
CS 410 Project:

WITNICA



"Why Is This Not In Coursera Already?"
Student sentiment feedback and analysis



coursera

A laptop screen is shown with a dark overlay. On the screen, there is a line graph with two data series: 'New Visitor' (blue line) and 'Returning Visitor' (green line). The 'New Visitor' line shows a general upward trend with some fluctuations, while the 'Returning Visitor' line is relatively flat. Below the graph, there is a pie chart with two segments, one blue and one green, corresponding to the data series. The text 'Have you ever used Coursera's notes feature?' is overlaid in white, bold font.

**Have you ever used
Coursera's notes feature?**

The problem

How do you track which topics you have most trouble with?

How can professors or TAs understand what to improve on?



A close-up photograph of a person's hands writing on a whiteboard. The person is wearing a dark long-sleeved shirt. Their right hand is holding a white marker and is in the process of writing on the whiteboard surface. Their left hand is resting on the whiteboard, with fingers spread. The background is blurred, showing some indistinct shapes and colors.

The solution

- Make it easy for students to submit feedback to any lecture
 - Make it easy for students and teachers to understand concerns
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The team



Rod

(Me)

How it works

Step 1

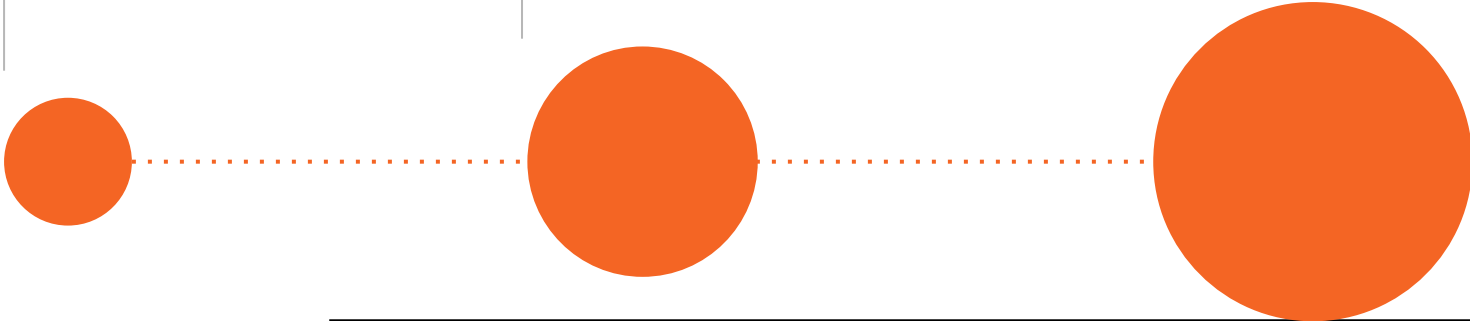
Student watches lecture video

Step 2

Student submits feedback in the middle of the video:
positive, confusion, too easy, ...

Step 3

Student or teacher can analyze collective feedback for a class



An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark blue and orange, with scattered clouds. The city lights are visible, and the Empire State Building stands out prominently in the center. The text is overlaid on the left side of the image.

The technology: A Chrome extension + Text topic analysis

Demo



How to install Chrome Extension

Step 1

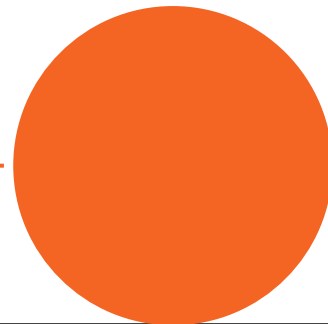
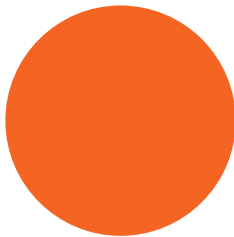
Download the extension directory

Step 2

Add a new local chrome extension, and copy the extension ID

Step 3

Update the extension ID string in inject.js and refresh extension



How to run topic analysis

Step 1

Copy the text you're
interesting in analyzing e.g.
content confusing for you

Step 2

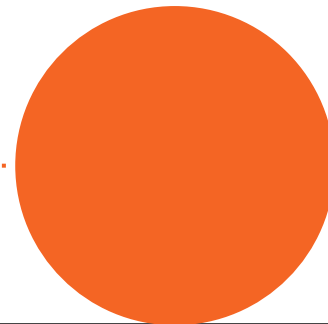
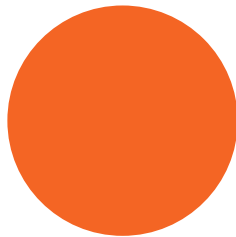
Install dependencies:

```
pip install gensim termcolor  
nltk
```

Step 3

Run the script:

```
python compute_topics.py  
confusing_text.txt
```



A close-up photograph of a person's hands working on a circuit board. The person is using a soldering iron to solder components. The background is blurred, showing some electronic components and a workbench.

Future work

- Make it more robust
 - Make the spreadsheet configurable
 - Publish the extension to the store
 - Port the sentiment analysis to Google Sheets app
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Thanks

