1 Python Quiz

random Random integer between 2 and 20

numpy array of 30 points from 0 to 10

numpy: distribution 30 points sampled from a gaussian dist with mean 0

30 points sampled from uniform dist between [0,1)

get max of numpy array x

get max of each row of numpy array x

Simulate 500 coin "fair" coin tosses (where the probabily of getting Heads is 50%, or 0.5)

Repeat the previous simulation 500 times

Generate a random integer between [0,3], n times

pandas: dataframes Remove rows from df where certain column has missing

Convert df column to type int

Create a histogram from a dataframe column without matplotlib

rescale the x-axis of plot to be logarithmic

Create scatter plot of 2 df columns and set transparency to check density

Set x axis limits

Square the elements in a list via a list comprehension

Add 2 numpy arrays together (they're vectorized)

How find index of a certain element of a list? e.g. a list called planets, which have string elements corresponding to planets

Check if variable is of int type

Combine corresponding elements of 2 lists (of equal length) into new list which is a list of tuples

What does enumerate do?

How would you iterate over a list of integers upto N

example of above

give an example dictionary definition Dictionaries

get items of dictionary as a list

get values of dictionary as a list

given two lists, say keys, and values create a dictionary,

where each (key,value) is now an item pair

Strings join list of words with ','

Error How to catch errors

handing

difference iterators what's the between dict.itemsand

dict.iteritems if you use either in a loop

Lambda Write a lambda function that takes 2 numbers and refns

turns the sum

Suppose you had a list of tuples, called topfreq, where every item was a (word, freq) pair how would you plot a bar chart using matplotlib of the words and the frequency?

Loops Give an example of iterating over elements of a list

Give an example of iterating over the indices of a list

Give an example of iterating over both elements and in-

dices of list