Introduction to Python (Fall 2024)

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Class 3 (Oct 23, 2024)

**Class 3 in-class Exercises**

Exercise One

1. Make a scatter plot of years\_farm vs years\_liv and color the points by buildings\_in\_compound
2. Make a bar plot of the mean number of rooms per wall type, where each wall type is represented by a different color

Exercise Two

Using the dataset below, create a scatter plot to visualize the relationship between 'horsepower' and 'mpg' and save it to an image file. You should import all necessary libraries in the same cell, label the x-axis as 'Horsepower' and the y-axis as 'MPG', and title the plot as 'Horsepower vs MPG'. Change the default size and color of the dots to whatever you like.

data = { 'car': ['Toyota', 'Honda', 'Ford', 'Chevrolet', 'BMW', 'Tesla', 'Audi'], 'horsepower': [150, 120, 170, 200, 250, 300, 180], 'mpg': [30, 35, 25, 20, 18, 15, 22]

*Hint: You will have to convert the dictionary to a dataframe. See if you can find this command online!*