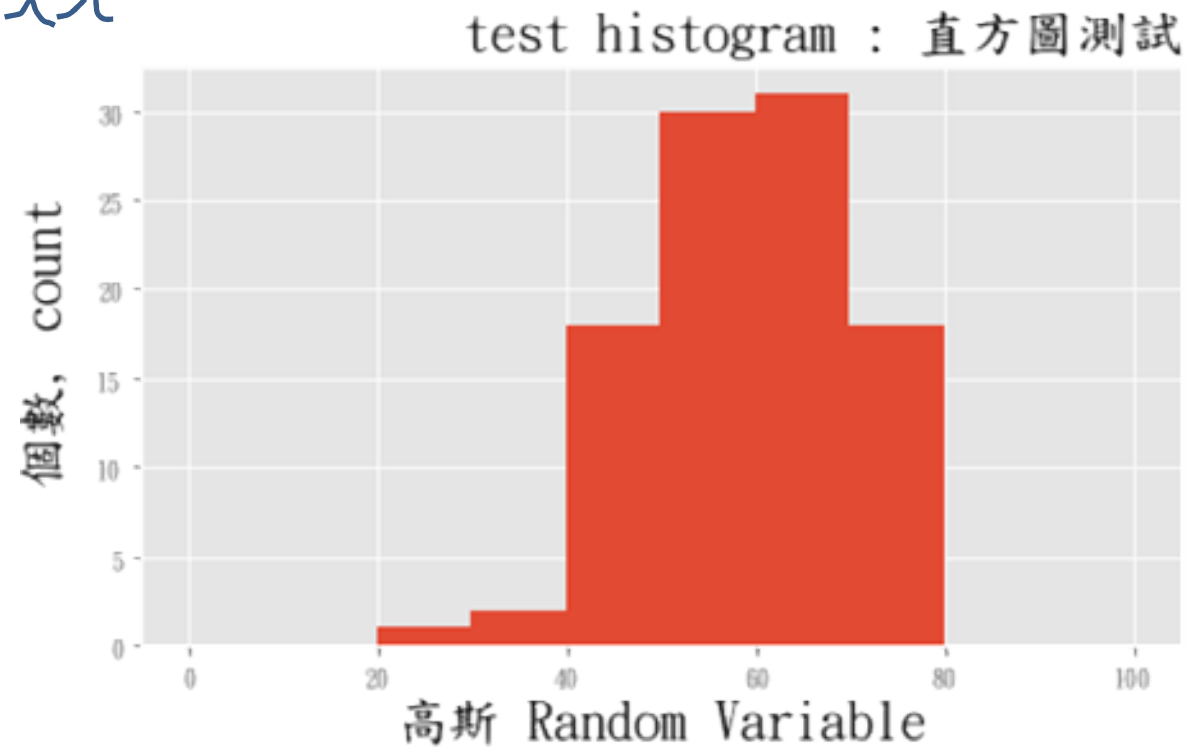
直方圖(histogram)

- matplotlib.pyplot.hist(x , bins)

plt



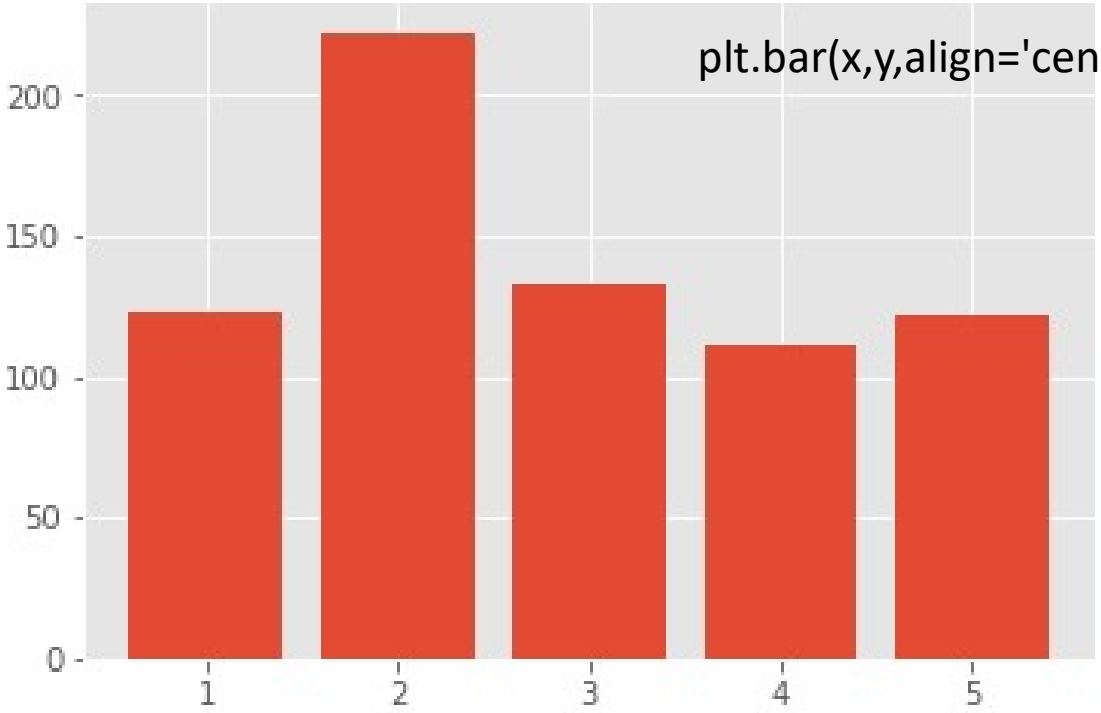

```
plt.title("test histogram : 直方圖測試",color='black',loc='right',size=20)
plt.xlabel('高斯 Random Variable',size=20,color='black')
plt.ylabel('個數, count',color='black',size=20)
```

