## Using SPSS

Econ 29000 Kevin R Foster, CCNY Spring 2011

PASW and SPSS are the same program, the publisher just changed the title from SPSS to PASW. In the computer lab you'll find it as SPSS.

	Why le	earn SPSS	5?	
Table COMP: C	omparison of Data Analysis	Packages		
Name	Advantages	Disadvantages	Open source?	Typical users
R	Library support; visualization	Steep learning curve	Yes	Statistics
Matlab	Elegant matrix support; visualization	Expensive; incomplete statistics support	No	Engineering
SciPy/NumPy/ Matplotlib	Python (general-purpose programming language)	Less mature	Yes	Engineering
Excel	Easy; visual; flexible	Large datasets; weak numeric support	No	Business
SV2	Large datasets	Very baroque; hardest to learn	No	Business
Stata (and SPSS)	Easy statistical analysis	Less programmatic than R/Matlab/Py	No	Science (bio and social)
from: http://assets.dolo	reslabs.com/blog/oconnor_biewald_beautiful_	data_final_nonlayout_20090803_20090327	.pdf	





## Save your Work!

- Choose "File" then "Save" and save it to the desktop or somewhere else where you will remember it.
- Save regularly!
- You might "Save As..." a new name, so that if you screw up you can revert to an older version.

• Back it up – email or USB drive











#### Understanding Complicated Variables

- The "Values" label can be tricky to use.
- For instance in the ATUS, as you look at the "Variable View" of your dataset, one of the first variables in the dataset has the name "PEEDUCA", which is short for "PErson EDUCation Achieved" the person's education level.
- But the coding is strange: under "Values" you should see a box with "..." in it click on that to see the whole list of values and what they mean. You'll see that a "39" means that the person graduated high school; a "43" means that they have a Bachelor's degree.
- Without that "Values" information you'd have no way to know that. It also means that you must do a bit of work re-coding variables before you work with the data.
- The variable "TEAGE" (which is the person's age) has numbers like 35, 48, 19 just what you'd expect. These values have a natural interpretation; you don't need a codebook for this one!
- The variable "TESEX" tells whether the person is male or female but it doesn't use text, it just lists either the number 1 or 2. We could guess that one of those is male and the other female, but we'd have to go back to "Variable View" to look at "Values" for "TESEX" to find that a 1 indicates a male and a 2 indicates female.







### **Dummy Variables for Race**

 Create dummy variables for "white", "African-American", "American Indian/ Inuit/ Hawaiian/ Pacific Islander", and "Asian." We'll lump together the people who give multiple identities with those who give a single one (this is standard in much empirical work, although it is evolving rapidly).











# Do lt!

The only way to learn SPSS is to start doing it. Trust me! You'll need to use SPSS for many homework assignments, for your final project, and even on the exams. Start learning it now.