DS2000 10/10-Fn !! Admin - Hu

- Huy due 10/19 apm

- Hw5 at, are 10/25 apm

- mini exam #2 10/29

Agenda

1. Fixing tres code

2. 20 lists

3. Python

(1. Perkeet Tres. Code)

fores data file: books in US
goods: plot locations
cant # in given city

(split() is messy)

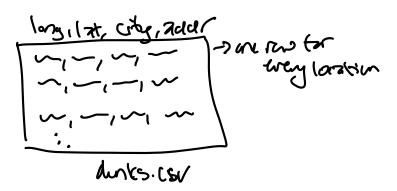
impovements:

> plot erenthing at once > organize code better?

Is read in file better (Evilibery)

What do we need to plot everything zu zt onu?

Where should we have functions?



def main():
 # prompt the user for a city
 city = input("What city to look for Dunks in?\n")

start a counter variable at 0
count = 0

step one - gather data by reading from the file
with open(FILENAME, "r") as infile:
 infile.readline()

for line in infile:
 # turn line into a list, because line is a string right now
 lst = process_str(line, LONG_POS, LAT_POS)

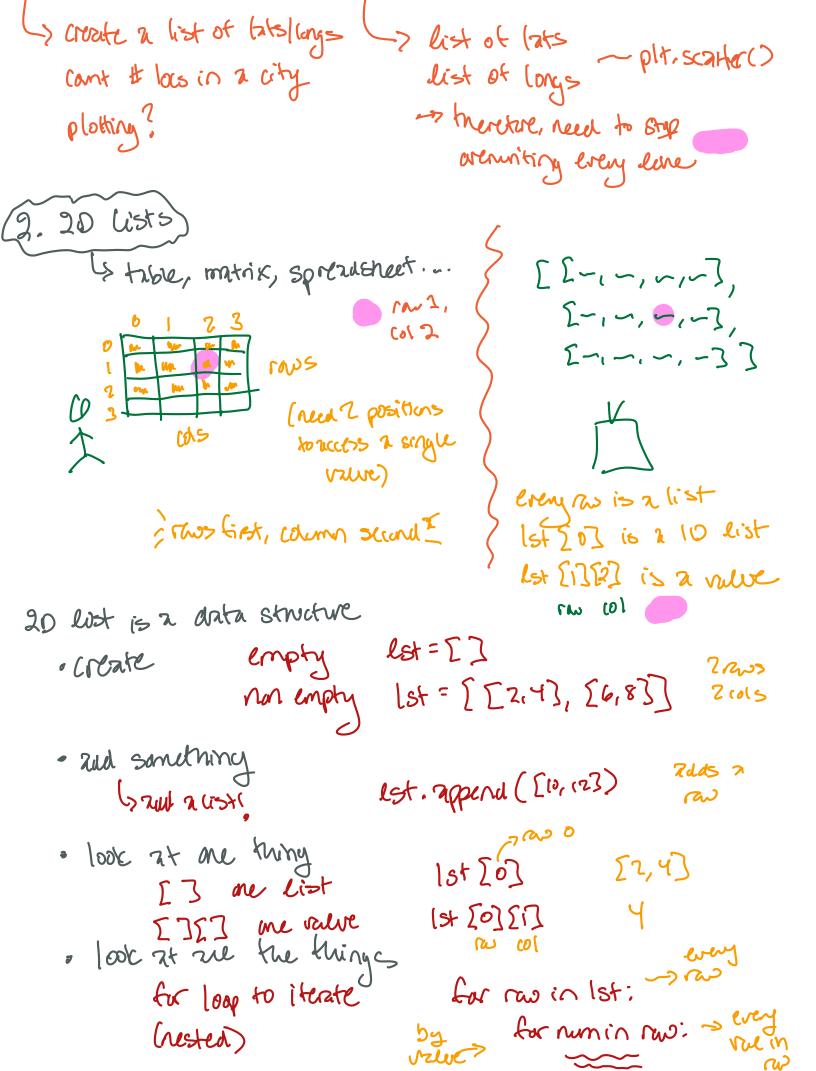
Is this dunks in the city the user gave us?
 if find_city(lst, city, CITY_POS):
 print(lst)
 count += 1

communication - plot the lat/long
plt.plot(lst[LONG_POS], lst[LAT_POS], "x", color = "orange")

How many did I find in a given city?
print(count, "Dunks in", city)

more communication, final touches and show the plot
plt.title("Dunkin Donuts Locations in the US")
plt.xlabel("Longitude")
plt.ylabel("Latitude")
plt.show()

main()



Qg an 20 Wots. - to append a raw lst = [[[1,3]], 1st. append ((-1, -3]) [2,4]] [[13], [7,4], [-1,-3] - rows dun't need to be - to append a verience to a new Some lingth - but proceed cartinsly! 1st [0]. append (5) lest!

today's code improvements

[[-, ~, -, -] [-, ~, -, -] dunks, csv