

SPSS INTRO

For EDUC/PSY 6600

WHAT IS “SPSS”

❖ “Statistics Package for the Social Science”

❖ You can use the program to...

- entry or read in data
- check your data for errors
- explore the data
- run statistical analysis
- create tables & graphs

❖ THREE main windows

- Data Editor (data view & variable view)
 - where you can look at the actual data values
- Syntax
 - where you type or paste commands telling what the computer to do
- Output
 - where the program spits out ‘stuff’ you need to interpret

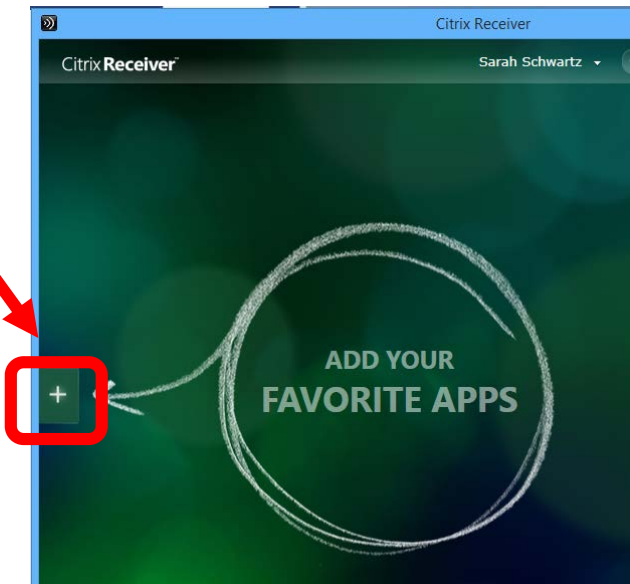
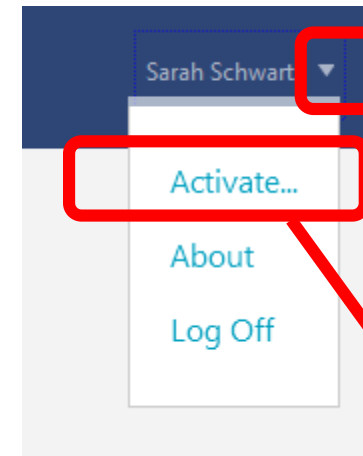
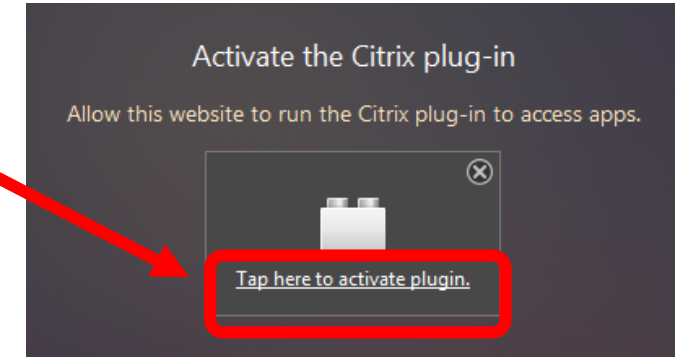
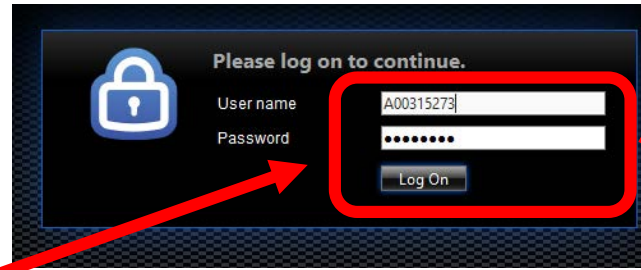
HOW TO GET SPSS

