
>>>

## "Synonym"
>>> vb.synonym("hurricane")
' [{"text": "storm", "seq": 0}, {"text": "tropical cyclone", "seq": 1}, {"text":  
"typhoon", "seq": 2}, {"text": "gale", "seq": 3}]'
>>>

## "Antonym"
>>> vb.antonym("respect")
' [{"text": "disesteem"}, {"text": "disrespect"}]'
>>> vb.antonym("insane")
' [{"text": "sane"}]'

## "Part of Speech"
>>> vb.part_of_speech("hello")
' [{"text": "interjection", "example": "greeting", "seq": 0}, {"text": "verb-  
intransitive", "example": "To call.", "seq": 1}]'
>>>

## "Usage Examples"
>>> vb.usage_example("chicanery")
' [{"text": "The Bush Administration is now the commander-in-theif (lower-case\u202c  
intentional) thanks to their chicanery.", "seq": 0}]'
```

```
>>>

## "Pronunciation"
>>> vb.pronunciation("hippopotamus")
'[{\'raw\': '(hip-p\u00f3t-ms)', \'rawType\': 'ahd-legacy', \'seq\': 0}, {\'raw\': 'HH IH2 P AHO P\u202c\u202cAA1 T AHO M AHO S', \'rawType\': 'arpabet', \'seq\': 1}]'
>>>

## "Hyphenation"
>>> vb.hyphenation("hippopotamus")
'[{"text": "hip", "type": "secondary stress", "seq": 0}, {"text": "po", "seq": 1}, {
\u202c\u202c"text": "pot", "type": "stress", "seq": 2}, {"text": "a", "seq": 3}, {"text": "mus",
\u202c\u202c"seq": 4}]'
>>> vb.hyphenation("amazing")
'[{"text": "a", "seq": 0}, {"text": "maz", "type": "stress", "seq": 1}, {"text": "ing
\u202c\u202c", "seq": 2}]'
>>>

## "Translate"
>>> vb.translate("bread", "en", "fra")
'[{"seq": 0, "text": "pain"}, {"seq": 1, "text": "paner"}, {"seq": 2, "text": "pognon
\u202c\u202c"}, {"seq": 3, "text": "fric"}, {"seq": 4, "text": "bl\u00e9"}]'
>>> vb.translate("goodbye", "en", "es")
'[{"seq": 0, "text": "hasta luego"}, {"seq": 1, "text": "vaya con Dios"}, {"seq": 2,
\u202c\u202c"text": "despedida"}, {"seq": 3, "text": "adi\u00f3n"}, {"seq": 4, "text": "vaya
\u202c\u202ccon dios"}, {"seq": 5, "text": "hasta la vista"}, {"seq": 6, "text": "nos vemos"}, {
\u202c\u202cseq": 7, "text": "adios"}, {"seq": 8, "text": "hasta pronto"}]'
>>>

## "Response Formatting"
>>> vb.antonym("love", format="dict")
'{"text": "hate"}'
>>> vb.antonym("love", format="list")
["hate"]
>>> vb.part_of_speech("code", format="dict")
{0: {"text": "noun", "example": "A systematically arranged and comprehensive
\u202c\u202ccollection of laws."}}
>>> vb.part_of_speech("code", format="list")
[["noun", "A systematically arranged and comprehensive collection of laws."]]
```

CHAPTER 5

Help

If you need to see the usage for any of the methods, do a

```
>>> from vocabulary import Vocabulary as vb
>>> help(vb.translate)
Help on function translate in module vocabulary.vocabulary:

translate(phrase, source_lang, dest_lang)
    Gets the translations for a given word, and returns possibilites as a list
    Calls the glosbe API for getting the translation

    <source_lang> and <dest_lang> languages should be specified in 3-letter ISO 639-3_
→format,
    although many 2-letter codes (en, de, fr) will work.

    See http://en.wikipedia.org/wiki/List\_of\_ISO\_639-3\_codes for full list.

    :param phrase: word for which translation is being found
    :param source_lang: Translation from language
    :param dest_lang: Translation to language
    :returns: returns a json object
(END)
```

and so on for other functions

CHAPTER 6

Contributing

1. Fork it.

2. Clone it

create a `virtualenv`

```
$ virtualenv develop          # Create virtual environment
$ source develop/bin/activate  # Change default python to virtual one
(develop)$ git clone https://github.com/prodicus/vocabulary.git
(develop)$ cd vocabulary
(develop)$ pip install -r requirements.txt  # Install requirements for 'Vocabulary' ↴
                                          in virtual environment
```

Or, if `virtualenv` is not installed on your system:

```
$ wget https://raw.github.com/pypa/virtualenv/master/virtualenv.py
$ python virtualenv.py develop    # Create virtual environment
$ source develop/bin/activate    # Change default python to virtual one
(develop)$ git clone https://github.com/prodicus/vocabulary.git
(develop)$ cd vocabulary
(develop)$ pip install -r requirements.txt  # Install requirements for 'Vocabulary' ↴
                                          in virtual environment
```

3. Create your feature branch (`$ git checkout -b my-new-awesome-feature`)

4. Commit your changes (`$ git commit -am 'Added <xyz> feature'`)

5. Run tests

```
(develop) $ ./tests.py -v
```

Conform to [PEP8](#) and if everything is running fine, integrate your feature

6. Push to the branch (`$ git push origin my-new-awesome-feature`)

7. Create new Pull Request

Hack away!

To do

- [X] Add translate module
- [X] Add an option like *JSON=False* or *JSON=True* where the former returns a list object

Tests

Running the test cases

```
$ ./tests.py -v
test_antonym_ant_key_error (tests.tests.TestModule) ... ok
test_antonym_found (tests.tests.TestModule) ... ok
test_antonym_not_found (tests.tests.TestModule) ... ok
test_hyphenation_found (tests.tests.TestModule) ... ok
test_hyphenation_not_found (tests.tests.TestModule) ... ok
test_meaning_found (tests.tests.TestModule) ... ok
test_meaning_key_error (tests.tests.TestModule) ... ok
test_meaning_not_found (tests.tests.TestModule) ... ok
test_partOfSpeech_found (tests.tests.TestModule) ... ok
test_partOfSpeech_not_found (tests.tests.TestModule) ... ok
test_pronunciation_found (tests.tests.TestModule) ... ok
test_pronunciation_not_found (tests.tests.TestModule) ... ok
test_respond_as_dict_1 (tests.tests.TestModule) ... ok
test_respond_as_dict_2 (tests.tests.TestModule) ... ok
test_respond_as_dict_3 (tests.tests.TestModule) ... ok
test_respond_as_list_1 (tests.tests.TestModule) ... ok
test_respond_as_list_2 (tests.tests.TestModule) ... ok
test_respond_as_list_3 (tests.tests.TestModule) ... ok
test_synonymm_empty_list (tests.tests.TestModule) ... ok
test_synonymm_found (tests.tests.TestModule) ... ok
test_synonymm_not_found (tests.tests.TestModule) ... ok
test_synonymm_tuc_key_error (tests.tests.TestModule) ... ok
test_translate_empty_list (tests.tests.TestModule) ... ok
test_translate_found (tests.tests.TestModule) ... ok
test_translate_not_found (tests.tests.TestModule) ... ok
test_translate_tuc_key_error (tests.tests.TestModule) ... ok
test_usageExample_empty_list (tests.tests.TestModule) ... ok
test_usageExample_found (tests.tests.TestModule) ... ok
test_usageExample_not_found (tests.tests.TestModule) ... ok

-----
Ran 29 tests in 0.015s
OK
```

Discuss

Join us on our [Gitter channel](#) if you want to chat or if you have any questions.

Building the docs

Install the *Sphinx* by doing a `$ pip install requirements-dev.txt`

```
$ make html
```

Contributors

- Huge shoutout to [@tenorz007](#) for adding the ability to return the API response as different data structures.
- Thanks to [Anton Relin](#) for adding the `translate()` module
- A big shout out to all the [contributors](#)

CHAPTER 7

Changelog

0.0.4

- JSON inconsistency fixed for the methods
 - `Vocabulary.hyphenation()`
 - `Vocabulary.part_of_speech()`
 - `Vocabulary.meaning()`

0.0.5

New in version 0.0.5.

- Added `Vocabulary.translate()`
- Improved Documentation
- Minor bug fixes

1.0.0

New in version 1.0.0.

- Added support for specifying response format
- Updated `Vocabulary.pronunciation`, `Vocabulary.antonym``, ``Vocabulary.part_of_speech`` to return a list of objects with appropriate index

CHAPTER 8

Known Issues

When using the method pronunciation

```
>>> vb.pronunciation("hippopotamus")
[{'raw': '(h\xedp-p\xf6t-ms)', 'rawType': 'ahd-legacy', 'seq': 0}, {'raw': 'HH IH2 P AH0 P\x9c
\x9cAA1 T AH0 M AH0 S', 'rawType': 'arpabet', 'seq': 1}]
>>> type(vb.pronunciation("hippopotamus"))
<class 'list'\>
>>> json.dumps(vb.pronunciation("hippopotamus"))
'[{"raw": "(h\x012dp\x02cc\x0259-p\x014ft\x02c8\x0259-m\x0259s)", "rawType":'
\x9c"ahd-legacy", "seq": 0}, {"raw": "HH IH2 P AH0 P AA1 T AH0 M AH0 S", "rawType":'
\x9c"arpabet", "seq": 1}]'
```

You are being returned a `list` object instead of a `JSON` object. When returning the latter, there are some unicode issues. A fix for this will be released soon.

CHAPTER 9

Indices and tables

- genindex
- modindex
- search