plt 長條圖(bar chart)

- Matplotlib.pyplot.bar(x,y)
- 適用於呈現數據大小的比較

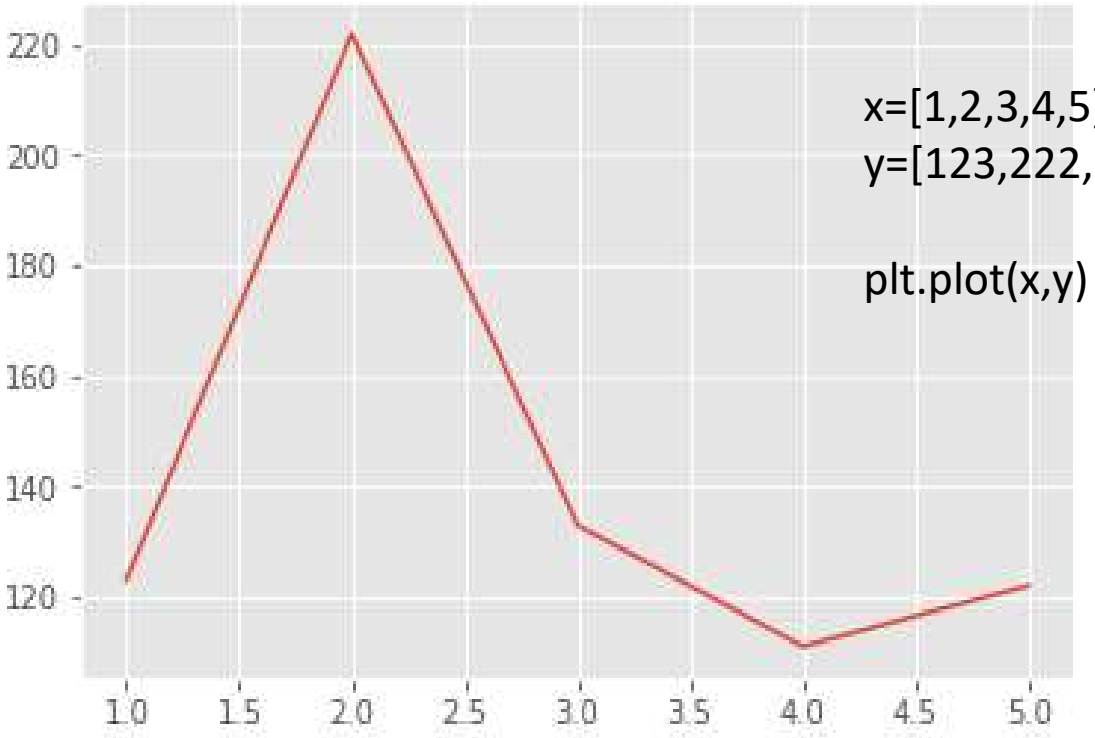
x=[1,2,3,4,5]
y=[123,222,133,111,122]

plt.bar(x,y,align='center')



折線圖 (line chart)

- matplotlib.pyplot.plot(x,y)
- 適用於呈現數據變化的趨勢



x=[1,2,3,4,5]
y=[123,222,133,111,122]

