

Documentation:

This PDF contains documentation for the Final Project for Team Rhino: gdufek2@illinois.edu Browser Extension Relevant Passage Retrieval and Ranker. Implementation involves the creation of a Chrome Browser Extension called, "Improved Ctrl+F."

This documentation is split into function overview and Implementation and Usage.

Functional Overview:

This implementation is split into 4 main files and an image folder. The 4 main files include manifest.json, index.html, index.js, and content.js.

Manifest.json is a json object required by every chrome extension. It is where the description and title of the extension go, as well as Permissions are specified for certain functionalities.

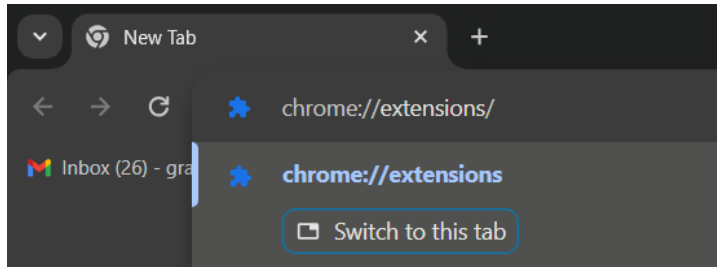
Index.html is the html file interface for the extension. It creates the text and display boxes, as well as the search button. It allows queries to be entered, and is heavily connected to the index.js.

Index.js is where most of the code takes place. It takes in the inputs from the html, connects with content.js for the webpage text, and performs the ranking functions. The ranking functions were based off of TF-IDF. In order to get the webpage text, Index.js calls upon content.js.

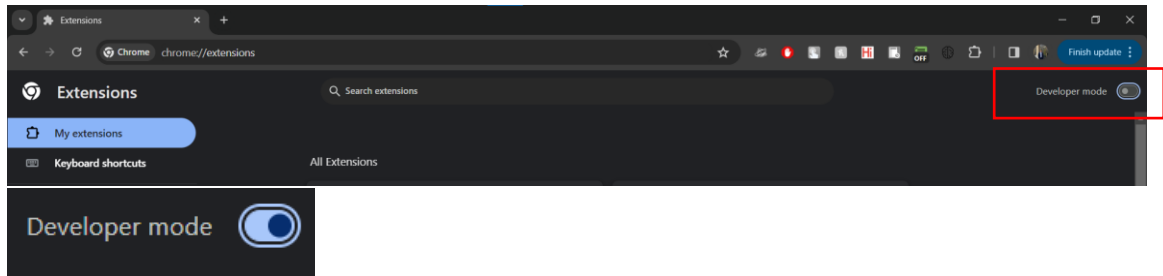
These files allow the extension to be utilized across webpages, and to provided a ranked passage output based on an input phrase.

Installation:

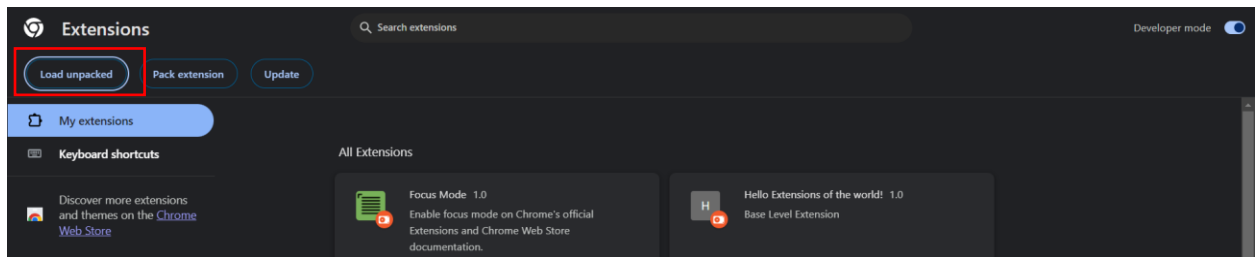
1. Navigate to https://github.com/DufekGrant/CS410_Final_Project
2. Download the zip file titled, "Improved_CtrlF.zip"
3. Unzip the zip file and save the folder
4. Navigate to <chrome://extensions/> in a chrome browser



