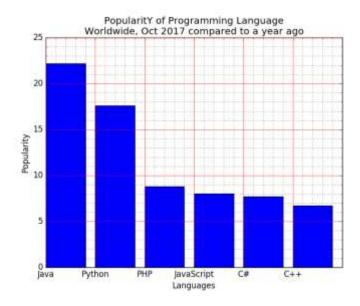
1. Write a Python programming to display a bar chart of the popularity of programming Languages.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

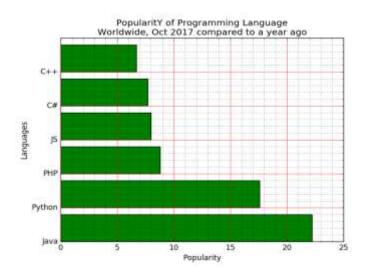
The code snippet gives the output shown in the following screenshot:



2. Write a Python programming to display a horizontal bar chart of the popularity of programming Languages.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7



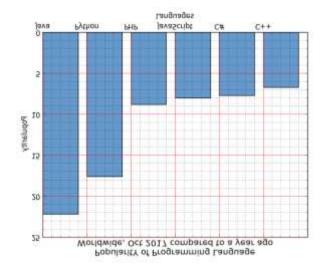
3. Write a Python programming to display a bar chart of the popularity of programming Languages. Use uniform color.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

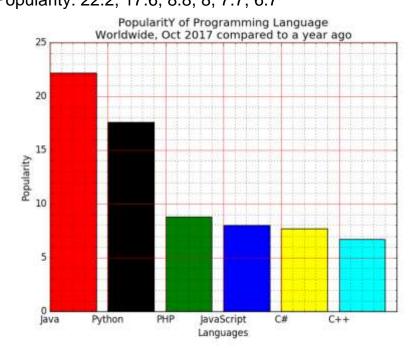
The seeds exist at airce the extent observation the following as

The code snippet gives the output shown in the following screenshot:



4. Write a Python programming to display a bar chart of the popularity of programming Languages. Use different color for each bar. Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7



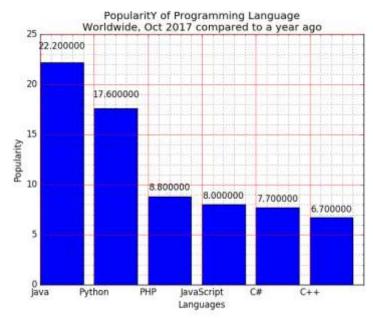
5. Write a Python programming to display a bar chart of the popularity of programming Languages. Attach a text label above each bar displaying its popularity (float value).

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

The code snippet gives the output shown in the following screenshot:

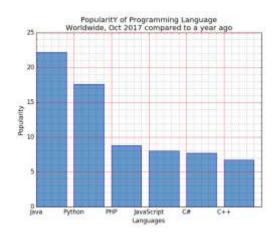


6. Write a Python programming to display a bar chart of the popularity of programming Languages. Make blue border to each bar.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++

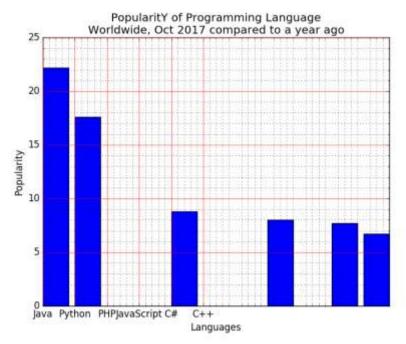
Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7



7. Write a Python programming to display a bar chart of the popularity of programming Languages. Specify the position of each bar plot. Sample data:

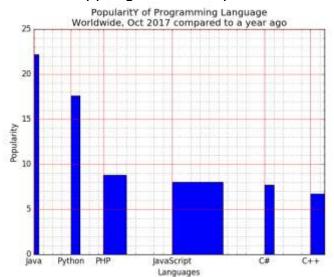
Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

The code snippet gives the output shown in the following screenshot:



8. Write a Python programming to display a bar chart of the popularity of programming Languages. Select the width of each bar and their positions. Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7



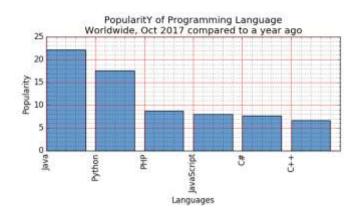
9. Write a Python programming to display a bar chart of the popularity of programming Languages. Increase bottom margin.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

The code snippet gives the output shown in the following screenshot:

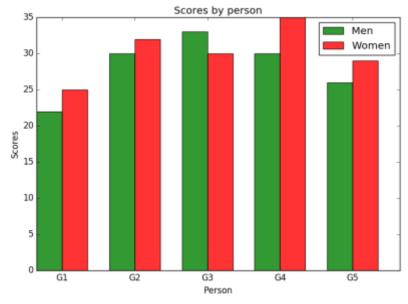


10. Write a Python program to create bar plot of scores by group and gender. Use multiple X values on the same chart for men and women.