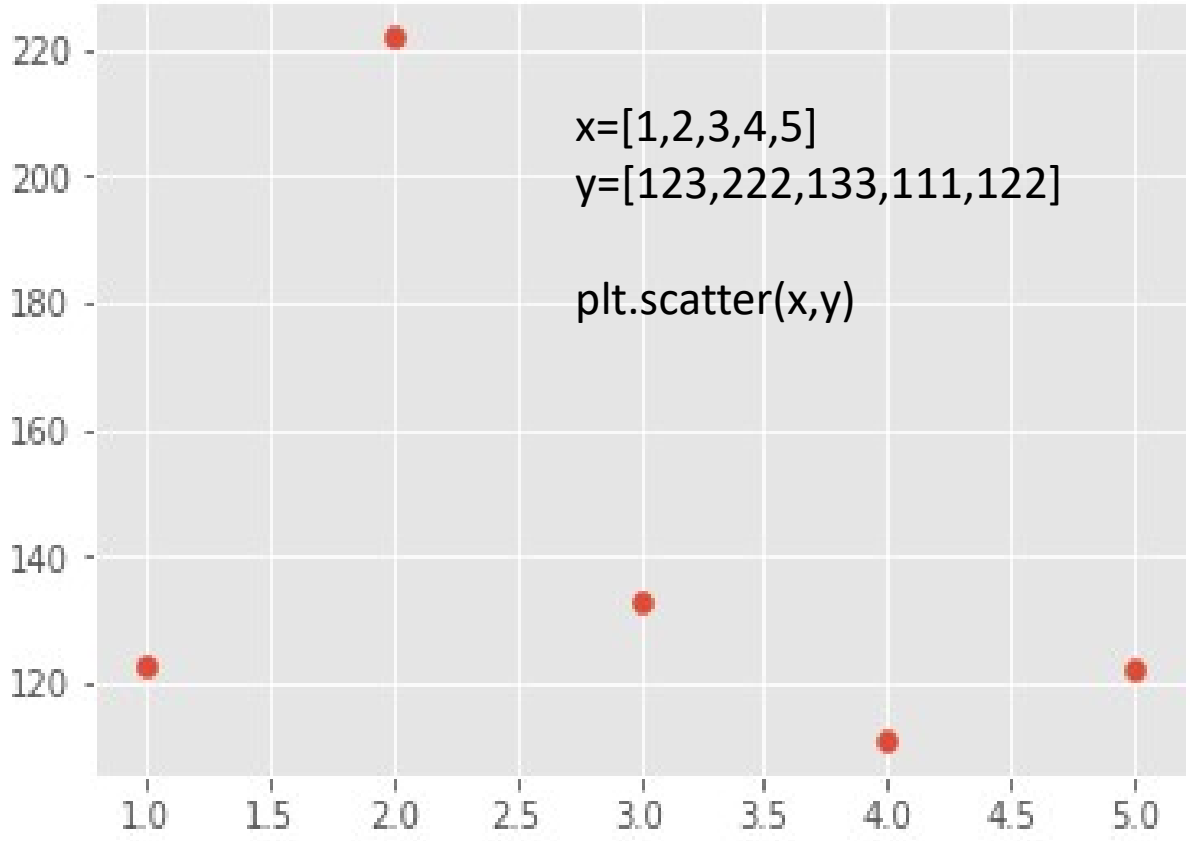
plt.plot(x,y)

折線圖 (line chart)

linestyle	description
‘-’ or ‘solid’	solid line
‘--’ or ‘dashed’	dashed line
‘-.’ or ‘dashdot’	dash-dotted line
‘:’ or ‘dotted’	dotted line

散佈圖 (scatter)

- matplotlib.pyplot.scatter(x,y)



Pandas DataFrame 作圖

- Dataframe.plot(kind , figsize, ,,,)
- Kind(作圖種類)
  - 折線圖 (kind='line')
  - 長條圖 (kind='bar')
  - 直方圖 (kind='hist')
  - 散佈圖 (kind='scatter')
  - 圓餅圖(kind='pie')
  - 機率密度圖(kind='kde')

```
dfm2=dfm[  ['宜蘭縣','台北市']  ]
dfm2.plot(  kind='bar',   figsize=(8,4)    )

plt.title('用dataframe.plot 比較宜蘭縣,台北市',color='black',size=20)
plt.xlabel('年',size=20,color='black')
plt.ylabel('腸病毒健保就診人次',color='black',size=20)
```