markovipy Documentation

Release 0.2.0

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markovipy

She tries striking conversations with you with her cohesive sentences after you have given her fill of text to her. And no she won't complain about how big your corpus is. Also, don't ask her if she can pass the turing test. She might not talk to you again.

I wrote a blog post explaining the motivation and what is there behind the scenes if you are interested

CHAPTER 2

Installation

To install markovipy, run this command in your terminal:

```
$ pip install markovipy
```

This is the preferred method to install markovipy, as it will always install the most recent stable release.

If you don't have pip installed, this Python installation guide can guide you through the process.

Usage

To use markovipy in a project:

```pycon
>>> from markovipy.markovipy import MarkoviPy
>>>
>>> # create MarkoviPy object
>>> obj = MarkoviPy("/Users/tasrahma/development/projects/markovipy/corpus/ts_eliot/
↪Gerontion_utf8.txt", 3)
>>>
>>>
>>> # arguments passed, is the initial corpus file and the markov chain
↪length(defaults to 2 if nothing passed)
>>> obj.generate_sentence()
'Cammel, whirled Beyond the circuit of the shuddering Bear In fractured atoms.'
>>>
>>> obj.generate_sentence()
'After such knowledge, what forgiveness? Think now History has many cunning passages,
↪contrived corridors And issues, deceives with whispering ambitions, Guides us by
↪vanities.'
>>>
>>> obj.generate_sentence()
'Gull against the wind, in the windy straits Of Belle Isle, or running on the Horn,
↪White feathers in the snow, the Gulf claims, And an old man, a dull head among
↪windy spaces.'
>>>
>>> obj.generate_sentence()
'Silvero With caressing hands, at Limoges Who walked all night in the field overhead;
↪Rocks, moss, stonecrop, iron, merds.'
>>>
>>> obj.generate_sentence()
"Gives too soon Into weak hands, what's thought can be dispensed with Till the
↪refusal propagates a fear."
```

- Free software: GNU General Public License v3

- Documentation: https://markovipy.readthedocs.io.

Features

- More tests to be added. As of now, some minimal tests have been written. Contributions more than welcome.
- Create a web-interface with some fancy buttons/UI which would give you random quotes.

Links

- Blog post

Installation

Stable release

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From sources

The sources for markovipy can be downloaded from the Github repo.

You can either clone the public repository:

```
$ git clone git://github.com/prodicus/markovipy
```

Or download the tarball:

```
$ curl  -OL https://github.com/prodicus/markovipy/tarball/master
```

Once you have a copy of the source, you can install it with:

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

Usage

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↪refusal propagates a fear."
    >>>
```

Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

Types of Contributions

Report Bugs

Report bugs at https://github.com/prodicus/markovipy/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" and "help wanted" is open to whoever wants to implement it.

Implement Features

Look through the GitHub issues for features. Anything tagged with "enhancement" and "help wanted" is open to whoever wants to implement it.

Write Documentation

markovipy could always use more documentation, whether as part of the official markovipy docs, in docstrings, or even on the web in blog posts, articles, and such.

Submit Feedback

The best way to send feedback is to file an issue at https://github.com/prodicus/markovipy/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

Get Started!

Ready to contribute? Here's how to set up *markovipy* for local development.

1. Fork the *markovipy* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/markovipy.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv markovipy
$ cd markovipy/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 markovipy tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.

2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.

3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check https://travis-ci.org/prodicus/markovipy/pull_requests and make sure that the tests pass for all supported Python versions.

Tips

To run a subset of tests:

```
$ py.test tests.test_markovipy
```

CHAPTER 7

Indices and tables

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