A-NEWS-MENT (FORMERLY SPOT-A-BOT) PROPOSAL

Sentiment Analysis Project
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INTRODUCTION

"In a world of alternative truths, even the language used in unbiased news reports is seldom neutral." - Joe Biden

- Better understanding of sentiment in news articles
- A-News-Ment
 - Web app
 - Choose a topic from dynamic menu of trending topics
 - Search keywords
 - Scrape USA Today and La Jornada for related/relevant articles
 - Generate sentiment scores for text from said articles
 - Goal is to be accurate on sentiment >= 60% of time

PROJECT DESCRIPTION & GOALS

Develop a sentiment measure that allows us to classify reporter or quote sentiment in NEWSPAPER ARTICLES

- Scraping USA TODAY (tentatively) AND LA JORNADA (mexican newspaper)
- We will use positive or negative sentiment tag lists to determine sentiment content

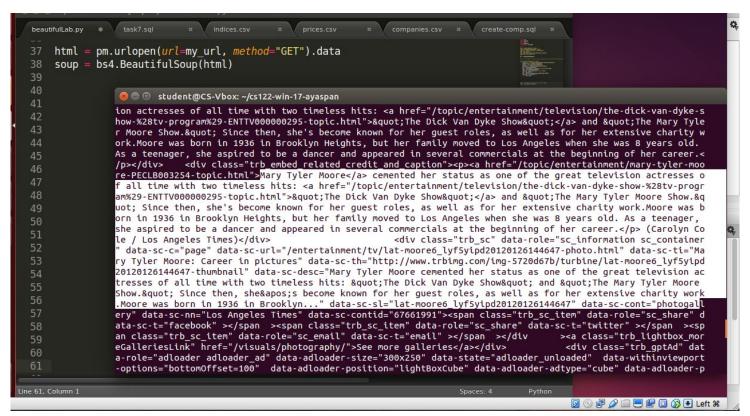
Deliverable

• A web application that will take user input, parse the input for keywords, and then return a sentiment analysis for articles about applicable keywords.

Possible Extension

• Correlate news sentiment to historical financial indicators

SCRAPING EXAMPLE



SENTIMENT SCORING MOCK-UP

Negative Positive 72%

ANTICIPATED TIMELINE

- 1. Data Collection (week 5)
 - a. Scrape news websites
 - b. News API to gather additional news
 - c. Yahoo API to gather information on financial indicators
- 2. Data Cleaning (week 7)
- 3. Sentiment index development (week 8)
 - a. Scrape text of newspaper sites and count presence of words in the positive and negative word lists
 - b. Construct positive and negative word lists for Spanish
- 4. User Interface (week 9)
- 5. Tentative correlations with financial indicators