Lecture 6: Examining Categorical Data

Contingency Tables

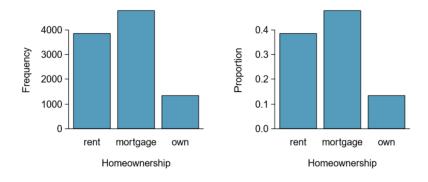
We can use a **contingency table** to break down data with respect to two categorical variables.

		homeownership			
		rent	mortgage	own	Total
app_type	individual	3496	3839	1170	8505
	joint	362	950	183	1495
	Total	3858	4789	1353	10000

Question of interest: Does there appear to be a relationship between loan application type and homeownership status? We can start to answer this question by examining row proportions:

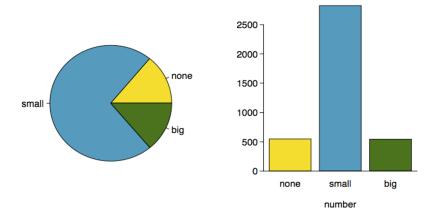
- % of all applicants who rent:
- % of individual applicants who rent:
- % of joint applicants who rent:

Bar Plots



Differences between bar plots and histograms?

Pie Charts



Side-by-Side Plots

