



Animal & Plant Biodiversity

CMPS 340 | PA2 | Lion Coders

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Class Diagrams



GitHub Repo:

https://github.com/CS340-S-24-LionCoders/CS340_S_24_LionCoders.git

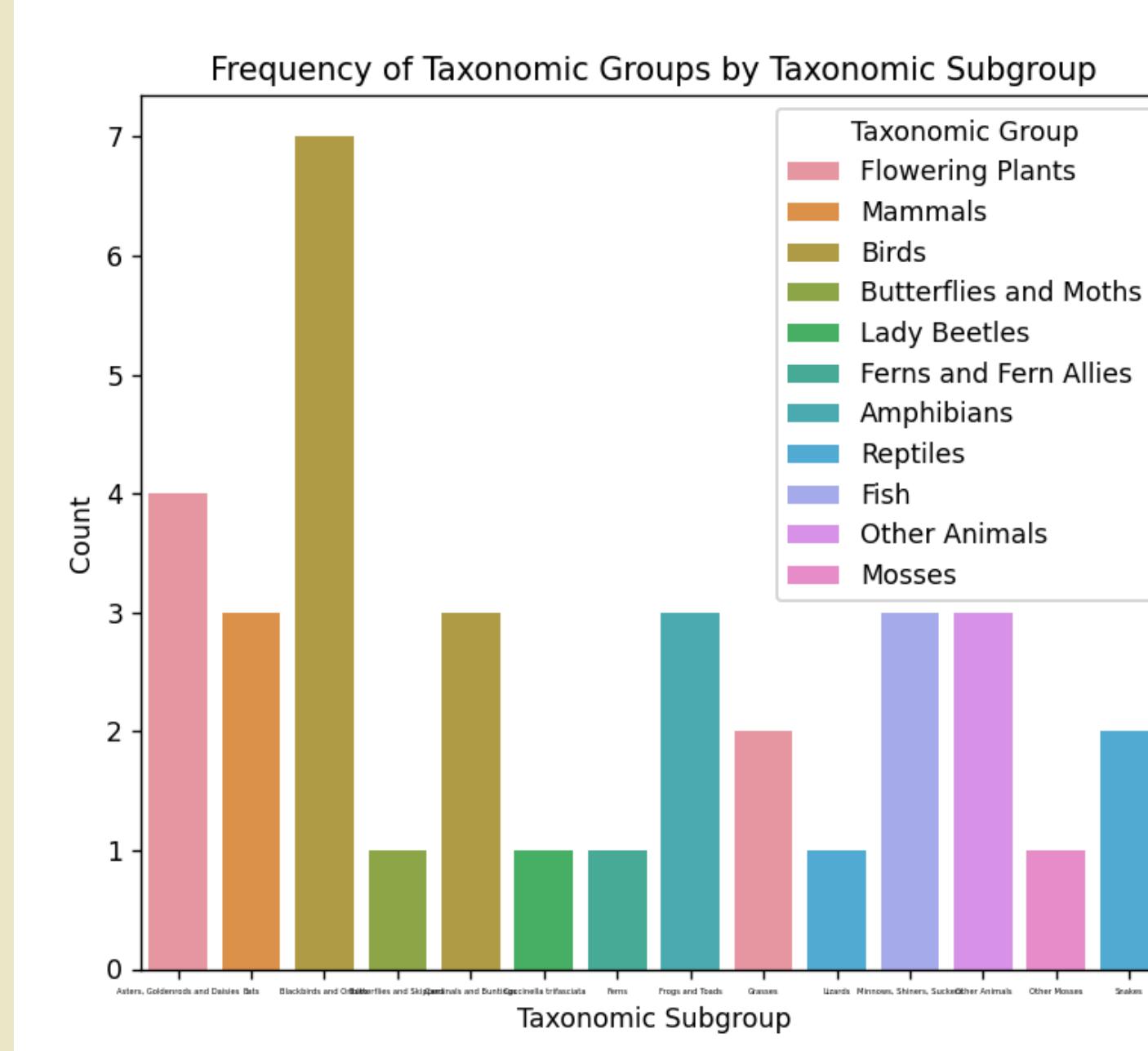
Test Data

County	Category	Taxonomic Group	Taxonomic Subgroup	...	Distribution Status
Yates	Animal	Amphibians	Recently Confirmed
Yates	Animal	Amphibians	Recently Confirmed
Yates	Animal	Amphibians	Recently Confirmed
Yates	Animal	Beetles	Recently Confirmed
...
Yates	Plant	Ferns and Fern Allies	Historically Confirmed
Yates	Plant	Flowering Plants	Possible but not Confirmed
Yates	Plant	Flowering Plants	Historically Confirmed
Yates	Plant	Flowering Plants	Historically Confirmed
Yates	Plant	Mosses	Recently Confirmed

