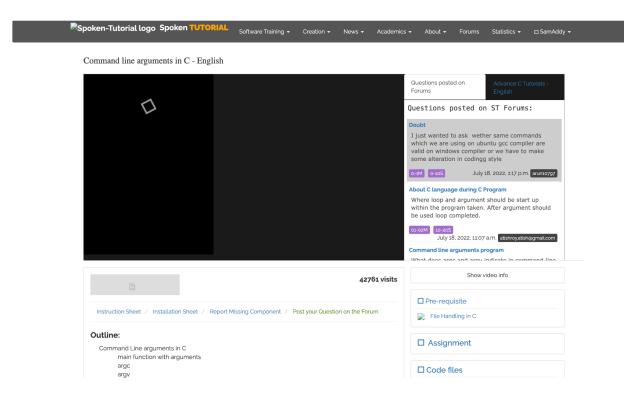
Setup and updation guide for the mind map generator in a spoken tutorial

Setting up :

Please follow the <u>installation guide</u> to set up the project, start the Django server and open up the home page in the browser. It would look similar to the following,



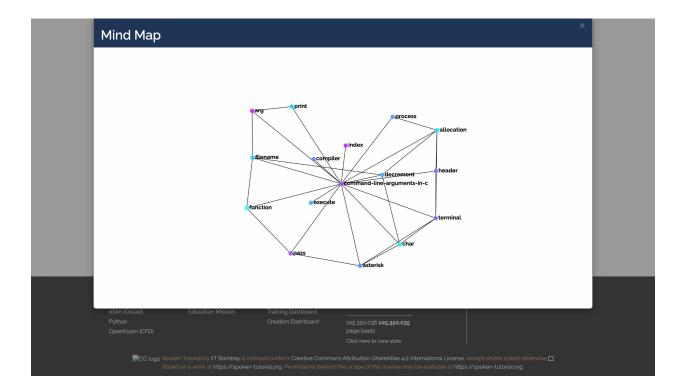
Generate a mind map for the given spoken tutorial :

The code scraps the contents from the page linked to the Timed Script section to generate the mind map. Scroll down to the bottom of the page to see a button labelled "Generate Mind Map" and click it.

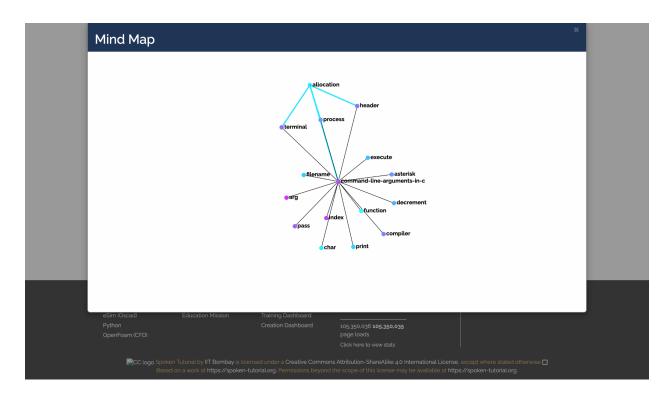
			□ Pre-requisite
Instruction Sheet / Installation Sheet / Report Missing Component / Post your Question on the Forum			File Handling In C
Outline: Command Line arguments in C main function with arguments			Assignment
argc argv Header files			Code files code-cmd/main-with-args.c code-cmd/
	Click Here		
Generate Mind Map			□ Script
			Timed Script
			□ Slides
			 slides/3L-logo.pdf slides/command-line-args.pdf <lislides command-line-args.tex<="" li=""> slides/ </lislides>
FOSSEE Project Aakash Labs Scilab Co-learn eSim (Oscad) Education Mission	Software Training Contacts for Training Training Dashboard	About Us News	Developed at IIT Bornbay
Python OpenFoam (CFD)	Creation Dashboard	105,350,036 105,350,035 page loads	

Redraw the mind map by emphasizing a particular keyword :

Clicking on the "Generate Mind Map" button will create a pop-up window, which would then display the mind map generated for that particular script in a few seconds. It would look similar to the following,



Further, based on the user's choice, they can select different keywords in the mind map by clicking to emphasize their relationships with other keywords, clicking a keyword would then redraw the mind map by highlighting those relationships as follows,



Users can close the pop-up using the ${\boldsymbol x}$ button at the top right.

Updation

- To avoid a particular word appearing in the mind map, it could be added to the words_to_ignore.txt. This file contains all the highly frequent words that were collected from all timed scripts on the website which are supposedly less informative.
- 2. All contributor names are stored in <u>contributors.txt</u> to avoid names appearing in the mind map, any new names can be added there.
- 3. Three different <u>lemmatizers</u> could be used (NLTK, SpaCy and StanfordCoreNLP), and new ones can be added to the same file.
- 4. Two different <u>keyword extractors</u> could be used (yake, BERT), and new ones can be added to the same file.
- 5. <u>Word2Vec</u> is used for generating word embeddings, other models such as BERT, and GPT could be used instead as well. The process would just involve training those models and using the embeddings in the same way.
- 6. Changes to the threshold could be updated to tune the density of the graph in the same <u>word2vec.py</u> file.
- 7. The D3.js force simulation configuration could be updated through the <u>app.js</u> file.