

Lecture 18 Exercises

CS 51P – Fall 2023

1. Generate a line graph showing the powers of 2 from 1, 2, 4, 8, ... 1024
2. Generate a scatter plot showing the powers of 2 from 1, 2, 4, 8, ... 1024 that includes axis labels, a title, and a legend.
3. Generate a bar graph of the powers of 2 from 1, 2, 4, 8, ... 1024

4. Write a function `plot_ppm` that takes a filename as input and produces an image histogram (a plot of the number of pixels for each rgb value).
5. Write a function `plot_ppm_color(filename, color)` that takes the name of a ppm file and a color ("r", "g", or "b") and produces an color histogram for that color based on the given file.