



**DSFA**

Spring 2018

# Lecture 11

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Joins

# **Announcements**

# Joins

# Joining Two Tables

```
drinks.join('Cafe', discounts, 'Location')
```

Keep all rows in the table that have a match ...

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

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

... column that contains matching values.

**drinks**

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

**discounts**

Coupon	Location
25%	Panda Tea
50%	Gimme
5%	Gimme

The joined column is sorted automatically

(Demo)

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**

# Maps

# Maps

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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