- ❖ Most every computer lab on USU campus has SPSS installed
- ❖ If you are a paying student at USU, you can run SPSS remotely on any other computer for free through “apps.usu.edu” (see Canvas for directions to use Citrix)
- ❖ You can pay big bucks to have your own license \$\$\$
‘Gard Pack 23.0’ Base = \$41/6 months, Premium = \$99/year (summer 2016)

Base	Standard	Professional	Premium
Single-user, desktop application for Windows and Macs. Includes 12 months of technical support.	Single-user, desktop application for Windows and Macs. Includes 12 months of technical support.	Single-user, desktop application for Windows and Macs. Includes 12 months of technical support.	Single-user, desktop application for Windows and Macs. Includes 12 months of technical support.
Starting at \$ 1,170 ^{00 USD} per user per year	Starting at \$ 2,610 ^{00 USD} per user per year	Starting at \$ 5,240 ^{00 USD} per user per year	Starting at \$ 7,820 ^{00 USD} per user per year

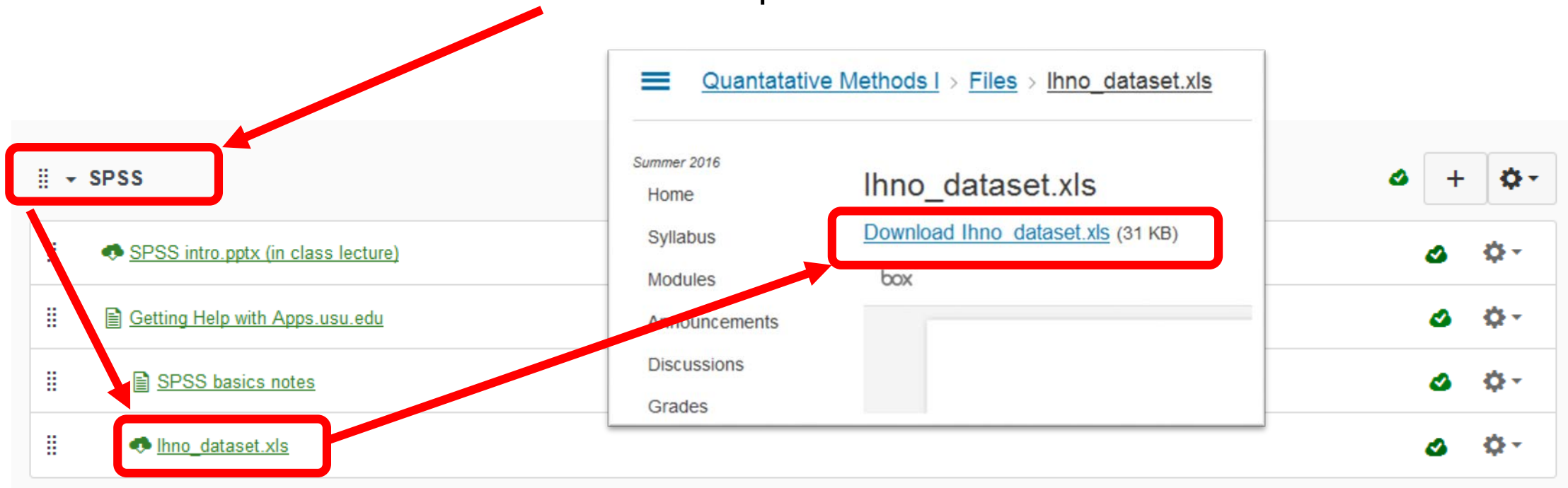
SPSS VIA CITRIX

- ☐ Go to “apps.usu.edu”
- ☐ Login w/ your a-number & strong password
- ☐ Activate the Citrix plug-in (if asked...“allow & remember”)
- ☐ First time you will need to click the down arrow by your name {upper-right corner}, click: Open “receiverconfig.cr”, click: “Add”, you may have to put your password in again
- ☐ In the new ‘green’ window, add your apps to the window by clicking on the “+”

