

Set Up the Data, Pull out Obama	
Get the Word Counts for Obama Article	<ol style="list-style-type: none"> <li>1. Create new column word_count that counts the number of words using count_words() function</li> </ol>
Sort the Word Counts for Obama Article	<ol style="list-style-type: none"> <li>1. .stack() to put the word_counts() into a table and give the table a new name.</li> <li>2. .sort() by 'count' in descending order</li> </ol>
Computing TF-IDF	<ol style="list-style-type: none"> <li>1. .text_analytics.count_words to have a word_count dictionary that list the frequency of words in the article</li> <li>2. .text_analytics.tf_idf[column name] shoulds a dictionary that shows the tf-idf</li> <li>3. Add tf_idf into the dataset</li> </ol>
Examine TF-IDF for Obama Article	<ol style="list-style-type: none"> <li>1. One line code to get word_counts and sort word_counts</li> <li>2. Result will show the word and the relevant tf-idf in a table</li> </ol>
Manually Distances betwtext_analyticsee n a Few People	<ol style="list-style-type: none"> <li>1. Extract Bill Clinton and Beckham from the people_wiki data set.</li> <li>2. Is Obama closer to Clinton or Beckham? Compare both tf-idf with cosine distance (the lower the cosine distance, the better)</li> </ol>
Nearest Neighbor Models for Wi	<p>.nearest_neighbors.create knn_model.query()</p> <p>- Should return the references closest to the center you dictated</p>