

Week 1: Natural Language Toolkit (NLTK)

Assignment

1. Complete W3 Schools' Python RegEx (regular expression) tutorial:

https://www.w3schools.com/python/python_regex.asp

Including the “Try it yourself” buttons!

2. Watch the video “Understand NLP: NLTK” in section 10 of the LinkedIn Learning course, “Data Science Foundations: Python Scientific Stack”

<https://www.linkedin.com/learning/data-science-foundations-python-scientific-stack-17064277/understand-nlp-nltk?u=50251009>

All University staff and students have access to LinkedIn Learning; you can search for it within the MyEd portal and connect your LinkedIn Learning account to your University account.

3. Read “Why I Dig: Feminist Approaches to Text Analysis” by Lisa Marie Rhody:

<https://dhdebates.gc.cuny.edu/read/untitled/section/508c8664-15c8-4262-a72a-e49299873d11>

4. Watch sections 2-5 in the LinkedIn Learning course, “Processing Text with Python Essential Training”:

<https://www.linkedin.com/learning/processing-text-with-python-essential-training/reading-raw-files?u=50251009>

5. Note how the article from #3 and the video from #4 talk about stop words. What differences do you see in the value they each put on stop words?

6. OPTIONAL: Complete #4-13 (“Tokenising Text” through “Part-of-Speech Tagging Text”) in the Library Carpentry: Text and Data Mining

<http://librarycarpentry.org/lc-tdm/>

Complete the exercises in your own Jupyter Notebook!

Don't miss out on the extra resources (not part of the assignment) on the next page!

Go Further

Read: the NLTK book, Chapter 1, Language Processing with Python:
<https://www.nltk.org/book/ch01.html>

Read: Word Embeddings: A Very Short Introduction by Anouk Lang:
<https://aelang.github.io/word-embeddings>

Helpful Resources

- Natural Language Processing with Python – Analyzing Text with the Natural Language Toolkit, 3rd Edition, by Steven Bird, Ewan Klein and Edward Loper (2019):
<https://www.nltk.org/book/>
- NLTK Documentation:
<https://www.nltk.org>
- NLTK Demos (no coding required!):
<http://text-processing.com/demo/>