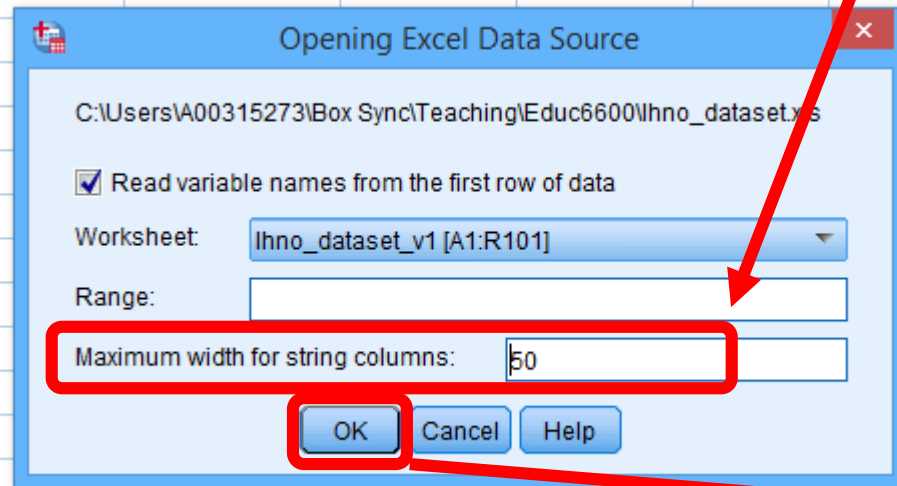


HOW TO OPEN THE IHNO (“EEE-KNOW”) DATASET

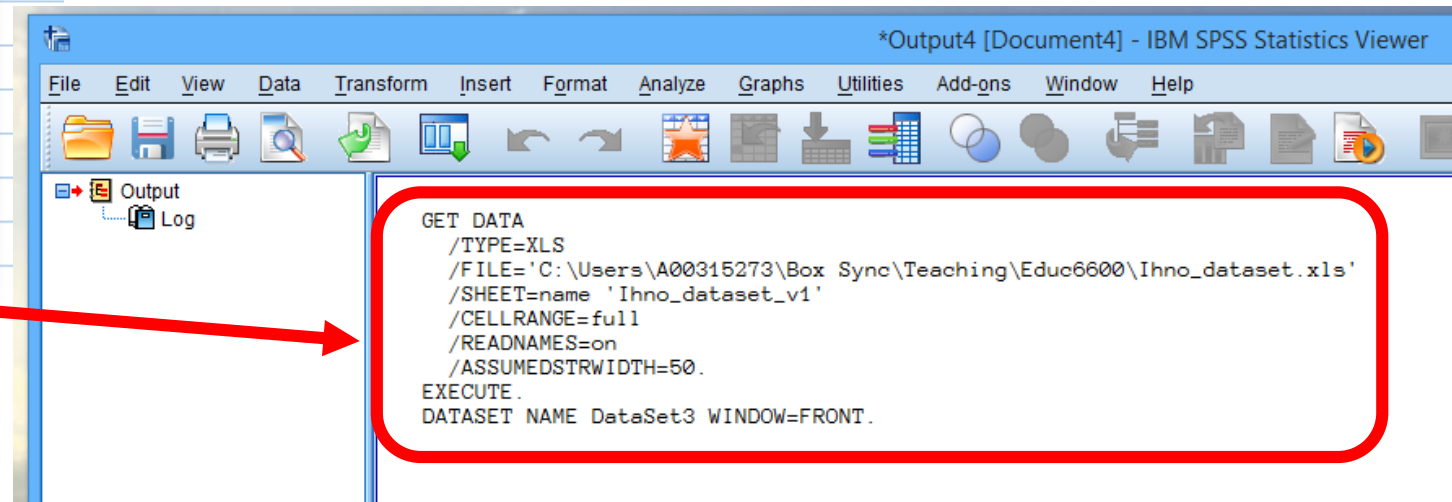
1. Download the dataset to the computer you will be working on by going to our **CANVAS** page, under the **Module** for **SPSS** click on the **lhno_dataset.xls** . Then you will need to click on the writing in blue that says “[Download lhno_dataset.xls](#)”. Save the file somewhere you will remember and can find in the next step.



