Lecture 11

Joins
Joins
# Joining Two Tables

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

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

... for the value in this column ... ... somewhere in this other table's ... ... column that contains matching values.

<table>
<thead>
<tr>
<th>drinks</th>
<th>discounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drink</td>
<td>Cafe</td>
</tr>
<tr>
<td>Milk tea</td>
<td>Panda Tea</td>
</tr>
<tr>
<td>Espresso</td>
<td>Gimme</td>
</tr>
<tr>
<td>Latte</td>
<td>Gimme</td>
</tr>
<tr>
<td>Espresso</td>
<td>Cafe Gola</td>
</tr>
</tbody>
</table>

The joined column is sorted automatically

(Demo)
Bikes
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