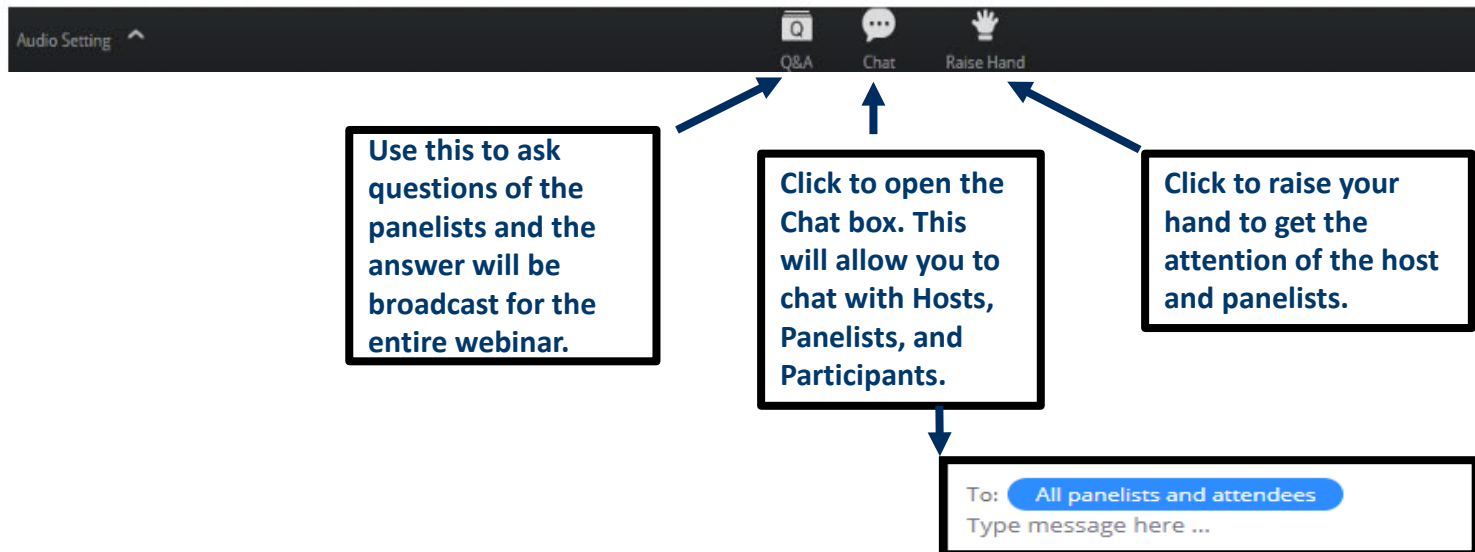




Beyond the Institutional Report: A Guide to Your NSSE Data File

Webinar will begin at 3 pm Eastern Time

Before we begin, please review the Zoom controls below. Leave your audio and video off, unless prompted by a host. You can post any questions in the chat box.



- Visit <https://kb.iu.edu/d/aods#hear-talk> for a comprehensive set of tests and troubleshooting solutions if you have issues with the Zoom software
- To check your audio connection, click the arrow next to the microphone on the left side of the in-meeting toolbar.
- Click “Test Computer Audio” and audio preferences will open.
- You can test the volume and output of your speaker device by selecting “Test Speaker.” If you cannot hear, change the output source by selecting a different speaker device.

- Have your *Institutional Report 2020* folders for reference; access your materials through the NSSE Institution Interface.
- The Chat window allows participants to interact with presenters and each other – make comments about your NSSE practice, ask questions of presenters and of other **users!**



