

Sources: <http://home.uchicago.edu/~jcarlsen/AdvText.zip> (453 MB)
<https://github.com/rcc-uchicago/TextViz>

I. General Platforms for Visualizing Data (for inspiration)

Tableau : tableau.com/academic/teaching (Sign up for an educational account)

D3 (Javascript) Gallery : github.com/d3/d3/wiki/Gallery

bokeh (Python) / rbokeh (R) : bokeh.pydata.org / hafen.github.io/rbokeh

II. Basic Tools for Textual Analysis (+ Part-Of-Speech & Named Entity Recognition)

Where can I get digital texts? = Online repositories; OCR (paper → digital plaintext)

a. **Voyant Tools** : voyant-tools.org (word frequencies, word clouds, KWIC)

Python commands (NLTK: Text object; collocations, KWIC, word frequencies) :
Basic Text analyses.ipynb

b. **POS & NER** : **stanford-postagger-3.7.0.jar** , **stanford-ner-3.7.0.jar**

List of POS tags:

https://www.ling.upenn.edu/courses/Fall_2003/ling001/penn_treebank_pos.html

Python (SpaCy) POS & NER : **POS-tagging and Lemmatization in SpaCy.ipynb**
NER in SpaCy.ipynb

SpaCy installation instructions: <https://spacy.io/usage>

SpaCy NER tags : <https://spacy.io/usage/linguistic-features>

TAPoR Tools : tapor.ca

HathiTrust Research Center : analytics.hathitrust.org

HTRC Bookworm (Ngram search) : <https://bookworm.htrc.illinois.edu/develop/>

Visual Text Explorer : edoc.uchicago.edu/vte “simultaneous close and distant reading”

III. Tools for Stylometry (HCA Dendrogram & k-means PCA)

a. **LEXOS (Comparative Stylometry : Dendrogram + PCA)** : lexos.wheatoncollege.edu

b. *Python-based Stylometry* : **Stylometry_HCA.ipynb** , **Stylometry_PCA.ipynb**

IV. Tools for Topic Modeling + Word2vec

a. *MALLET Topic Modeling* : mallet.cs.umass.edu

TopicModelingTool.jar : standalone Java-based application for Topic Modeling

b. *Python-based Topic Modeling* (via the gensim library, NLTK + SpaCy) :

Topic Modeling (gensim LDA + NLTK + SpaCy)_Shakespeare.ipynb
Topic Modeling evaluations_Shakespeare.ipynb

c. *Python-based Word2vec & TF-IDF* (gensim) : **Word2Vec all Shakespeare.ipynb**
Word2Vec TF-IDF Shakespeare.ipynb

V. Tools for Text Reuse

a. **Philologic4** : <http://anomander.uchicago.edu/text-pair/>
<https://textual-optics-lab.uchicago.edu/>

PCA + BLAST (for genomic/literary sequence analysis) : pvierth.herokuapp.com