Plankton Project - Overview of Outputs

[Link to Google Colab Project](#)

1) Display a menu that asks what group of files the user would like to see.
Status: The menu and asking for user input works, but we still have to complete some of the
lines of code to display the correct information.

USER MENU

```
Do you want to view any results? y/n y

OUTPUT OPTIONS
====== GROUPS ======
A0 --> All files with 0 agreement
A2 --> All files with 1 agreement
A3 --> All files with 3 agreement

OM --> Files with 0 agreement but missing a tag

2M --> Files with 2 "Missing" tags
2C --> Files with 2 "Ciliate" tags
2L --> Files with 2 "L_Poly" tags
2O --> Files with 2 "Other" tags

3M --> Files with 3 "Missing" tags
3C --> Files with 3 "Ciliate" tags
3L --> Files with 3 "L_Poly" tags
3O --> Files with 3 "Other" tags

====== SEARCH ======
S --> View the tags of a specific plankton file

====== EXIT ======
-1 --> Cancel

Which output do you want to see? 2C
Your choice was 2C.
```

SAMPLE RESULT (This image shows only the first 10 files, but in the output, all 595 file names in this group are displayed.)

```
=== 2 MATCHED - Ciliate === 595 out of 4103
 1: SPCP2-1514880141-497646-001-1040-1352-48-56.jpg
 2: SPCP2-1514880148-497702-000-1596-1864-48-48.jpg
 3: SPCP2-1514880158-497768-000-960-2220-48-72.jpg
 4: SPCP2-1514880167-497831-000-1808-520-40-56.jpg
 5: SPCP2-1514880198-498045-000-2444-996-48-40.jpg
 6: SPCP2-1514880231-498287-000-2644-1612-55-72.jpg
 7: SPCP2-1514880257-498470-000-836-412-72-88.jpg
 8: SPCP2-1514880270-498569-001-2608-1172-64-72.jpg
 9: SPCP2-1514880286-498683-000-1144-660-56-80.jpg
 10: SPCP2-1514883602-522630-001-2096-1324-88-64.jpg
 11: SPCP2-1514883604-522645-001-68-1444-56-72.jpg
```

2) Ask the user what plankton file they would like to see the three classifications of.
Status:
- The code works, but we would like to work on displaying the prompt and result more nicely for the user.
- This feature is accessible through the user menu shown above.

SAMPLE RESULT
Format is [number of people who agreed, classification from person_1, classification from person_2, classification from person_3]

```
For which file do you want to see the tags list?
        SPCP2-1514880141-497646-001-1040-1352-48-56.jpg
          [2, 'Ciliate', 'Questionable', 'Ciliate']
```

3) Display charts that show how many files belong to certain groups.
Status: We have some graphs working, but we would like to know if there are other ways that you would like us to display the information, and/or any specific labeling/display specifications you would like for the charts that we already have.

Note: Since we are still working on lines of code to determine the files that have 3 people agreeing, we do not yet have a chart to show you for that group of files.

Number of agreement per file

Files with 2 agreement