

**CMPSC 580
Junior Seminar
Spring 2019**

**Assignment 3:
Inspiration from an article
[GoogleDocs for Submission](https://goo.gl/forms/kx9hYGeDe7QybkC73)**

Starter Link for Google Docs

<https://goo.gl/forms/kx9hYGeDe7QybkC73>

Part 1: Ideas from Articles, Resources

It is assumed now that you have found your an area of interest and that you have also started to focus on a specific idea for your senior thesis project. As you read articles in your interest area, you have no-doubt found many ideas that were used by the authors (the “investigators”) to achieve some important task in their project. Perhaps their ideas (being in the public domain such as free software, libraries, open-source software and code, and similar resources) would be helpful to your own research, as well?

Imagine that your project will requires some computational automation and that you are to write code for this work. For this task, you will surely require a programming language such as Python or Java and will also require the use of several built-in libraries and, perhaps others from GitHub as well. In addition, to write you code, you will need an editor, on-line help from the community, a compiler or interpreter, as well as other resources to enable you to achieve results.

What to do

In this assignment, you are to describe two (2) ideas that you found interesting from your readings that you could apply to your own project idea. Since an idea requires some resource(s) to drive it to fruition, you are to think about what these amazing resources could be for each your inspirational ideas. Next, you are to consider how you could harness the same ideas for your own work, and what types of resources you would also require to make your work possible using these ideas.

You may need to read-over the methods sections of your articles to gain an understanding about which resources were used and then you will have to determine how the resources were able to assist the idea.

Questions in the Google Form to Address

If needed, go online to sites that offer articles to read from your interest area such as scholar.google.com to type a general keyword from your interest area. Look through the articles to get more ideas. Keep a note of these ideas for when you complete your leading questions in the Google Docs form (using the link provided above).

In your Google form, your questions will be the following.

1. In general terms, describe your area of interest.
2. What was /were the articles (citations) that you read to inspire an interest?
3. **First Idea:**
 - (a) What is your first inspired idea that you found in an article?
 - (b) What was the article (citation) that you read to find this idea?
 - (c) How do you think that this idea will help you in your own research work?
 - (d) Describe the types of resources that the investigators of the article required to apply the idea.
 - (e) When you adapt the first idea to your own work, what kinds of resources will you require? What kinds of challenges will you face here?
4. **Second Idea:**
 - (a) What is your first inspired idea that you found in an article?
 - (b) What was the article (citation) that you read to find this idea?
 - (c) How do you think that this idea will help you in your own research work?
 - (d) Describe the types of resources that the investigators of the article required to apply the idea.
 - (e) When you adapt the first idea to your own work, what kinds of resources will you require? What kinds of challenges will you face here?

In the next part, you will be introducing your a presentation over what and how the resources were to enable one of the two ideas.

Part 2: Lightning Talk and Slides

For Thursday's class, prepare a "lightning talk", lasting about 3–5 minutes, together with several accompanying slides (written in a software of your choice), in which you expand upon one of the two ideas (in general terms) and inform your peers about what kinds of resources were necessary to make the idea's benefit the research project.

What To Do

For your talk, please respond to the following questions. Remember you will have only three minutes in your talk and so you will have to be brief.

1. What is an idea that you got from an article?
2. What are some of the resources that the authors used to implement the idea?
3. How could you implement this idea for your own research? Or, what kinds of resources do you anticipate requiring to implement the idea?

Help?

Please let the instructor know of any questions that you may have. Please use email or make office-hour appointment slots if you would like to discuss an issue.