Datasets Access Screens Demo Lab

Datasets for SPSS

- **Most assignments have datasets**
  - In parenthesis in Canvas with related lab or homework
  - Put cursor over link & look @ bottom right status bar for *.sav
  - *Never* use the left mouse button. When? …. (say "Never!")
  - *Always* right-click and save File
    - "Save Target as" (in IE) / "Save Link as…" (in Firefox or Chrome)
    - Pay attention to *where* you save it – otherwise, *you can't open it!*
  - May need to add *.sav before saving (SMB server problems @ 9/11/09)
- **But not today –**
  - For the first SPSS lab (today's), you'll *create your own* dataset
    - create variables, do data entry, & make a composite measure, wow! ☺

Intro to SPSS

What it is,
Where it is, &
How to use it

SOC424 @ CSUN w/ Ellis Godard

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Getting Datasets from Canvas

- ***Do NOT left-click the dataset link, ever***
  - Hint: with cursor over the link, link in status bar ends in *.sav
- Locally, you may get corrupted data (cached junk)
- Elsewhere, it may not work
  - A machine without SPSS won't know what it is
- What to do instead?
  - **Save the file, then open SPSS, then FILE–OPEN–DATA**
    - You'll of course need to know *where* you saved it
  - *Always* right-click & choose "Save Target/File/Link as"
  - Keep track of *where* you saved it
    - Desktop? thumbdrive? local My Documents? network My Documents?

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Lecture Outline

- **Datasets Issues**
- **Program Basics**
  - Access, Variations, & Issues
- **SPSS Overview**
  - Screens, Editors, & Columns
- **Demos**
  - Screens, Columns, Frequencies, & Computing
- **Lab**

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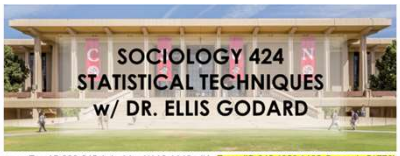

Lectures T and R 830-945, Labs M or W 10-1140, all in Zoom (ID 845 4358 1695, Passcode 51773)
Office Hours T&R 1215-215 or by appointment via Zoom (ID# 308-700-9152, passcode 51773), & online ~24/7
Syllabus - Schedule - Intake Form - Website - Gradebook
Frequently Asked Questions (FAQs) - Mystery Measurements

Key Reminders…

- Readings and Homework are due at *start* of lecture indicated. Those are *not* the dates they are assigned; they are all assigned *now*. (Note late penalty & early bonus, which apply *only* to HWs.)
- Labs are due 30 hours after the *start* of your next lab; no late submissions beyond that, and no makeups of labs are accepted. (I suggest you submit the 1st each day before starting the 2nd.)
- Do *not* use left mouse button to open datasets; right-click and save it, then in SPSS use FILE - OPEN - DATA. *Always!*
- Please contact me ASAP if any links are broken, or any instructions are unclear.
- For other matters, refer to the syllabus and FAQ.

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Frequently Asked Questions

- Check the FAQ page in Canvas for the course
  - Linked many places, inc. top of Canvas
- Examples (relevant to this lecture)
  - Do I need SPSS?
  - My file won't open. **(You probably just clicked it. DON'T!)**
  - Can I do the work at home?
  - Can you explain missing values again?
- Problems w/ VSL (vsl.csun.edu)?
  - Navigate to correct directory – see FAQ, & slides 10&11 above!

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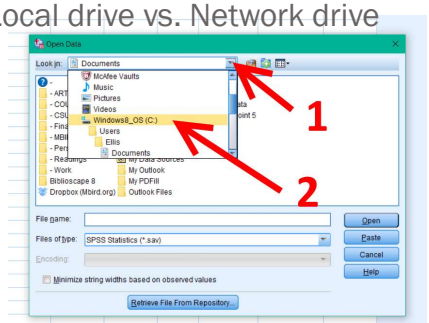
Local drive vs. Network drive



Note: This is the only screenshot in this lecture, AND the only image in the FAQ page in Canvas!

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Options for Access

- ~~Purchase~~ – student version limited; others expensive

A. LAB TIME (if we were on campus)
B. SH180 – open lab times TBA
C. Other labs – see "campus software and labs" link
D. **VSL/MyCSUNSoftware (csun.apporto.com)**
   involves installing the Apporto plug-in, & running SPSS in a browser
   NOT the same as downloading & installing SPSS itself (E…)
E. **Download and install SPSS** – CSUN downloads page
   - Faculty/staff only? *Maybe* undergraduates now?
F. Trial Version from IBM – works only for a limited time
G. **PSPP** – free open-source alternative; fully featured

- See "Options for Getting SPSS (<--- START HERE!!!!)"

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Variations in the Program

- **Multiple versions** of the software on campus
  - No *large* changes from v.9 to v.29+!
  - I'll note those of importance
- **Setup varies from PC to PC**
  - How some choices are enabled and displayed*
- **Setup varies from lab to lab**
  - Including whether there's an icon on desktop
  - Some classes consistently use choices we don't

* e.g. You may want to toggle displays by choosing EDIT – OPTIONS – Display Names/Labels (@top)

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Browser Access

- **VSL/MyCSUNSoftware now csun.apporto.com**
  - Use same login/password as portal, email, etc.
  - Requires install of a Apporto plug-in – see handout in module
    - NOT the same as installing SPSS
- **Can't find a file or open your data?**
  - SPSS is installed on the CSUN network, not your local computer
  - The default directory is thus your student network drive (U? N? T?)
  - To save or open files, you must navigate to a *local* drive (e.g. C:)
  - *If* you are saving files on campus first, use the bottommost option
- **That's the *only* problem students have. But it *does* work!**

