CU Jail Data

This data set is a subset of the Champaign County Sheriff Office data on bookings throughout the county for the year 2012. It contains no personal identifying information for people who were booked, but does include demographic variables and details about the crime and category of crime. The data set is a comma separated values (.csv) file called ccso subset 2 and contains 2078 rows and 11 columns

CU Jail Data

Description
category of employment
ID number
person's racial identity
male or female
person's country
person's age
whole number greater than 0
category of offense
category of crime
of person's residence
of person's residence

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What questions might a data analyst have about this dataset?

What might be their goals for analysis?

Example: CU Jail Data

Goal: We are interested in the proportion of the races of folks in the Champaign or Urbana.

We could use a bar plot to visualize that.

```
data cujail;
 length employment_status $25. race $12. sex $6.
   citizenship $8. offense_level $24. high_level_crime $12.
   city $24. state $8.;
 infile 'location/ccso_subset_2.csv' dlm=',' dsd missover
   firstobs=2;
 input employment_status $ jacket_number race $ sex $
   citizenship $ age_at_arrest days_in_jail offense_level $
   high_level_crime $ city $ state $;
run;
proc sgplot data=cujail pctlevel=graph;
 vbar city /group=race groupdisplay=cluster ;
 where city in ('CHAMPAIGN', 'URBANA');
run;
```

Example: CU Jail Data

How might we tweak or enhance this plot?

What alternative plots might accomplish the goal?

Exercise: CU Jail Data

- 1. How many people who were arrested lived outside of Champaign-Urbana?
- 2. When focusing on age at arrest, how many observations are missing?
- 3. Has anyone over the age of 70 and in Urbana been arrested?
- 4. Create a scatter plot of days in jail vs age at arrest for nonmissing ages only. What do you see?
- Now create a scatter plot of days in jail vs age at arrest for black and white people arrested ages 35 and older. Describe the plot.