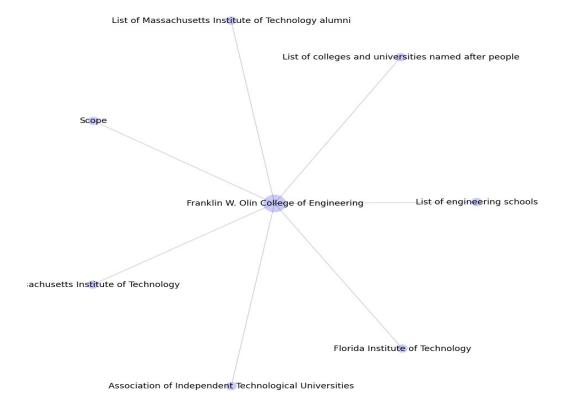
wikinet.py

ruby spring

- 1. Project Overview: What were you trying to accomplish? What was your general approach?
 - I started off with a generalized and somewhat ambiguous goal, because I've find that to be a good approach to coding. Start with a general structure that will support the type of thing you want to create, and then add functionality one small goal at a time, somewhat analogous to digital logic: one small step, then another and another, eventually leads to a large working system that does something that's (hopefully) useful to someone. The general goal was creating a visual map of a wikipedia article mapped to linked articles in that article. Once I got that done, I thought about how to refine the results, maybe filter the links for something more useful. I went with passing in a search-word or search-phrase that must be present in a link for it to appear in the visual mapping. Cool. But what if there are just way too many links, and I only want to find the first __insertArbitraryNumberHere__ links that contain my search-word/phrase? And then, what if I want to filter for multiple words or phrases instead of just one? And what about actually being able to easily access those links, simply by clicking on them from somewhere? I added functionality to answer all these questions, while adding robustness throughout and thinking about how to write my code in as few lines as possible.
- 2. Implementation: How does your code work? What libraries did you use? How would someone (for instance a NINJA) run your code? What data structures (e.g. lists, dictionaries) did you use in your program and why?
 - All but the last of these questions is answered by any good README file. I've got a pretty nice one in the wikinet remote repo, so I'd rather not rewrite it all here in less-than-pretty format. As for the last question, I mostly used strings and lists because those are some of the most common and useful structures for parsing text, which is basically what this entire assignment was about.
- 3. Include some examples of your program's output.



The above is a sample from filtering the article located at the center of the map for the search-phrases "franklin w. Olin" and "scope" with a cap of 15. Obviously the call did not return 15 nodes, an indication of fairly rare occurrence of a linked article containing both search-phrases. Below is the contents of the html file created and launched by the code:

- List of engineering schools
br>
- Association of Independent Technological Universities

 - Scope

- List of colleges
 and universities named after people
br>
- List of Massachusetts Institute of Technology alumni
br>
- - Florida Institute of Technology

4. Reflection: from a process point of view, what went well? what could you improve? Was your project appropriately scoped? Did you have a good plan for unit testing?

I kinda just add one unit at a time, where one unit is anything from a variable to an if statement to a forloop to a function to a class. It's about building layers of instruction on layers of goals. Having a general goal in mind is a good idea for programming projects so as to create a secure foundation, which I felt I did pretty well.