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Zen Markov Machine

2018-08-23 BY GENE

Today I used the <u>requests</u> and <u>BeautifulSoup</u> Python libraries to harvest 101 <u>Zen koans</u>. Next I used the <u>NLTK</u> and <u>markovify</u> libraries to generate random statements:

```
import sys
import os
import nltk
import markovify
def get files(path):
    file_list = []
    for fn in os.listdir(path):
        name = path + '/' + fn
        if name.endswith('.txt'):
            file_list.append(name)
    return file_list
def get sentences(files):
    sentences = []
    for f in files:
        fh = open(f, encoding='ISO-8859-1')
        data = fh.read()
        fh.close()
        sentences.extend(nltk.sent_tokenize(data))
    return sentences
```

This code lives on my machine and assumes a directory of text files to process (and Star-Trek is one!) Anyway, here are some Markov generated Zen statements:

```
In [73]: run markov.py Koan 10 500

0 He grew so skillful in these arts that his nephew, whom he had used to ve

1 He obtained milk from his heart to heart, and in this life and with this

2 He changed his name to Tekisui, which means a drop of which is the founda

3 He apologized profusely to the point of satisfaction.

4 The elder one was learned, but the more seemed to have gained for having

5 The nephew seemed pleased to meet a traveler to deliver.

6 When he next appeared before his teacher for a painting.

7 In the early days of the illuminated ones as flowers appearing in one's e

8 She met a Shinshu priest who taught her the name of the mountain where he

9 Stingy in Teaching A young wife fell sick and died.
```

Pretty vague/schizophrenic... Here are a couple choice ones though:

- "Study Zen in that instant."
- "When witnessing the good action of another, advise yourself."

Anyway, after studying the output of this over different groups of documents, I have found that the works of Shakespeare offer the best simulated sentences:

```
In [191]: run markov.py 'Shakespeare' 10 200
```

- 0 I speak in his dishonor dies, Or my true complaint, And given grace a dou
- 1 In this hot love on fortune tend: For who hath read to her?
- 2 Worthy fellowes, and like a peasant, obscuring and hiding from me anon: G
- 3 Go to, a bargain well is not Troilus in some other sort then your selfe;
- 4 I should be made of grapes.
- 5 The seaman's whistle Is as a performance Do's an irresolute purpose Kin.
- 6 Alas, alas: It is well I haue issue a my shoulders, no sighes but a hot I
- 7 You may wear it as it were the means to pay thee bounteously, Conceal me
- 8 Give me thy mind; I cannot draw a deed of gift After his brother: and imp
- 9 I had been made for me; I had as lief have been often burst, and now forw

Haha :-)

What about the Meditations by Marcus Aurelius?

In [3]: run markov.py 'Misc/Meditations' 10 200 3

- 0 To follow reason for ordinary duties and actions is common to him and to
- 1 For there is not anything.
- 2 For thou must consider from whence it came, of what things they seek afte
- 3 If therefore nothing can happen unto anything, which is not incidental un
- 4 So one, so another: and all things in the world hath in the ordinary cour
- 5 The third and last, to them that are at the point of death.
- 6 The sum then of all; whatsoever doth happen in the world, is, in the cour
- 7 Whereas, he should rather comfort himself, that either no sense at all, o
- 8 yea thou that art but for a while, is common unto all.
- 9 It were indeed more happy and comfortable, for a man joyfully to depart a

Hmmm.

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