Google Chrome Extension for Yelp Restaurant Reviews

Goal

Implement a chrome extension that uses sentiment analysis for Yelp restaurant reviews. It will help users summarize the overall reviews of the selected restaurant without having them go through the reviews.

What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.

Captain: Long Nguyen (lbn2)
Member(s): Thien Binh Dinh (tbdinh2)

Briefly describe any datasets, algorithms or techniques you plan to use

We plan on taking the rule-based approach for natural language processing. We will define two lists of polarized words (eg. "delicious" represents good sentiment, "gross" represents bad sentiment) to represent each sentiment. Each individual review will either be marked as "positive", "negative", or "neutral" depending on the number of positive and negative words that appear in their review. The goal of the extension is to count the number of positive, negative, and neutral reviews based on this rule-based approach.

How will you demonstrate that your approach will work as expected?

We will navigate to any restaurant page on Yelp. Instead of reading the reviews, we would run the extension, which would list the number of positive, negative, and neutral reviews

Which programming language do you plan to use?

JavaScript, HTML, CSS

Please justify that the workload of your topic is at least 20*N hours, N being the total number of students in your team. You may list the main tasks to be completed, and the estimated time cost for each task.

Instead of splitting time, or tasks, we plan on working together vigorously through each task to maximize our efficiency.
Task 1: Figure out the list of polarized words for both and positive sentiment
Task 2: Implement techniques to scan through each review, searching for keywords. Also consider new rules like limiting the number of keywords a sentence can have.
Task 3: Design basic UI for extension to present results of the search