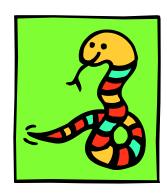
NLTK Texts and Corpora

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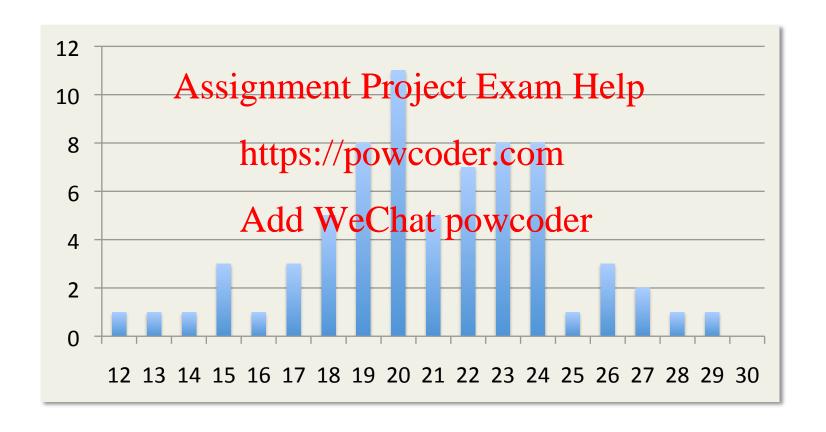
https://powc.pder160m
Marc Verhagen, Brandeis University
Add WeChat powcoder



Today

- Quiz 1 results
 - questions 8, 9, 11 and 12 updates
- Putting list comprehensions to bed
 - [[(x,y) for x linttps 1//pfowe indest 2 φm
- Animals, Dogsandwe Zonat powcoder
 - doctest revisited
- Coding standards
- NLTK Texts and Corpora
- Assignment 3

Quiz 1 Results



List comprehensions

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Aminals in the Zoo

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Python style guide

- https://www.python.org/dev/peps/pep-0008/
- Install and run \$ pip3 install pep8

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- Key insight: code is read much more often than it is written. Style guides are about consistency and readability
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- But... always:
 - Guides are just guides
 - There is danger in getting distracted too much by the guide
 - A Foolish Consistency is the Hobgoblin of Little Minds

Corpora

- Large set of text
 - Structured (has levels of annotation)
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 Balanced

 - Samples of hetalswood er.com
 - competence versus performance der
- Used for
 - Hypothesis testing
 - Statistical analysis
 - Training examples for supervised machine learning

Distribution

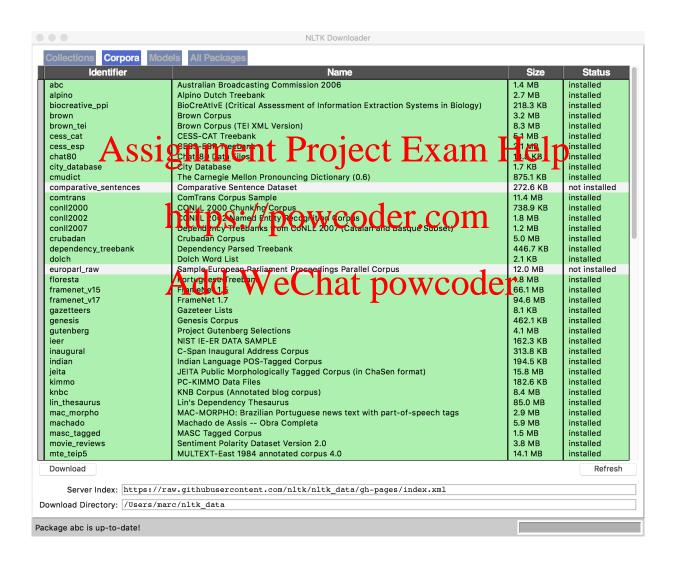
"You know a word by the company it keeps"

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- Distribution

 - https://powcoder.com
 Frequency distribution
 - Neighboring We Chat powcoder
 - Concordance/KWIC
 - Collocations
 - Similar words
 - Words that have the same neighbors

Corpora in NLTK



Corpus reader

- Define common interfaces for corpora that have different formats
- Assignment Project Exam Help
 High-level tasks can then just use these common interfaces https://powcoder.com
- Sample corpus de attechimplemented in NLTK
 - PlaintextCorpusReader, CategorizedPlaintextReader,
 CategorizedTaggedCorpusReader,
 BracketParseCorpusReader,
 DependencyCorpusReader, WordlistCorpusReader ...

Frequency Distributions and Conditional Frequency Distributions

- Taking text provided by corpus readers, we can build frequency distributions and Assignment Project Exam Help conditional Frequency distributions (or to compute probabilities and we Chat powcoder
- Using these distributions, we can inspect data, or build language models or classifiers (See Chapter 6 for building classifiers)

Conditional Frequency Distributions

a collection of frequency distributions, each one for a different "condition"

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Condition: News Condition: Romance

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could	1 Idd WCC	mai	could	## ## ##
will	##		will	IIII

NLTK

- Text
- FreqDist_{Assignment Project Exam Help}
- CorpusReader https://powcoder.com
 - PlainTextCorpusReader
 - Add WeChat powcoder
 Categorized Tagged Corpus Reader
- ConcatenatedCorpusView
- StreamBackedCorpusView