CompSci 190:
Lab 4: Functions

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The **apply** method creates an array by calling a function on every element in one or more input columns

- First argument: Function to apply
- Other arguments: The input column(s)

```
table_name.apply(one_arg_function, 'column_label')
```

```
table_name.apply(two_arg_function, 'column_label_for_first_arg', 'column_label_for_second_arg')
```

**apply** called with only a function applies it to each row
Group

The `group` method aggregates all rows with the same value for a column into a single row in the result

- First argument: Which column to group by
- Second argument: (Optional) How to combine values
  - `len` — number of grouped values (default)
  - `sum` — total of all grouped values
  - `list` — list of all grouped values

The `group` method can also aggregate all rows that share the combination of values in multiple columns

- First argument: A list of which columns to group by
- Second argument: (Optional) How to combine values
Ready for Lab

• Based on your reading and work so far, answer the following questions for your individual readiness assessment:

  http://bit.ly/FoDS-f18-lab04-iRA

• Now talk to your teammates and come to a consensus.
  • Submit only one per team

  http://bit.ly/FoDS-f18-lab04-tRA
What’s next?

• Read Chapter 8-9 of *Computational and Inferential Thinking*

• Complete Homework 3

• Midterm Review in class on Monday