**Areas For Improvement**

**May 17, 2021**

*Reminder*: Our main research question is, *how did statistical techniques change over time in the ecological sciences?* This should be central to how our decisions are made when searching and then filtering for papers to read.

**A) Search Criteria**

1.

Comment made by Meredith: The WC=”ECOLOGY” field tag is not defined. What constitutes as “Ecology” for the Web of Science? To solve this, you can either:

* **Look for search criteria documentation on the Web of Science** (which will be helpful regardless) and look up within that documentation, how WC functions.
* **Remove WC=”ECOLOGY”** from the search criteria and add more search terms that will replace WC filtering. For example
  + **Replace “ecology\*” with “eco\*”** to include words like “ecosystem”, “ecology”, “ecocide”, “ecotype”, “ecosphere” etc. BUT be sure to NOT include words like “economy” and “ecofeminism” or too specific words like “ecophysiology”, “ecotone”.
  + Each time you determine your search criteria on Web of Science, SAVE that search criteria and then compare which articles stay or are removed in code.
    - Helpful functions to use in R:
      * duplicated( )
      * groupby( ) # compute group counts by year
      * hist( ) # for plotting

2.

Comment made by Ana: Test adding another prominent journal like *Journal of Ecology*.

3.

Comment made by Anastasia: Add unpublished data (i.e. conference abstracts, master/PhD theses).

Faucet et al 2018

**B) Filtering**

What do you want the library to look like? Repeating authors? Most popular authors across the century? Across each decade? Do we want to prioritize authors who were also major editors of ecology associations? Explore each combination in the get\_masterlist.Rmd code.

**C) Spreadsheet**

Add “Article Title” column. The ideal would be to have the exact same article title (capitalization and syntax) as exported by Web of Science. Later down the line, Anastasia can constrain all the syntax and capitalization to be the same no matter how it gets input, so datasets can be merged.