
Generative Poetry

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1.1 Generative Lexicon (lexigen.py)

These functions allow for controlled random sampling of words from Project Datamuse's API.

1.2 Visual Poem (PDF,PNG) Generation (pdf.py)

These functions allow for the creation of all currently supported types of visual poems.

1.3 Poem Text Generation (poemgen.py, jolastic.py)

These functions generate the actual text of poems.

1.4 Sampling and Text Processing from Online Libraries (decompser.py)

With the decomposer module, one can sample random documents (books, etc.) from Project Gutenberg and Archive.org and rearrange the texts using Markov chain algorithms, cut-up, or by swapping instances of a part of speech between two texts.

The ParsedText class has several methods for random sampling.

1.5 Utilities

These functions are common utilities used by other modules.

1.6 Try now

1.6.1 Colab (recommended for most)

You can install this software and launch the interactive menu for creating visual poems from the following [link](#) to a Jupyter notebook hosted on Google Colab.

Note: this will only work on desktop and tablet effectively because of screen-size issues. Keep the [Github notes on usage](#) open to consult for reference.

1.6.2 Installing On Your Computer

Alternatively, if you install this on your own machine (see below), you can initialize the interactive menu by running the following command from a terminal/shell: `generative-poetry-cli`

1.6.3 Windows

Because this library currently relies on the Python package `hunspell`, which does not support Windows, use Docker to launch a Linux-based container, then use `pip` to install, and enter the Python interactive shell within:

```
docker run -t -d python python3 -m pip install generativepoetry && python3
```

1.6.4 OSX

OSX users must install `hunspell` beforehand:

```
brew install hunspell
```

Then download the `en_US` dictionary from <http://wordlist.aspell.net/dicts/> and unzip it to `/Library/Spelling/` and install using `pip`:

```
python3 -m pip install generativepoetry
```

You will also need Microsoft's core font TTF files in `/Library/Fonts/`.

1.6.5 Linux

Ubuntu/Debian users should install hunspell-en-us, libhunspell-dev, and libdb++-dev beforehand and then install with pip:

```
sudo apt-get install hunspell-en-us libhunspell-dev libdb++-dev  
python3 -m pip install generativepoetry
```