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## Part 1: NLP POS Substitutions and Tones for Poets

Find 20 (10 if you have trouble!!) poems from 2 poets [for example Robert Bly and Emily Dickinson ]  
claim your poets hereLinks to an external site..

use this notebookLinks to an external site. as your building block

See the protipsLinks to an external site. in this folder as detailed guidance for your three types of  
experiments for Human Readability :-> POS , Similarity and [change] Vectorization

Scrape 2 poems from 2 Poets :

Every person must pick and scrape 2 poems from two poets, A, B from  
allpoetry.com

use the provided code as an example for scraping

optional [Do two distillations including: POS, embeddings POS; do embeddings to find which poets are  
closest to each other in style ] extra credit 10 points

in one json data structure, that you write to file, save it under the poets name, in your team folder in the  
drive I shared under folder 'nlp-poetry'

for each poet

store poet name,

for 2 of their poems

poem name, poem itself (text)

Store all POS for each poem

Store the adjectives, nouns and verbs along with the rest of the poems, the author etc. in a json data  
structure.

Transpose verbs, Adjectives and nouns

replace poet A POS with poet B POS based in semantic similarity, save the new poem as

poet1-poet2-poemname.txt text file

Poem 1 from Poet A with POS from Poet B

and vice versa

Poem 2 from Poet A with POS from Poet B

and vice versa

Perform Summarization

Perform Topic Modeling

<https://allpoetry.com/>

37	Jack	Kalavadia	Team Spartans	Walt Whitman	John Keats	10/23/2023 6:33:34 PM
38	Pramatha	Nadig				
39	Rishikesh	Andhare				
40	Rutvik	Moradiya				

## John Keats

<https://allpoetry.com/John-Keats>

Daisy's Song  
Dawlish Fair  
Dedication To Leigh Hunt, Esq.  
Draught Of Sunshine  
Galloway Song  
Party Of Lovers  
Prophecy: To George Keats In America  
Song About Myself  
Thing Of Beauty (Endymion)  
crostic : Georgiana Augusta Keats  
Extempore  
Sonnet By J.H.Reynolds  
Apollo And The Graces  
Asleep! O Sleep A Little While, White Pearl!  
Ben Nevis: A Dialogue  
Bright Star  
Calidore: A Fragment  
Character Of Charles Brown  
As The Time Draws Nigh  
As Toilsome I Wander'd  
Ashes Of Soldiers  
Assurances  
Bathed In War's Perfume

<https://allpoetry.com/Walt-Whitman>

## Walt Whitman

Ages And Ages, Returning At Intervals  
Boston Ballad  
Broadway Pageant  
Hand-Mirror  
Leaf For Hand In Hand  
March In The Ranks, Hard-prest  
Noiseless Patient Spider  
Paumanok Picture  
Ah Poverties, Wincings Sulky Retreats  
All Is Truth  
American Feuillage  
Carol Of Harvest For 1867  
child said, What is the grass?  
Child's Amaze  
Clear Midnight  
Farm-Picture  
Glimpse  
Promise To California  
Riddle Song  
After The Sea-Ship  
Sight in Camp in the Daybreak Gray and Dim  
Song  
Woman Waits For Me  
Aboard At A Ship's Helm  
Adieu To A Solider  
After an Interval  
Among The Multitude  
An Army Corps On The March  
Apostroph