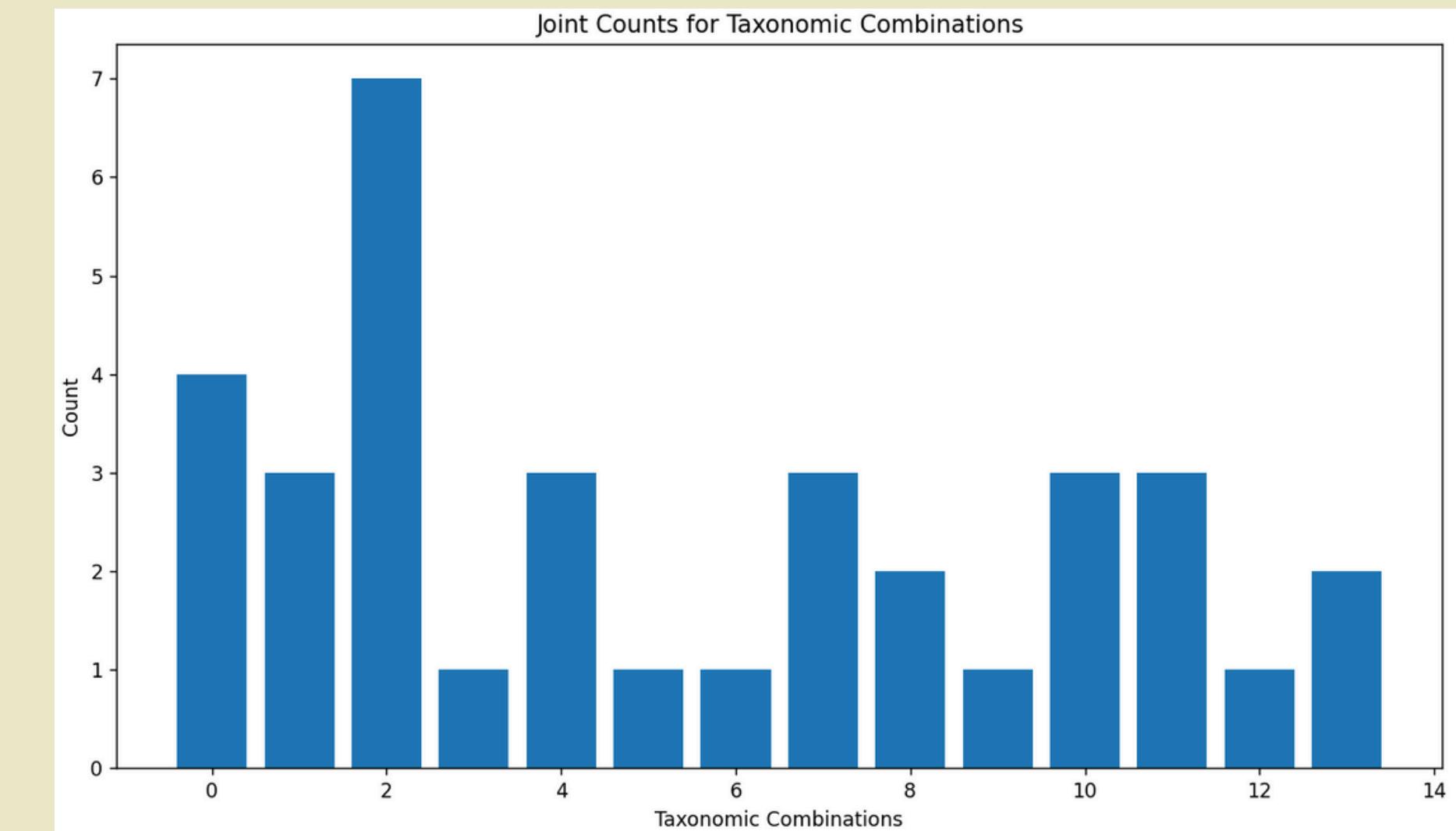
This can be found in the repo under root\input\data.csv

