

SOC 5050: Lab 02

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Directions

Please complete all steps below. If you have not already done-so, you will need to download and extract the course data. Your final do-file, log-file, and the work and answers to Part 4 should be uploaded to your GitHub assignment repository by 4:20pm on Monday, September 5th, 2016.

Part 1: Get Started with GitHub Desktop

1. If you have not already done-so, or are using a new computer, download and install [GitHub Desktop](#).
2. Open up GitHub Desktop and log into your GitHub.com account.
3. Using the GitHub Desktop application, clone your assignment repository, the Core-Documents repository, and the Week-01 and Week-02 repositories. Save these repositories to a dedicated space on your computer for coursework.

Part 2: Get Started with Atom

4. If you have not already done-so, or are using a new computer, download and install [Atom](#).
5. In Atom, add the folder you have dedicated for class as a “project folder” (File ▷ Add Project Folder...).
6. Open Atom’s preferences (Atom ▷ Preferences) and choose Install from the menu on the lefthand side.
7. Search for the package `language-stata` and install it.
8. Once it is installed, close Atom and restart the application.

Part 3: Stata

9. Complete the do-file provided with the lab so that it accomplishes the following tasks using the dataset 34434-0001-Data.dta (the 2011 Current Population Survey). You'll need to copy and paste these data onto your desktop. The do-file provided is setup to copy these data into your assignment folder. The tasks you should complete are:
 - (a) Open the dataset (it is renamed lab-02-data.dta by the do-file)
 - (b) Find the mode of the variable age.
 - (c) Find the mean, median, variance, and standard deviation of the variable age.
 - (d) Find the range of the variable age.
 - (e) Find the mode of the variable race.
 - (f) Create and save a bar chart for the variable race using all of the options discussed this week.
 - (g) Create and save a histogram for the variable age using all of the options discussed this week.
 - (h) Create and save a box plot for the variable age using all of the options discussed this week.
10. Debug your do-file so that it executes without error.

Part 4: Standard Deviation by Hand

2010 Missouri Congressional Election Results					
District	Population	Winner	Party	Incumbent	Turnout
1	587,000	Clay	1	1	184,779
2	706,600	Akin	0	1	265,632
3	625,300	Carnahan	1	1	203,085
4	680,000	Hartzler	0	0	225,056
5	634,000	Cleaver	1	1	191,423
6	700,000	Graves	0	1	221,912
7	722,000	Long	0	0	222,431
8	657,000	Emerson	0	1	195,999
9	683,000	Luetkemeyer	0	1	210,358

Notes: Party value labels are 0 = Republican and 1 = Democrat;

Incumbent value labels are 0 = No and 1 = Yes

11. Calculate the mean and standard deviation for the variable Population in the table above.

Document Details

Document produced by Christopher Prener, Ph.D. for the Saint Louis University course SOC 5050 - QUANTITATIVE ANALYSIS: APPLIED INFERRENTIAL STATISTICS. See the [course wiki](#) and the repository [README.md](#) file for additional details.



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