Sample Data:

Means (men) = (22, 30, 35, 35, 26)

Means (women) = (25, 32, 30, 35, 29)



11. Write a Python program to create bar plot from a DataFrame.

Sample Data Frame:

abcde

2 4,8,5,7,6

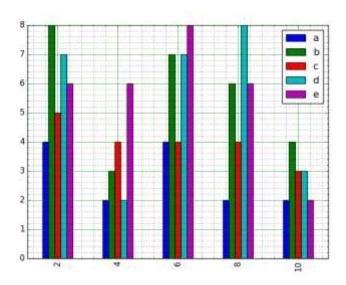
4 2,3,4,2,6

6 4,7,4,7,8

8 2,6,4,8,6

10 2,4,3,3,2

The code snippet gives the output shown in the following screenshot:

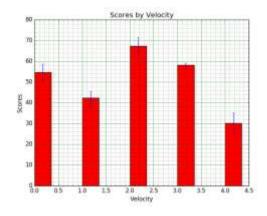


12. Write a Python program to create bar plots with error bars on the same figure.

Sample Date

Mean velocity: 0.2474, 0.1235, 0.1737, 0.1824

Standard deviation of velocity: 0.3314, 0.2278, 0.2836, 0.2645



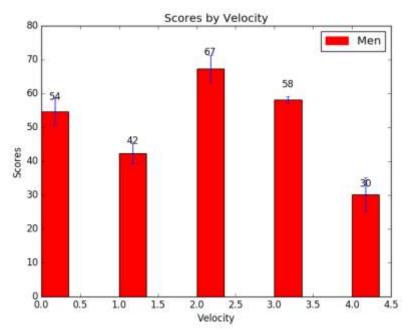
13. Write a Python program to create bar plots with errorbars on the same figure. Attach a text label above each bar displaying men means (integer value).

Sample Data

Mean velocity: 0.2474, 0.1235, 0.1737, 0.1824

Standard deviation of velocity: 0.3314, 0.2278, 0.2836, 0.2645

The code snippet gives the output shown in the following screenshot:



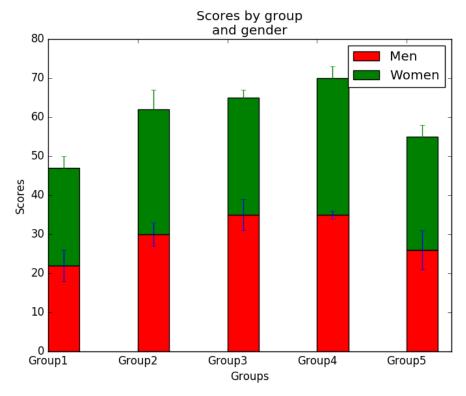
14. Write a Python program to create a stacked bar plot with error bars. Note: Use bottom to stack the women?s bars on top of the men?s bars. Sample Data:

Means (men) = (22, 30, 35, 35, 26)

Means (women) = (25, 32, 30, 35, 29)

Men Standard deviation = (4, 3, 4, 1, 5)

Women Standard deviation = (3, 5, 2, 3, 3)



15. Write a Python program to create a horizontal bar chart with differently ordered colors.

Note: Use bottom to stack the women?s bars on top of the men?s bars. Sample Data Set:

languages = [['Language', 'Science', 'Math'],

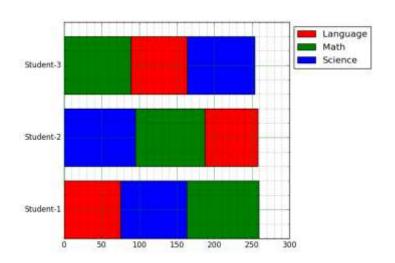
['Science','Math','Language'],

['Math','Language','Science']]

numbers = [{'Language':75, 'Science':88, 'Math':96},

{'Language':71, 'Science':95, 'Math':92},

{'Language':75, 'Science':90, 'Math':89}]



16. Write a Python program to create stack bar plot and add label to each section.

Sample data:

people = ('G1','G2','G3','G4','G5','G6','G7','G8')

segments = 4

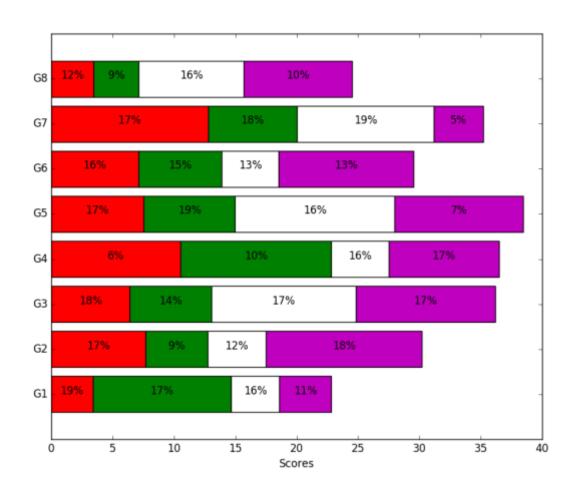
multi-dimensional data

data = [[3.40022085, 7.70632498, 6.4097905, 10.51648577, 7.5330039, 7.1123587, 12.77792868, 3.44773477],

[11.24811149, 5.03778215, 6.65808464, 12.32220677, 7.45964195, 6.79685302, 7.24578743, 3.69371847],

[3.94253354, 4.74763549, 11.73529246, 4.6465543, 12.9952182, 4.63832778, 11.16849999, 8.56883433],

[4.24409799, 12.71746612, 11.3772169, 9.00514257, 10.47084185, 10.97567589, 3.98287652, 8.80552122]]



17. Write a Python program to add textures (black and white) to bars and wedges.

Note: Use bottom to stack the womens bars on top of the mens bars. The code snippet gives the output shown in the following screenshot:

