Recent Term's Grades

497L (lots of skipped labs)   **497** (lots of skipped HW)

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In case you thought I was kidding...
Winners of the Fall 2017 Golden Quiz Bananas

https://www.instagram.com/p/BcSzAMgBGwL/   http://bit.ly/2GgOxGR (at Facebook)

How did you come to CSUN?

13%   Entering Freshman
69% B.   Transfer from community college
15% C.   Transfer from another university
3% D.   Something else

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Intro to SPSS

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

SOC497 Research Methods @ CSUN w/ Ellis Godard

Q1. The software we'll use is...

0%   1.   Excel
0%   2.   Mathematica
0%   3.   SAS
98%   SPSS
2% 5.   Stata

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Slide 10

Lecture Outline

- **Program Basics**
  - Access, Variations, & Issues
- **SPSS Overview**
  - Screens, Editors, & Columns
- **Missing Values**
  - Types, Solutions, & Tips
- **Demo/Preview**
  - Screens, Columns, Frequencies, & Indices

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Slide 13

SOC 497

Methods of Social Research w/ Dr. Ellis Godard

Lectures M *and* W 1230-3, Labs M and W 315-530+, via Zoom ID 814 8711 1033
Office Hours M&W 1230-1230 & 3-315 via Zoom (308 700 9152 at other times)
Website ⤷ – Syllabus ⤷ – Schedule ⤷ – Gradebook ⤷ & Progress Reports ⤷
⤷ Frequently Asked Questions ⤷ · Survey Project ⤷ · Mystery Measurements ⤷

Key Reminders...

- **Reading and Homework are due at** *start* **of lecture on the date indicated indicated.** (Note late penalty & early bonus apply *only* to HWs.) They are not *assigned* on those dates; they are all assigned *now*.
- **Labs are due at 930pm on the day after** *your* **next lab meeting. Solo labs are due 3** *additional* **days later.** No late submissions, and no makeups are accepted. Also, I suggest that you submit the 1st each day before starting the 2nd.
- Labs, quizzes, & exams *cannot* be submitted late, nor handled as "make up"
- 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 - and consult the FAQ ⤷ often!

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Slide 11

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! ☺

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Slide 14

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.
  - 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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Slide 12

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?
    - Fall 09: Need to add *.sav before saving (current SMB server problems)

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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 (http://vsl.csun.edu) or MyCSUNSoftware**
     listed last, but used by the most – once you figure it out
     involves installing the Apporto plug-in, and running SPSS in browser
- 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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Slide 16 — Browser Access

Browser Access

- **VSL (http://vsl.csun.edu) or MyCSUNSoftware**
  - 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!**
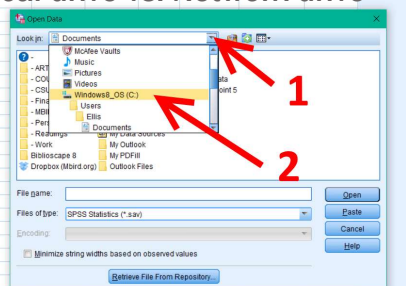
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Slide 19 — Opening SPSS (in labs)

Opening SPSS (in labs)

- **Desktop icon, StartMenu, Start>AllPrograms**
- **If you get a box that says "….OLE…", click ok**
  - SPSS doesn't want to open the applicatoin & 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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Slide 17 — Local drive vs. Network drive

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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Slide 20

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Slide 18 — Variations in the Program

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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Slide 21 — Frequently Asked Questions

Frequently Asked Questions

- Check the FAQ list for the course
  - Linked many places, inc. top of Moodle

- Examples (relevant to this lecture)
  - Do I need SPSS?
  - My file won't open.
  - 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!
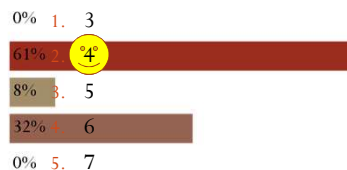
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Slide 22

Pre · Datasets · Access · Basics · **Screens** · Demo · Missings · Etc

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!!*

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Slide 25

Pre · Datasets · Access · Basics · **Screens** · Demo · Missings · Etc

Q2. How many columns will we use?

- 0% 1. 3
- 61% 2. 4
- 8% 3. 5
- 32% 4. 6
- 0% 5. 7

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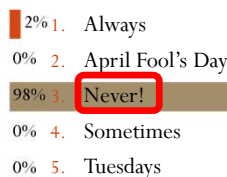Pre · Datasets · Access · Basics · **Screens** · Demo · Missings · Etc

SPSS Screens: Others

- **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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Pre · Datasets · Access · Basics · **Screens** · Demo · Missings · Etc

Q3. When can you use the "measure" column?

- 2% 1. Always
- 0% 2. April Fool's Day
- 98% 3. Never!
- 0% 4. Sometimes
- 0% 5. Tuesdays

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Slide 24

Pre · Datasets · Access · Basics · **Screens** · Demo · Missings · Etc

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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Slide 27

Pre · Datasets · Access · Basics · Screens · **Demo** · Missings · Etc

Demo Preview: Parts of SPSS

- **Screens**
- **Columns**
  - Name & Label today
  - Values & Missings soon
- **Basic output**
  - Analyze – Descriptives – Frequencies
  - 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: Data & Computing

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

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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
  - <u>Don't</u> change the type of the variable to "string"
- Enter data for 3 cases (you, me, 1 more)
- Compute a new variable: milestot = miles*trips*2
  - Scan rows to verify that the math worked
- Get a frequency distribution
  - Analyze – Descriptives – Frequencies (see above, and handout)
- 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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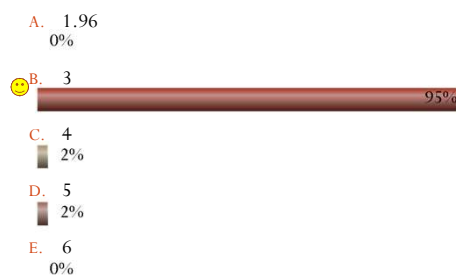
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Frequency Table Output

- **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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Q5. How many backgrounds did I use during lecture today?

- A. 1.96
  - 0%
- B. 3
  - 95%
- C. 4
  - 2%
- D. 5
  - 2%
- E. 6
  - 0%

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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
  - 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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Slide (Team Scores)

Team Scores

Points	Team	Points	Team
17.05	Transfer from commun...		
16.1	Entering Freshman		
16	Transfer from anothe...		
13	Something else		