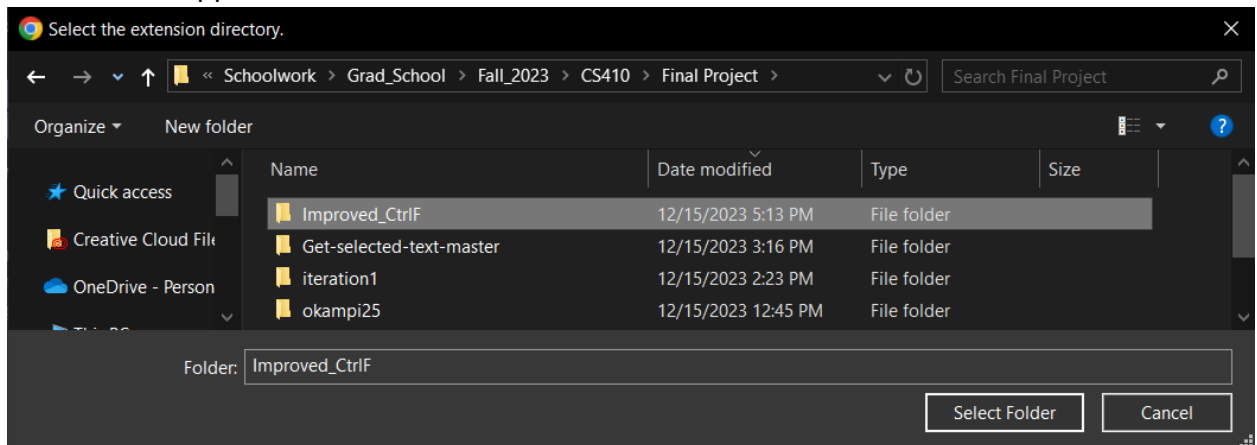
5. In the top right, switch on “Developer Mode”



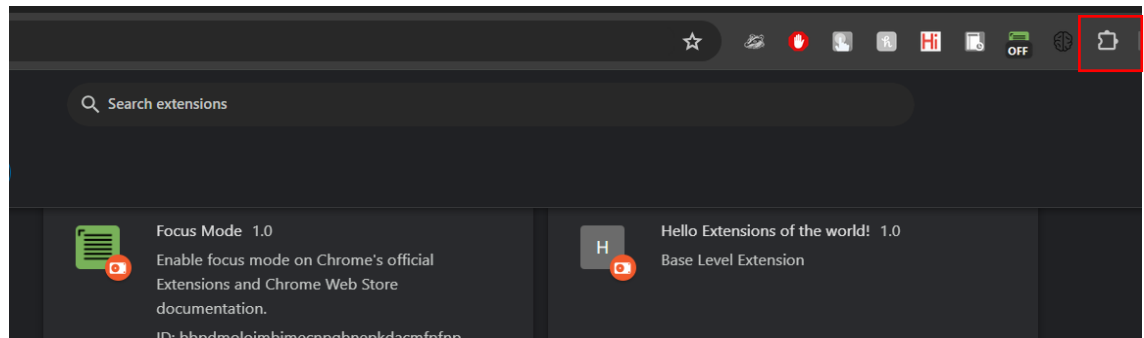
6. Select the “Load unpacked” option in the top left



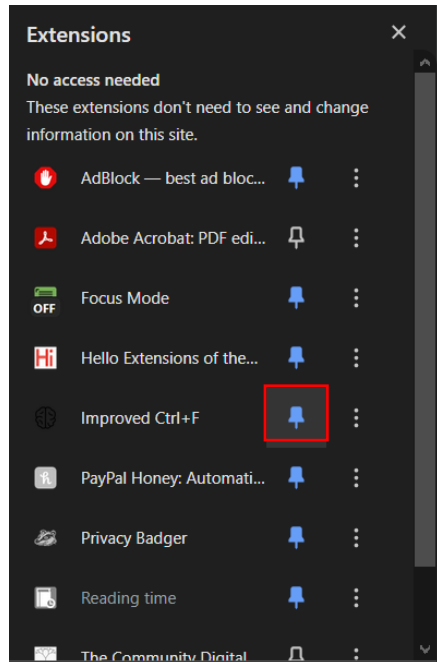
7. Select the unzipped folder that was downloaded earlier



8. Navigate to the extensions icon in the top right



9. Pin the extension



10. Navigate to an article of your choice and select the brain extension icon

