

Lecture 11

Joins and Maps

Announcements

- Project 1 out today, part 1 due 3/19, part 2 due 3/26.
 - Get started early! Don't put it off!
 - You can work in pairs.
 - Vocareum is not Google Docs. You cannot both work on the assignment at the same time and have both people's work be saved.
- Next week:
 - No class Wednesday (Wellness day)
 - No labs Wednesday or Thursday
 - No office hours Tuesday or Wednesday

Joins

Joining Two Tables

Keep all rows in the table that have a match ... drinks.join('Cafe', discounts, 'Location')

... for the value in this column ...

... somewhere in this other table's ...

... column that contains matching values.

drinks

discounts

Drink	Cafe	Price
Milk tea	Panda Tea	4
Espresso	Gimme	2
Latte	Gimme	3
Espresso	Cafe Gola	2

Coupon		Location	
25%		Panda Tea	
50%		Gimme	
5%		Gimme	
The joined column is			

sorted automatically

Cafe	Drink	Price	Coupon
Gimme	Espresso	2	50%
Gimme	Espresso	2	5%
Gimme	Latte	3	50%
Gimme	Latte	3	5%
Panda Tea	Milk Tea	4	25%

Bikes

Citibike

A bikesharing program in New York City. Bikes taken/returned to docks around the city.

All kinds of data available at https://www.citibikenyc.com/system-data.



Maps

Maps

A table containing columns of latitude and longitude values can be used to generate a map of markers

.map_table(table, ...)

Either Marker or Circle

Column 0: latitudes

Column 1: longitudes

Column 2: labels

Column 3: colors

Column 4: sizes

Applies to all features: color='blue'

size=200