The final step in any project (and perhaps the most dreaded) is translating your work into writing. For this specific assignment you will **write ONLY the introduction**. There is no word count requirement for this assignment, but your writing should be complete. Here is a list of topics that *should* be addressed in each section but remember that it is more important to write well than to mindlessly answer questions – your writing should read like it belongs in a real paper.

1. Introduction
   1. What is metagenomics? What is a metagenome? Why would someone want to conduct a metagenomic study? What are the advantages and disadvantages?
   2. What were you looking for? Why is it important? Are there any closely related organisms that are also important? Is there a specific gene or quality of this organism that is unusual or interesting?
   3. What is the Sequence Read Archive (SRA)? What is in there and how is it organized? Who contributes data to this database and who pays for it? How does one get data from the SRA?
   4. What is Sequence Mapping? What Sequence Mapper are you using? How does it work? Who wrote it?
   5. Who let us use their computers? What is the difference between XSEDE, Jetstream, and Atmosphere? Who funds these projects?
2. Methods
   1. What data sets did you choose and why did you choose them? Was there a script you used? What kind of instance was this run on? Did an initial or precursory scan take place?
3. Results
   1. How many reads mapped to each genome (per data set)? What percentage of each genome was covered by at least 1 read? Any figures to add here?
4. Discussion
   1. If everything went well, interpret your results, what do they mean? What are some things that went wrong? What are you going to do differently next time?
5. Citations

The Introduction section will be due ##########. You should have in text citations and sources to support your writing, but they do not need to be formatted for this draft. It is perfectly acceptable for this assignment if you paste a link to the journal article in the Citations section – just be sure to number your links and use the number as an in-text citation.

In class today, we will each be writing one paragraph for the Introduction, with sources. I highly recommend taking this opportunity to try out a citation management program. If you are still pasting links into a citation-machine, or filling out fields in a citation-builder, then you are suffering unnecessarily. There are many programs with built in browser extensions that can save and cite web pages for you. A few of these programs worth looking into are: Zotero, Mendeley, and EndNote.