Output

Joint Probability

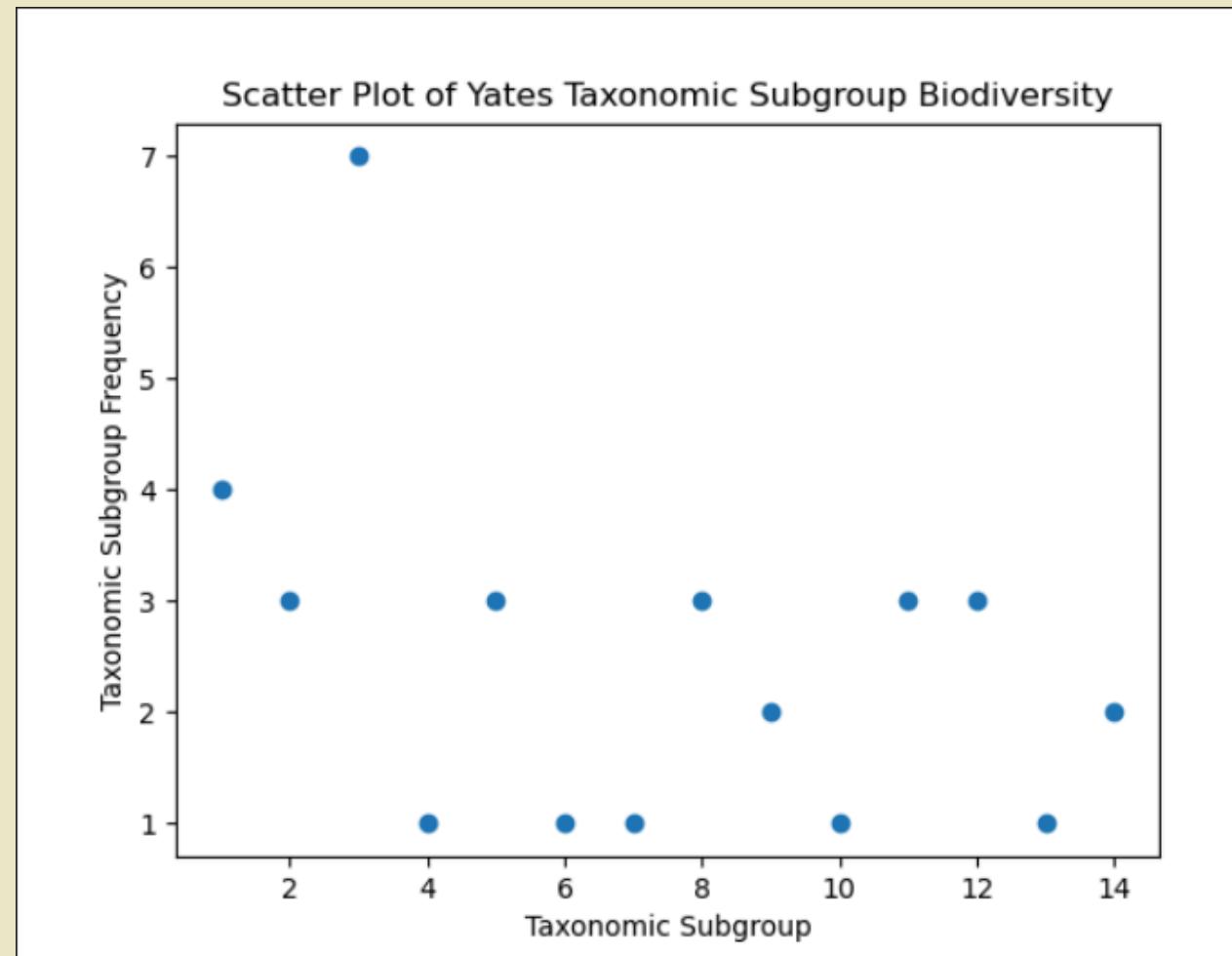


Joint Count

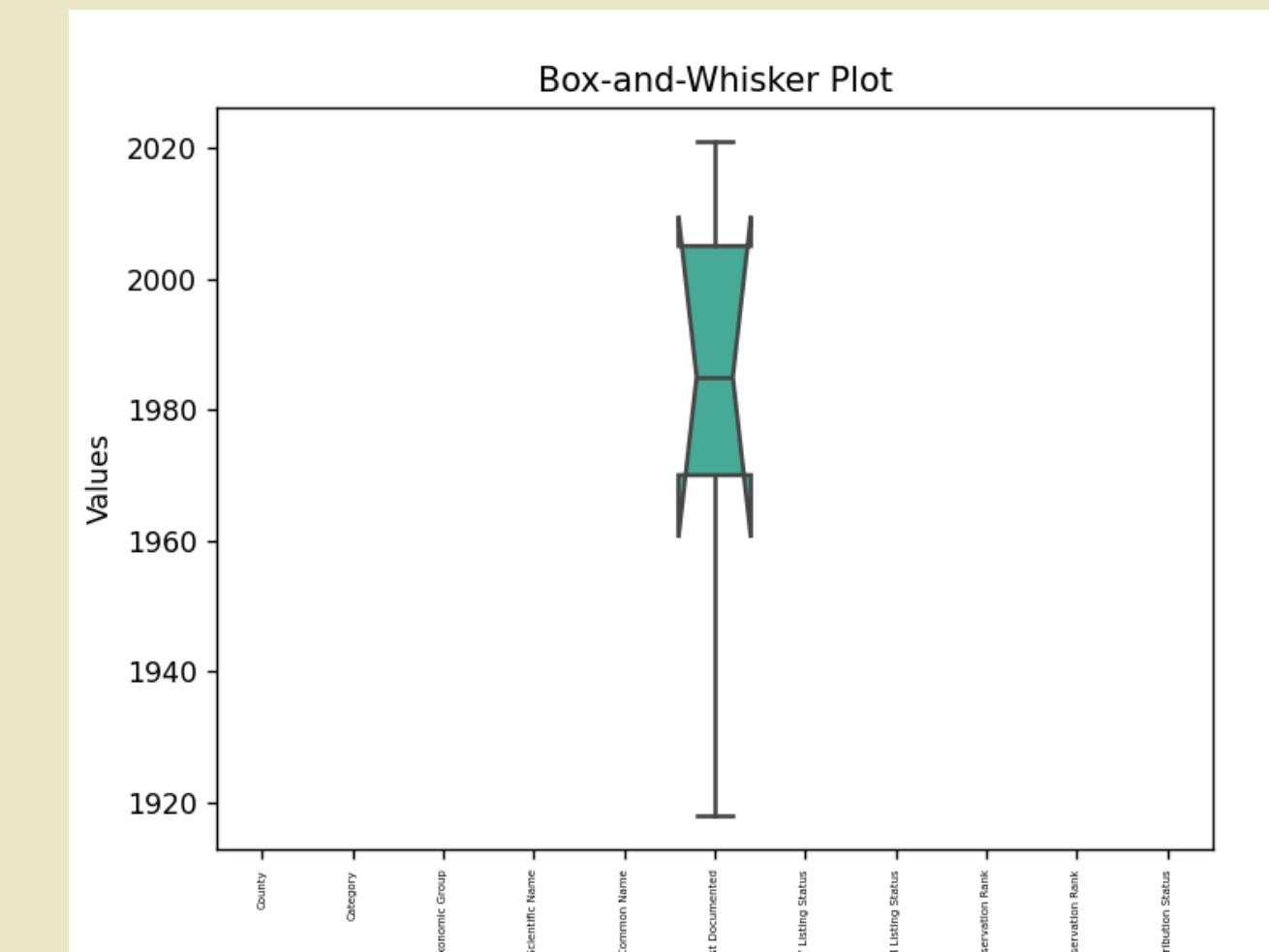


Output

Scatter Plot



Whisker Plot



Log File(s)

For ease of debugging and organization's sake, there are three log files:

- scientificCategory.log
- organism.log
- main.log

These files track the logging for the .py file with the same name

Task Progress Report

4/24/2024	Query data for searching within Child Class		In Progress	Carrington
4/24/2024	Child Class Violin plot		In Progress	Chloe
4/24/2024	Child Class Whisker-box plot		Done	Aubrey
4/24/2024	Child Class Scatter plot		Done	Julie
4/24/2024	Calculate and display joint counts		Done	Carrington
4/24/2024	Calculate and display joint probabilities		Done	Aubrey
4/24/2024	Calculate and display conditional probabilities		Done	Chloe
4/24/2024	Calculate and display mean, median, std		In Progress	Julie