

**CMPSC 580  
Junior Seminar  
Spring 2019**

**Assignment 9:  
Assignment: Tools of Your Method,  
Outlines and a Methods Draft  
[GitHub Repository for Submission](#)**

## Objective

To prepare a working outline for your Methods section. This outline can only be completed after significant time has been spent to survey the *accessories to your method* (i.e., data, types of tools, algorithms, softwares, programming-languages and etc) which will be necessary for completion of your project and its success. After your survey time, you will present some of the more important accessories to your peers as a lightning-talk. On Thursday, your outline will further developed in class.

## GitHub Starter Link

<https://classroom.github.com/a/gsrRxAPL>

This link is from Assignment 5 and will be used to contain your work for your proposal.

To use this link, please follow the steps below.

- Click on the link and accept the assignment
- Once the importing task has completed, click on the created assignment link which will take you to your newly created github repository for this lab,
- Clone this repository (bearing your name) and work locally
- As you are working on your lab, you are to commit and push regularly. The commands are the following.

```
– git add -A
– git commit -m "Your notes about commit here"
– git push
```

## Introduction

In computer science, projects are largely composed of an original idea which is supported, or can be acted on, by automated technology. For instance, these automated technologies will be called, *accessories to the method* and take the form of data, types of software tools, algorithms, related softwares for comparison, programming-languages and etc.

From astronomy, much like using a telescope to see the stars in the sky, the computer, when coupled with its accessories to the method, investigators are able to see and study phenomenon that would otherwise be invisible to them. In this assignment, you will locate and study the accessories to the method which are relevant to your own project. You will likely encounter many types of accessories to your method which will turn out to be unnecessary to your work. In this assignment, you are to discern the important and from the irrelevant.

Once you have found an accessory to your method that you believe will benefit your work, be sure to make a note of the technology. You will be creating an rough outline for your Method Section in which each of your accessories will be introduced in some logical order. In lab, you will present some of the more relevant tools from your research as a lightning-talk. On Thursday, we will spend time to add more discussion to the outline in an effort to further develop it for your proposal.

### **Part1: Tuesday's Class; A Survey of Tools**

Spend time in class to determine which accessories will be relevant to your project. Be sure to ask questions about the technology's significance to your own academic pursuit. Does some new technology make sense to use in your project? Will this tool or software be necessary for the completion of your work? Will an algorithm or a tool that you found online help you to reach your research goals?

Once you have found the accessories that you feel will be helpful to your work, make an outline where each is on a separate line. On the line where you introduce an accessory, be sure add another line where you justify how your project will benefit from the accessory. You can change the order of introduction later as you see fit.

### **Part2: Wednesday's Lab; Lightning-Talks Over Relevant Accessories**

By lab, you will have completed your survey of potential accessories to your method and so you are to present two or three more relevant technologies to your peers in a presentation. You will create a short lightning-talk of about three minutes where you mention some of the more-relevant accessories for your work. For each accessory, be sure to mention what the technology is and why it is likely to be important to your work.

### **Part3: Thursday's Class; Add Detail to Outline and Begin Writing Your Methods Section.**

On Thursday's class, you will spend the class to re-read your outline with the aim of improving the voice and text. You will convert your outline in to text that will become your method's section. During the following week, we will using peer-editing to further improve this text (more on this later!).

### **Summary Of Deliverables**

- Present your genius to your peers in a **Lightning-talk**.

You will present two or three tools in a three-minute talk during lab at 2:30pm on Wednesday, 3<sup>rd</sup> April.

- **Outline** of the accessories to your method is due Thursday, 4<sup>th</sup> April.

Please place your outline in the following file: `writing/outline_Methods.md`, in your assignment 5 repository. It is encouraged that you use Markdown to write your outline as it will be easier for your work to be read on GitHub's website than otherwise. You may use Latex if you prefer.

- The **Method Draft From Outline** is due Tuesday, 9<sup>th</sup> April.

Place your draft under your original in the file `writing/outline_Methods.md` of your assignment 5 repository.

## Help?

I'm available in person and via email if you want to run any ideas by me, or if you are having problems with your LaTeX. To ensure that I can offer timely assistance, please ask for help early!