

## SPSS Introduction

1. Welcome; can't know all of it – like a language you don't know every word but you learn that there are many ways to say the same thing
2. A bit about SPSS
  - a. Click and Code Based
    - i. A bit better at click based
    - ii. But keep the code - paste
  - b. Has 3 Windows
  - c. The Input, the Data, and the Output
  - d. Syntax and Data and Output – Different Files (.sps, .sav, .spv)
  - e. A Value is a data point in a Variable
  - f. Data Types
    - i. Variable – numeric, categorical, string

## SPSS Work Through 1:

1. Make this data by entering into SPSS Data Editor:
2. Label the data and set the data type in Variable View
3. Save the data into the working drive (**Test1.sav**)
4. Close SPSS & Reopen
5. In a new Syntax Editor:
6. Set the Working Drive
  - a. This tells SPSS where to look on your computer for files, and where to save them to.

	ID	Female	MathTest	var
1	1.00	1	75.00	
2	2.00	0	78.00	
3	3.00	1	90.00	
4	4.00	0	88.00	
5	5.00	1	92.00	
6	6.00	1	95.00	
7	7.00	0	85.00	
8	8.00	0	67.00	
9				
10				

`cd '[PASTE FILEPATH]'.`

e.g., `cd '/Users/amp0129/Google Drive/QMER SEDA/2. Data/'.`

- b. Open the data:

`Get`

`File = 'Test1.sav'.`

7. Look at your data. Highlight & hit Cntrl/Commd + R to run syntax. Try the following:
  - a. `DISPLAY DICTIONARY.`
  - b. `DESCRIPTIVES Female MathTest`  
`/STATISTICS=MEAN STDDEV MIN MAX.`
  - c. Go to Graphs -> Legacy Dialogs -> Histograms, put `MathTest` into the Variable area, and click PASTE. See that it's been put in your syntax file.
  - d. Run from the Syntax
  - e. Save the Syntax (or delete it...this has just been an exercise)

**SPSS Practice Run: SEDA Data**

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Ok, this time we are going to open an existing .sav file with data in it. Just as before. From the google drive link, go to [QMER SEDA/2. Data](#) and download the file [SEDA\\_AL\\_Sm.sav](#)

Save the file somewhere on your computer that makes sense and use the ideas that we have talked about. I would suggest something like a [QMER](#) file, with a subfolders for [Syntax](#) and [Data](#). So you would save the data in [QMER/Data](#).

Open the file. Open up SPSS, click on [File->Open->Data](#). Pick the [SEDA\\_SL\\_Sm.sav](#) file.

Keep this syntax and save your syntax file that is now open. Name it something like [SEDA\\_Explore.sps](#). Save it in the right place!

Close SPSS. Now open it up again, but this time open up the syntax file.

Ok, now you've got your syntax file ready to go, and it knows to read the data in. Time to explore.

1. Run a dictionary on the variables
2. Check the descriptives on AchvAll and AchvECD
3. Histogram of AchvAll
4. Try a boxplot of AchvAll by Locale
5. Try a boxplot of AchvAll by Locale by Family SES Quintiles

	N	Minimum	Maximum	Mean	Std. Deviation
All Student Achievement	126	-1.84824	.7868358	-.477111	.4227839
Econ Disadv Achievement	123	-1.83640	.2183657	-.691408	.3223874
Valid N (listwise)	123				

Finally, please take our survey—we need input to make QMER together, and to keep providing these sessions!

[https://auburn.qualtrics.com/jfe/form/SV\\_395b1Sni2laLbUh](https://auburn.qualtrics.com/jfe/form/SV_395b1Sni2laLbUh)

