# Commands

| Command | Explanation | Abbreviation |
|---------|-------------|--------------|
| set obs | sets number of observations | |
| set scheme s1mono | sets greyscale printer-friendly color scheme | |
| sort x | sorts variable $x$ in ascending order | |
| line x y | graphs a line plot of $x$ on $y$ | |
| tsset y | sets $y$ as the time variable in a time series | |
| graph bar, over(x) | creates a bar graph for $x$ | |
| graph box x | creates box plot for $x$ | |

# Examples

## Skew

```
set obs 1000                                    sets observations to 1000
generate sdnorm = rnormal(0,1)              generates 100 $\mathcal{N}(0,1)$ observations
generate rskew = rbeta(1,6)                 generates a right skewed distribution
generate lskew = rbeta(6,1)                  generates a left skewed distribution
```

## Kurtosis

```
generate cauchy = rt(1)                         generates 100 Cauchy observations
tw kdensity cauchy, range(-5 5) || kdensity sdnorm, range(-5 5)
                                    plots cauchy on top of standard normal from $-5$ to 5.
```

## Time Series

Open *bees.dta* from my website.

```
line cols year                         plots time series of bee colonies over years
tsset year                                       sets year as the time variable
graph twoway tsline cols                           plots the time series again
generate beechange = d.cols                 generates yearly change in bee cols
generate beegrowth = 100 * d.cols / l.cols     generates growth rate of bee cols
```

## Graphs

Set 15 observations and input some random data called *var*.

```
graph bar, over(var, sort(1) descending)        sorts bars in descending height
```