

# Tables from Data

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By now, you should have:

- Downloaded R or Stata
- Understood what's what in a GUI
- Read in the August 2018 Poll

## READING IN

As we saw in the previous note, in R:

```
library(tidyverse)

hh <- readRDS("data/input/2018-08/HHP_August2018_data.Rds")
```

And in Stata reading in a Stata dataset is through the use command

```
cd "data/input/2018-08"
use HHP_August2018_data, clear
```

## SIMPLE TABLES IN R

```
xtabs(formula = ~ QH01, data = hh)
```

```
## QH01
## Yes  No
## 1297 130
```

And in R, you can abbreviate the argument names if you give them in the order provided:

```
xtabs(~ QM3AR1 + QH01, hh)
```

```
##
##           QH01
## QM3AR1      Yes  No
##   Strongly approve   375  39
##   Somewhat approve   352  29
##   Somewhat disapprove 220  24
##   Strongly disapprove 350  38
```

### SIMPLE TABLES IN STATA

The tab (or tabulate) command

```
tab QM3AR1
```

```

M3AR1 1. The |
economy: M3 Do you |
approve or |
disapprove of the |
job President Trump |      Freq.      Percent      Cum.
-----+-----
    Strongly approve |          414          29.01          29.01
    Somewhat approve |          381          26.70          55.71
Somewhat disapprove |          244          17.10          72.81
Strongly disapprove |          388          27.19         100.00
-----+-----
                Total |         1,427         100.00

```

Options come after the comma (look at help page for what options are available)

```
tab QM3AR1, sort
```

```

M3AR1 1. The |
economy: M3 Do you |
approve or |
disapprove of the |
job President Trump |      Freq.      Percent      Cum.
-----+-----
    Strongly approve |          414          29.01          29.01
Strongly disapprove |          388          27.19          56.20
    Somewhat approve |          381          26.70          82.90

```

Somewhat disapprove	244	17.10	100.00
-----+-----			
Total	1,427	100.00	

Cross-tabs

```
tab QM3AR1 QH01
```

M3AR1 1. The			
economy: M3 Do you			
approve or	H01 Do you have		
disapprove of the	health insurance?		
job President Trump	Yes	No	Total
-----+-----+-----			
Strongly approve	375	39	414
Somewhat approve	352	29	381
Somewhat disapprove	220	24	244
Strongly disapprove	350	38	388
-----+-----+-----			
Total	1,297	130	1,427

## DEFINING THE SURVEY IN R

To do more complex operations like using weights, use the survey package to define the properties of the dataset.

```
library(survey)
library(srvyr)
```

To set weights,

```
hh_svy <- svydesign(data = hh, ids = ~0, weights = ~Propwts)
```

To do cross-tabs (now with weights)

```
svytable(~ QM3AR1 + QH01, hh_svy)
```

```
##
##           QH01
## QM3AR1      Yes      No
## Strongly approve 365.89978 40.35705
## Somewhat approve 339.31558 28.33873
## Somewhat disapprove 224.37649 28.15894
## Strongly disapprove 360.98314 39.57034
```