矩陣

import numpy as np

A = np.matrix( [[6,5],[10,20]] )

* A =matrix([[ 6, 5],

[10, 20]])

x1 = np.linalg.solve(A,b)

or

x1 = np.linalg.inv(A)\*b

A\*x1=b

作圖

import matplotlib.pyplot as plt

plt.plot([1,2], [3,4], 'r--')

plt.axis([0, 6, 0, 5])

plt.plot([4],[1],'b\*')

plt.show()

“用紅色(r)虛線(--)連接(1,3)及(2,4)”

“x軸0~6,y軸0~5”

“在(4,1)點一個藍色(b)的星星(\*)”

“作圖”

b: blue

g: green

r: red

c: cyan

m: magenta

y: yellow

k: black

w: white

import matplotlib.pyplot as plt

plt.xlabel('Smartness',fontsize=10, color='red') X軸標題,字體大小,顏色

plt.ylabel('Intelligence') Y軸標題

plt.title('Operations Research is Fun') 圖標

plt.plot([1,2,3,4], [1,4,9,16], 'r-.', label='first') label是線段名稱

plt.axis([0, 6, 0, 20]) XY軸尺度

plt.plot([4,3,2,1],[1,4,9,16],'b--',label='second')

plt.plot([1,4], [5,8], 'm-', label='third')

plt.legend() 把label秀出來(右上角那個

plt.text(3.5, 15, 'one')

plt.text(3.5, 3, 'two')

plt.text(4, 9, 'three')

plt.show()

quotient (商數) 用/

remainder (餘數) 用%

x!=y x is not equal to y

x>y x is greater than y

x=y x is greater than or equal to y

x<=y x is less than or equal to y

var = input('Please input an integer: ')

if var > 0 and var <= 10:

print 'var is greater than 0 and no greater than 10'

else:

print 'var is either less than 1, or greater than 10'

挪抬很重要 沒tab 就不算if else的一部份

while True: 單純設迴圈的開頭

n = raw\_input("Please enter 'hello':")

if n == 'hello':

print 'Happy!'

break

u = input('Please enter upper bound for loop:')

n = 1

while True:

print n,

n = n + 1

if n > u:

break