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Opening SPSS

- **Desktop icon, StartMenu, Start>AllPrograms**
- **If you get a box that says "….OLE…", click ok**
  - SPSS doesn't want to open the application & the file @ the same time; you'll need to go FILE > OPEN
- **If you get a warning about the license, email me the lab & machine number!**
- **Once you're in, you'll see the "Data View"**
  - It's an empty spreadsheet
  - Each row is a new case, each column a variable
  - Double-click any column heading to see the "Variable View" screen

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SPSS Screens: Data Screens

- **2 Data "screens"** – Variable View & Data View
  - Toggle: menu (Data), tabs (bottom-left), dble-click
  - In DV: rows are cases; columns are variables
  - In VV: rows are variables; cols are aspects of vars
  - Toggle: menu (Data), tabs (bottom-left), dble-click
  - Save data files to diskette/CDR/thumb drive/U drive/email
    - not hard drive, except to email to yourself as attachment
    - Two disks better than one; sometimes formatting screwy
    - ***DO NOT PRINT A DATA SET!! EVER!!***

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SPSS Screens: Output et al

- **Output window**
  - Separate *file* – must *save* separately from data!
  - *Usually* minimize, rather than closing (loses your work!)
  - *But* close to start over – otherwise new stuff appends
- **Syntax window**
  - Commands, if you're into programming or repeat procedures
  - Otherwise, we won't use

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Data Editor in SPSS

- Data View ("Data Spreadsheet" in v.9)
- Variable View ("Define Variable dialog" in v.9)
  - **Name** – variable name (8 character limit) – e.g. EDUC
  - **Type** – numeric, string (text), etc.
  - Width – number of digits or characters
  - Decimals
  - **Label** – "variable label"; e.g. EDUC means "number of years of education"
  - **Values** – "value labels", i.e. what the numbers mean
  - **Missing** – user-defined missing value codes
  - Columns – width of the column in Data View
  - Align – alignment as displayed in Data View
  - **Measure** – scale (interval), ordinal, nominal – **NOT** reliable! – IGNORE!!
  - New far-right column? Whatever… not important ☺
- **Always need underlined 4; *never* use the "Measure" column**

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Demo Preview: Parts of SPSS

- **Screens**
- **Columns**
  - Name & Label today
  - Values & Missings soon
- **Basic output**
  - Analyze – Descriptives – Frequencies *(handout in Canvas)*
  - From Charts: pick histogram
  - From Stats: pick mean, median, mode, quartiles, std dev, range
- **Combining data**
  - Computing today (combines variables)
  - Recoding later (combines values)

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Demo'd: Creating & Manipulating Data

- Creating variables
  - Hours in TikTok, Instagram, Facebook
- Entering cases
  - 3 of us
- Combining variables
  - SocMed = TTHrs + InstaHrs + FaceHrs

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Demo'd: Frequencies, Stats, & Charts

- From the menu:
  - Analyze >Descriptive Statistics >Frequencies
- Choose variable(s) from left
  - Double-click, or click & click arrow
- Will often need to click "Statistics"
  - Inc. Central Tendency & Dispersion
  - Get 6: mean, median, mode, quartiles, std dev, range
- Also, under "Charts" choose "Histograms"
  - Do *not* click "show normal curve". DO NOT ☺

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Demo'd: Frequency Table Output

- **Values**
  - the categories, usually by label
- **Frequencies**
  - the raw counts in each category
- **Percent**
  - the percent of all cases for each value
- **Valid Percent**
  - the percent of *non-missing* cases for each value
- **Cumulative Percent**
  - the percent of all *non-missing* cases of that value or lower value, or of all cases in that row or *higher* rows in the table
  - useful for finding even thirds, fourths, 50/50 threshold, etc.

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Lab Exercise

- Open SPSS to a new/empty data file
- Create two variables – miles and trips
  - Enter variable names in *variable view*
  - You can only type data in the data view
  - Don't change the type of the variable to "string"
- Enter data for 3 cases (you, me, 1 more)
  - How many miles do you live from CSUN?
  - How many times would you come *to* campus each week w/o Zoom?
- Compute a new variable: milestot = miles*trips*2
  - Scan rows to verify that the math worked
- Get a frequency distribution, stats, & histograms for all three
- Print it and put your names on it
  - This is the only lab you'll get credit for output alone
  - Typically, must show that you understand, can use, & are able to interpret it

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Demo'd: Creating Variables

- Raw Variables
  - Type a Name into a new row in Variable View
  - Type a longer Label to say what it is
  - Soon, we'll do Values & Missing (not now)
- Composite Variables
  - From menu, use TRANSFORM > COMPUTE *(handout!)*
  - Follow instructions on the handout from Canvas
  - Don't forget to name the "Target Variable"
    - That's whatever your new thing is called
  - The "Numeric Expression" is just a formula
  - Note that the equals sign ("=") is already there!

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Demo'd: Submitting Output

- You can put names & answers into SPSS output
  - Insert > New Text
- Some (?) of you can print to PDF and submit that
  - But be sure to clean up your output
  - Do *not* submit dozens of pages – *I won't read them* :)
  - You can delete items on the right, or sections using the left
- You can also copy any output to Word or a Google Doc
  - Right-click and Copy, or Copy As… > Image?
  - Or, Edit > Copy, Copy as… > Image, or Copy special?
  - Or screenshot *part* of the page (esp in Mac), NOT whole screen!
  - Or, Can copy individual items or entire sections, using the left