3. The “opening Excel Data Source” window will then pop up. This is where you can change the ‘sheet’ if there are multiple sheets in the workbook (ignore for now since our file only has one sheet in it). You will probably want to change the “Maximum width for string column” to a smaller number, like 50. Click “OK”.



AN OUTPUT WINDOW:



Note: when you click “OK” SPSS automatically types out the code commands that tell the computer to do all the things we just clicked on. This code appears in the OUTPUT window. The data will now appear in the DATA window.

DATA EDITOR: TWO VIEWS

***Untitled4 [DataSet3] - IBM SPSS Statistics Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	Sub_num	Numeric	11	0		None	None	11	Right	Scale	
2	Gender	Numeric	11	0		None	None	11	Right	Nominal	
3	Major	Numeric	11	0		None	None	11	Right	Nominal	
4	Reason	Numeric	11	0		None	None	11	Right	Nominal	
5	Exp_cond	Numeric	11	0		None	None	11	Right	Nominal	
6	Coffee	Numeric	11	0		None	None	11	Right	Nominal	
7	Num_cups	Numeric	11	0		None	None	11	Right	Nominal	
8	Phobia	Numeric	11	0		None	None	11	Right	Nominal	
9	Prevmath	Numeric	11	0		None	None	11	Right	Nominal	
10	Mathquiz	Numeric	11	0		None	None	11	Right	Scale	
11	Statquiz	Numeric	11	0		None	None	11	Right	Nominal	
12	Exp_sqz	Numeric	11	0		None	None	11	Right	Nominal	
13	Hr_base	Numeric	11	0		None	None	11	Right	Scale	
14	Hr_pre	Numeric	11	0		None	None	11	Right	Scale	
15	Hr_post	Numeric	11	0		None	None	11	Right	Scale	
16	Anx_base	Numeric	11	0		None	None	11	Right	Scale	
17	Anx_pre	Numeric	11	0		None	None	11	Right	Scale	
18	Anx_post	Numeric	11	0		None	None	11	Right	Nominal	
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***Untitled4 [DataSet3] - IBM SPSS Statistics Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Visible: 18 of 18 Variables

	Sub_num	Gender	Major	Reason	Exp_cond	Coffee	Num_cups	Phobia	Prevmath	M
1	1	1	1	3	1	1	0	1	3	
2	2	1	1	2	1	0	0	1	4	
3	3	1	1	1	1	0	0	4	1	
4	4	1	1	1	1	0	0	4	0	
5	5	1	1	1	1	0	1	10	1	
6	6	1	1	1	2	1	1	4	1	
7	7	1	1	1	2	0	0	4	2	
8	8	1	1	3	2	1	2	4	1	
9	9	1	1	1	2	0	0	4	1	
10	10	1	1	1	2	1	2	5	0	
11	11	1	1	1	2	0	1	5	1	
12	12	1	1	1	2	0	0	4	0	
13	13	1	1	1	2	0	1	7	0	
14	14	1	1	3	3	0	2	4	1	
15	15	1	1	1	4	1	3	3	1	
16	16	1	1	1	4	1	0	8	0	
17	17	1	1	1	4	0	0	4	1	
18	18	1	1	1	4	1	3	5	1	
19	19	1	1	3	4	1	2	0	3	
20	20	1	2	1	2	1	1	4	1	
21	21	1	2	2	2	1	2	4	0	
22	22	1	2	1	3	1	0	3	1	
23	23	1	2	1	3	0	2	4	1	
24	24	1	2	2	2	1	2	0	3	
25	25	1	2	2	3	1	2	1	3	
26	26	1	2	2	4	0	0	1	4	
27	27	1	2	2	4	1	2	0	6	
28	28	1	2	3	1	1	3	4	2	
29	29	1	2	1	1	0	0	3	2	
30	30	1	2	3	1	1	0	5	1	
31	31	1	3	1	1	1	1	9	1	
32	32	1	3	1	3	1	3	3	0	
33	33	1	3	1	4	1	2	4	1	

