### Data Analysis

**with Stata 15 Cheat Sheet**

For more info see Stata's reference manual (stata.com) Results are stored as either \( _\text{class} \) or \( _\text{rclass} \). See Programming Cheat Sheet

#### Summarize Data

- \texttt{tabulate} price mpg, boxplot
- \texttt{svc install univar}
- \texttt{tsset} time, yearly
- \texttt{generate} lag \textit{var} = \textit{var} \(-\) 1
- \texttt{tsline} plot time series of \textit{var}
- \texttt{arima} \textit{var}, art\(\text{()}/2\)
- \texttt{estimates} of \textit{var} with \textit{model}
- \texttt{Survival Analysis}

#### Statistical Tests

- \texttt{tsset} time, yearly
- \texttt{time schedule} to be \text{month}
- \texttt{generate} \textit{lag} \textit{var} = \textit{var} \(-\) 1
- \texttt{tsline} plot time series of \textit{var}
- \texttt{arima} \textit{var}, art\(\text{()}/2\)
- \texttt{estimates} of \textit{var} with \textit{model}
- \texttt{Survival Analysis}

#### Estimation with Categorical & Factor Variables

- \texttt{regress} price mpg weight, vce\texttt{(robust)}
- \texttt{logit} foreign headroom mpg
- \texttt{use} webuse Prices.dta, clear

#### Diagnostics

- \texttt{regress} price mpg weight, vce\texttt{(robust)}
- \texttt{logit} foreign headroom mpg
- \texttt{use} webuse Prices.dta, clear

#### Postestimation

- \texttt{regress} price mpg weight, vce\texttt{(robust)}
- \texttt{logit} foreign headroom mpg
- \texttt{use} webuse Prices.dta, clear

### Declare Data

By declaring data type, you enable Stata to apply data munging and analysis functions specific to certain data types

#### Time Series

- \texttt{tsset} time, yearly
- \texttt{tsline} plot time series of \textit{var}
- \texttt{arima} \textit{var}, art\(\text{()}/2\)
- \texttt{estimates} of \textit{var} with \textit{model}

#### Panel / Longitudinal

- \texttt{xtdescribe} report panel aspects of a dataset
- \texttt{xsum} hours, summarize hours worked, decomposing standard deviation into between and within components
- \texttt{xline ln wage if id <= 22, label(#3)}
- \texttt{xreg} ln \textit{wage} \#\texttt{5*c.age} \#\texttt{t_exp}, fe vce\texttt{(robust)}

#### Survey Data

- \texttt{svyset} psuid [pweight = \textit{finalwgt}], strata\texttt{(stratid)}
- \texttt{svylist} sex heartatk
- \texttt{xtset} \textit{psuid} \texttt{sample}
- \texttt{xtsum} \textit{var} by \textit{var}

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Inspired by RSstudio’s awesome Cheat Sheets (rstudio.com/resources/cheatsheets)

## Disclaimer

We are not affiliated with Stata. But we like it.

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geocenter.github.io/StataTraining updated June 2016