

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!

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
 - **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)

(Demo)

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)
 - o values='column_label_to_aggregate'
 - o collect=function_with_which_to_aggregate