Data View **Variable View**

IBM SPSS Statistics Processor is ready

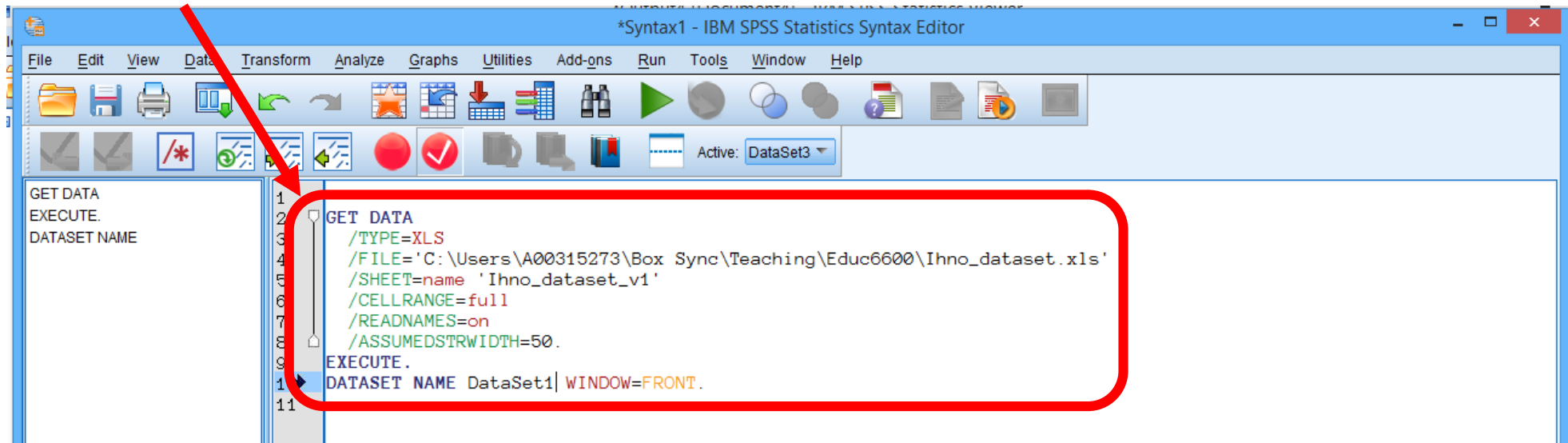
SYNTAX FILE

The third window type is for “SYNTAX”.

To start a new project (from any SPSS window), click: **File > New > Syntax**

There are three ways to get commands in this window:

- 1) Type them by hand, from scratch (the auto-complete is handy!)
- 2) Copy-paste from the output window, a website, or class handout
- 3) Press the ‘paste’ button instead of the ‘OK’ button on most point-and-click SPSS menus



Notice the
nice color
coding 😊

A CASE FOR USING SYNTAX FILES

1. It creates a RECORD of what files you have used and what you have done, saving you time trying to remember what you did...especially when the journal article you submitted comes back for revisions 3 months later
2. You can copy-paste bits and pieces of code to adjust and RE-USE, saving you time with similar steps on the current project and future
3. More advanced analyses have VERY complicated drop-down menus that are confusion, even if you know what you want to do. Syntax is usually more CLEAR.
4. Some things can ONLY be done using syntax...the analysis or option is NOT available in the drop down menus

MAKE LOTS OF NOTES!!!

All code has at least one collaborator...future you!

(use a * at the start of the line and a period at the end)