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Lecture 15: Semantic Text Analysis & Next steps

Fall 2017. Oct 30

CODE, CULTURE, AND PRACTICE

Using Textblob

Modeling words in language with TextBlob

```
from textblob import TextBlob
```

- creating a textblob

- listing the words and punctuation tokens

- getting parts of speech

- printing sentences

- writing a basic classifier

  – using sources to determine a feature (e.g. average line length) to create a model

Textblob not found?Restart Python and ←-run the import statement here again Sometimes textblob gets confused.
It might take some time to import and process each command.

No textblob? Install textblob from command line with:
pip install –U textblob
or
conda install -c sloria textblob=0.11.0

Corpora problems?
Type this in the command line:
python -m textblob.download_corpora

Sentiment Analysis

Beyond the word and syntax level towards meaning

- # Sentiment- attitude or polarity
  - movie review*
  - How to extract out a feature
    - happy remarks are long, negative comments are short and snippy
    - number of words, number of exclamation points, number of prepositional phrases per sentence, length of document (but in newspapers they're all similar length)
  - build an analysis system from scratch

  *Movie reviews were used to train the classifier included with TextBlob, so it will prob- ably happen that words and phrases pertaining to movies and used in reviews will be better identified as subjective or objective.

Angela Chang @anjchang · 1h
Does not commute, does lot compute

Angela Chang @anjchang · 2h
Hello IN374!

Nick Dell'Omo @nbd712 · 2h
@EmersonCollege hey guys

please upload to canvas for class participation credit!

Inspirations
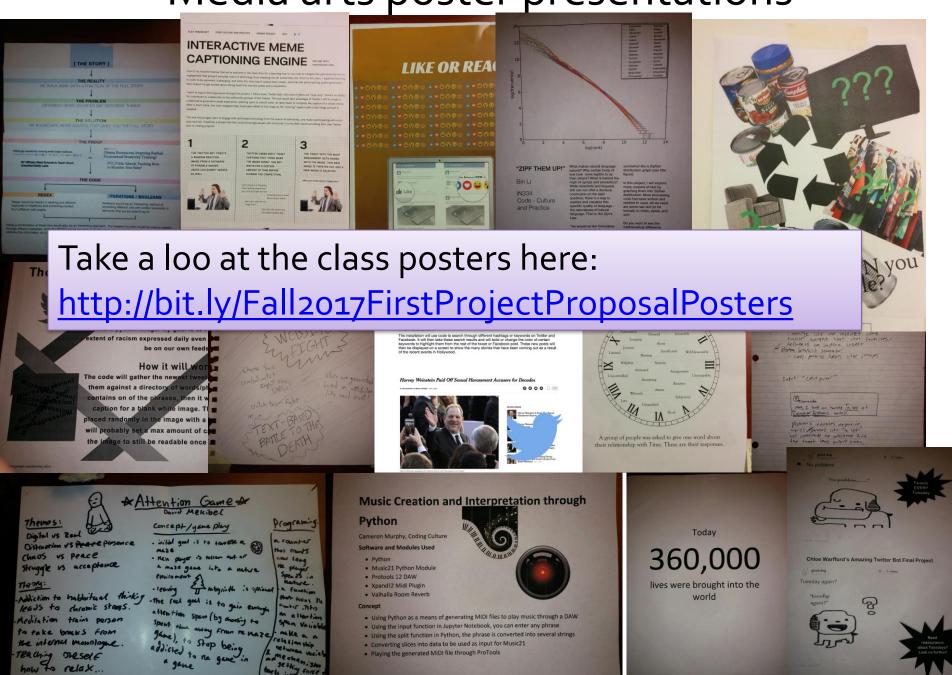
http://iwantyoutowantme.org/process.html
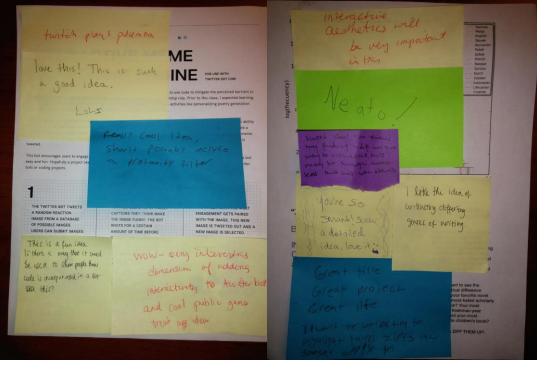
- Jonathan Harris digital artwork
  - Network Effect

    explores the effect of humanity
      http://networkeffect.io/
    artist statement http://number27.org/networkeffect
  - Balloons of Bhutan

    - traveled to Bhutan and asked people
      about happiest, a serious topic there.
      http://balloonsofbhutan.org
    artist statement http://number27.org/bhutan

- Gregor Hochmuth   http://grex.nyc/
  - 6 Years of radio news cut into a
    million searchable pieces

    http://dont-play-with-your-news.com/

Media Art database
ttp://docubase.mit.edu/

Media arts poster presentations

Take a loo at the class posters here:
http://bit.ly/Fall2017FirstProjectProposalPosters

Feedback at the end of class

twitter
regex
scraping
data visualization

Fill out the assignment here:
http://bit.ly/2017FirstProjectProposal

Homework

1

Upload the notebook for class participation and try to post to Twitter using code

http://bit.ly/2017FA_TextBlobTwitterClss

2

Fill out the proposal and peer review feedback form

http://bit.ly/2017FirstProjectProposal
or
https://emerson.instructure.com/courses/1514833/assignments/8775157

Summary of today

- Technical practice
  https://canvas.emerson.edu/courses/1514833/files/folder/Lecture15
  - Working with TextBlob, basic classifiers
  - Playing with twitter (check it out yourself at home)
- Think about your media arts project
  - Class participation credit for today (upload Sentiment Analysis file)
  - http://bit.ly/2017FA_TextBlobTwitterClss

- Optional – Install Processing
  - for image, video, and audio fun in your project
  https://processing.org/download/?processing