Sentiment Analysis Without Machine Learning Putting Everything Together

ACTIVITY SLIDE

Write a program that:

- 1. Does the usual setup
 - a. Loads the newspaper3k library
 - b. Adds Article and nltk to your program
 - c. Downloads, parses, and provides nlp processing to your article
 - d. Saves the text of the article in a variable
- 2. Starts a count of both positive and negative words.
- 3. Splits the text of the article into a list of all the words in the article
- 4. Look through each word of the text
 - a. If the word is positive add to the number of positive words seen
 - b. If the word is negative add to the number of negative words seen
- 5. Check if there are more positive words or negative words.

Extension

Right now, you load one article into your program at a time. How about looking at several articles in one program!

- Create a list of URLs of articles.
- 2. For each article in that list, download it, parse, it, and look through each word, deciding if the review is positive or negative.
- 3. Count the number of positive reviews.
- 4. Count the number of negative reviews.
- 5. Are there more positive reviews or more negative reviews? Print your answer to the screen.

DISCUSSION

- Where are some places your program might still have problems when it comes to sentiment analysis? How might you fix these problems?
- How about 2-grams (aka bigrams)? Our program currently view "not good" as just the words "not" and "good" rather than "not good" as a whole.

Unit Learning Goals

You will be able to:

- Write and run a program in Google Colab Notebook
- Write a program using conditionals
- Write a program that iterates through a list
- Write a program that stores input in a variable to be used later
- Write a program that sends information to the screen
- Write a program that changes numbers stored in variables.
- Debug a program that does all of the above