

# R and RStudio Cheatsheet

## Preliminaries

### Load package

```
library(hanoverbase)
```

## Load Data

### Data from package

```
data(counties)
View(counties)    # Only in console
help(counties)    # Only in console
```

## Data Import TODO

## Data Viewer

## Order rows TODO

## Filter TODO

## Search TODO

## Summaries

### Numerical Variable

```
favstats(~pop2010, data=counties)
favstats(miles~direction, data=driving) # miles by direction
favstats(~miles|direction, data=driving) # same thing
median(~female|state, data=counties) %>% sort()
iqr(~poverty|state, data=counties)
```

```
tally(~state, data=counties)
tally(~state, data=counties) %>% sort()
# Column-wise percents
tally(~genhealth|sex, data=brfss, format="percent", useNA="no")
# Total percents
tally(~genhealth+sex, data=brfss, format="percent", useNA="no")
```

## Graphs

## One Variable

### Categorical Variable Histogram

```
histogram(~pop2010, data=counties, breaks=20)
histogram(~pop2010, data=counties %>% filter(pop2010 <= 2e6))
```

**Barchart** TODO

**Boxplot** TODO

**Labeled Dotplot**

```
sum(~own_rate | country, data=guns) %>% sort() %>% dotplot()
```

**Two Variables**

**100% Stacked Barchart** TODO

**Scatterplot** TODO

**Three Variables**

**TODO** TODO

**Graph Additions**

**TODO** TODO

**Colors**

**TODO** TODO

**Panels**

**TODO** TODO

**Misc**

**TODO** TODO

**Head/Tail**

**TODO** TODO

**Value Labels**

**TODO** TODO

**Item Lists**

**TODO** TODO