

NumPy Cheat Sheet Cheat Sheet by mdesai96 via cheatography.com/95163/cs/20869/

NumPy array basics	
np.arr ay([1, 2,3])	Creates a 1D array with values 1, 2, 3. (shape 1x3)
np.arr ay([(1 ,2,3), (4,5,6)])	Creates 2D array of shape 2x3 with values 1,2,3,4,5,6
np.arr ay([[(1,2,3), (4,5,6)], [(7,8,9), (10,11 ,12)]])	Creates a 3D array with shape 2x2x3
np.zer os(3,4)	Creates a 3x4 array of zeros
np.arr ang e(1 ,60,5)	Creates a 1D array of values 1 through 60 at steps of 5
a.resh ape (2,3,4)	Reshapes array a into an array of shape 2x3x4
a.shape	To get the shape of the array a

Subsetting	
a[0]	Gets the 0th element in 1D array a
b[0,0]	Gets the 0th element in 2D array b
c[0,0,0]	Gets the 0th element in 3D array c
c[9,0,0]	Gets the element which is the 0th element in the 0th row in the 9th depth

Slicing arrays	
1D arrays	
a[:]	Selects everything
a[2:5]	Selects the 2nd through the 4th rows (does not include the 5th row)
2D arrays	
b[:,:]	Selects all rows and all columns
b[:,0]	Selects all rows, and the zeroth column
b[0,:]	Selects the zeroth row, and all columns in that row
b[0:2,:]	Selects the zeroth and first row, but NOT the second. It includes all the columns in that row
b[0:2,0:2]	Selects the zeroth and first row, and the zeroth and first column
3D arrays	
c[:,:,:]	Selects all rows and columns on all depths
c[0,:,:]	Selects the everything in the first depth
c[:,0,:]	Selects the first row of each depth
c[:,:,0]	Selects the first column of each depth



By mdesai96

cheatography.com/mdesai96/

Published 23rd October, 2019. Last updated 23rd October, 2019. Page 1 of 1. Sponsored by Readable.com

Measure your website readability!

https://readable.com