Lecture 10, September 16

Classifying Categorical Data

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Announcements

● **Project 1** will be released next week. We’re working to take care of those annoying server problems.

● **John DeNero** will give the lecture on Monday 9/19. Show up!

● 469 students filled out the survey. **Thank you!**

● According to the survey, today is the birthday of two students. Happy birthday!
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
  - `np.mean` — mean of all grouped values

```
table_name.group('column_label', function)
```

(Demo)
The `groups` method aggregates all rows that share the combination of values in multiple columns

- First argument: Which columns to group by
- Second argument: (Optional) How to combine values

`table_name.groups(column_labels_array, function)`
Pivot

- Cross-classifies according to two categorical variables
- Produces a grid of counts or aggregated values
- Two required arguments:
  - First: variable that forms column labels of grid
  - Second: variable that forms row labels of grid
- Two optional arguments (both must be specified, or neither)
  - `values='column_label_to_aggregate'`
  - `collect=function_with_which_to_aggregate`