Beyond the Institutional Report: A Guide to Your NSSE Data File

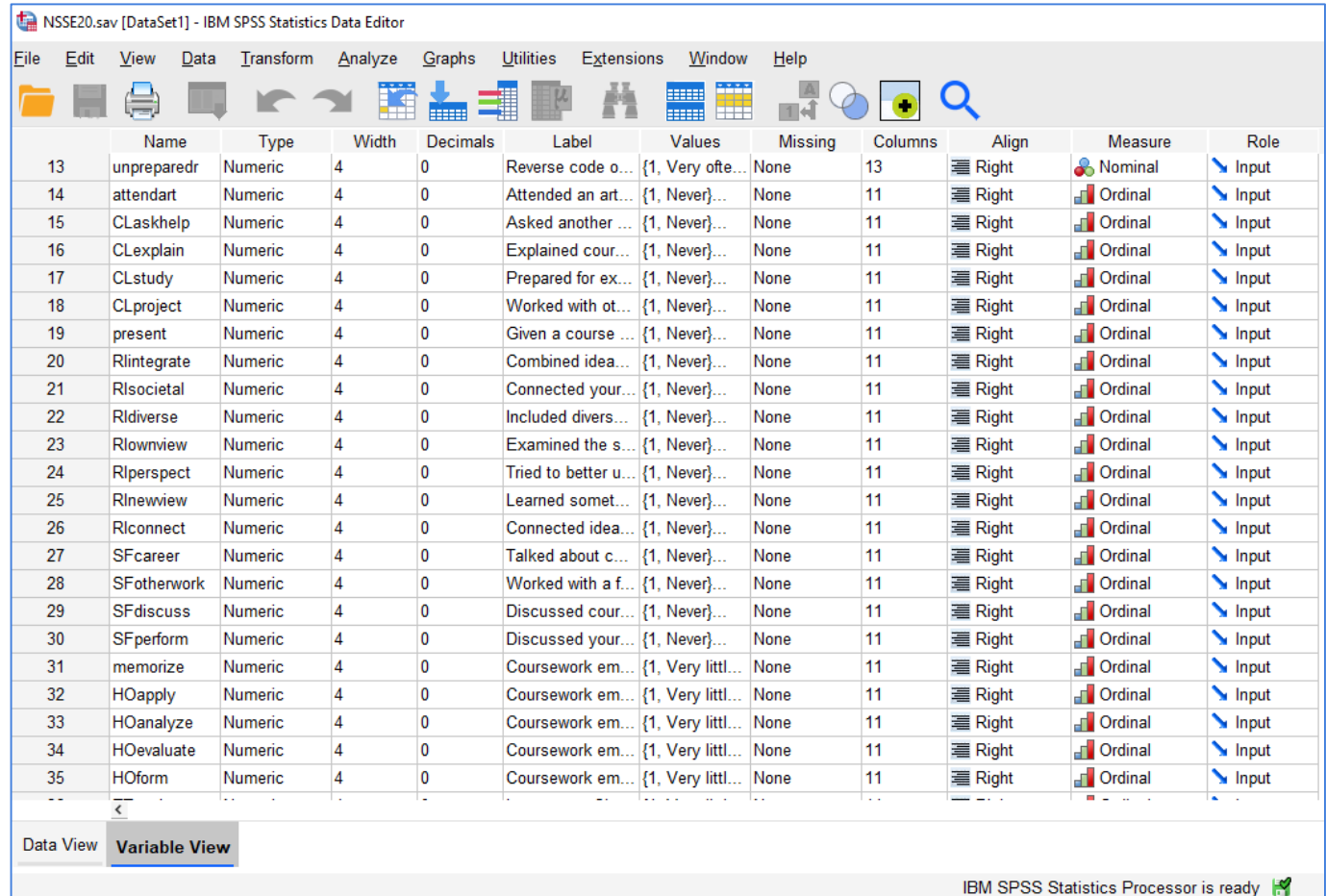
Allison BrckaLorenz

Bob Gonyea

Webinar presented on Wednesday, August 26, 2020

Let's Dig into Our Data!

- In this webinar, we'll take a tour of what NSSE provides in SPSS data files
- We'll go over variable order, variable naming conventions, creation of new variables, and tips for using recoded variables
- Our tour follows SPSS expectations, note that other programs (SAS, etc.) may treat data differently (i.e., missing data)



NSSE20.sav [DataSet1] - IBM SPSS Statistics Data Editor

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
13	unpreparedr	Numeric	4	0	Reverse code o...	{1, Very ofte...	None	13	Right	Nominal	Input
14	attendart	Numeric	4	0	Attended an art...	{1, Never}...	None	11	Right	Ordinal	Input
15	CLaskhelp	Numeric	4	0	Asked another ...	{1, Never}...	None	11	Right	Ordinal	Input
16	CLexplain	Numeric	4	0	Explained cour...	{1, Never}...	None	11	Right	Ordinal	Input
17	CLstudy	Numeric	4	0	Prepared for ex...	{1, Never}...	None	11	Right	Ordinal	Input
18	CLproject	Numeric	4	0	Worked with ot...	{1, Never}...	None	11	Right	Ordinal	Input
19	present	Numeric	4	0	Given a course ...	{1, Never}...	None	11	Right	Ordinal	Input
20	RIintegrate	Numeric	4	0	Combined idea...	{1, Never}...	None	11	Right	Ordinal	Input
21	RIsocietal	Numeric	4	0	Connected your...	{1, Never}...	None	11	Right	Ordinal	Input
22	RIdiverse	Numeric	4	0	Included divers...	{1, Never}...	None	11	Right	Ordinal	Input
23	RIlowview	Numeric	4	0	Examined the s...	{1, Never}...	None	11	Right	Ordinal	Input
24	RIperspect	Numeric	4	0	Tried to better u...	{1, Never}...	None	11	Right	Ordinal	Input
25	RInewview	Numeric	4	0	Learned somet...	{1, Never}...	None	11	Right	Ordinal	Input
26	RIconnect	Numeric	4	0	Connected idea...	{1, Never}...	None	11	Right	Ordinal	Input
27	SFcareer	Numeric	4	0	Talked about c...	{1, Never}...	None	11	Right	Ordinal	Input
28	SFOtherwork	Numeric	4	0	Worked with a f...	{1, Never}...	None	11	Right	Ordinal	Input
29	SFdiscuss	Numeric	4	0	Discussed cour...	{1, Never}...	None	11	Right	Ordinal	Input
30	SFperform	Numeric	4	0	Discussed your...	{1, Never}...	None	11	Right	Ordinal	Input
31	memorize	Numeric	4	0	Coursework em...	{1, Very littl...	None	11	Right	Ordinal	Input
32	HOapply	Numeric	4	0	Coursework em...	{1, Very littl...	None	11	Right	Ordinal	Input
33	HOanalyze	Numeric	4	0	Coursework em...	{1, Very littl...	None	11	Right	Ordinal	Input
34	HOevaluate	Numeric	4	0	Coursework em...	{1, Very littl...	None	11	Right	Ordinal	Input
35	HOform	Numeric	4	0	Coursework em...	{1, Very littl...	None	11	Right	Ordinal	Input

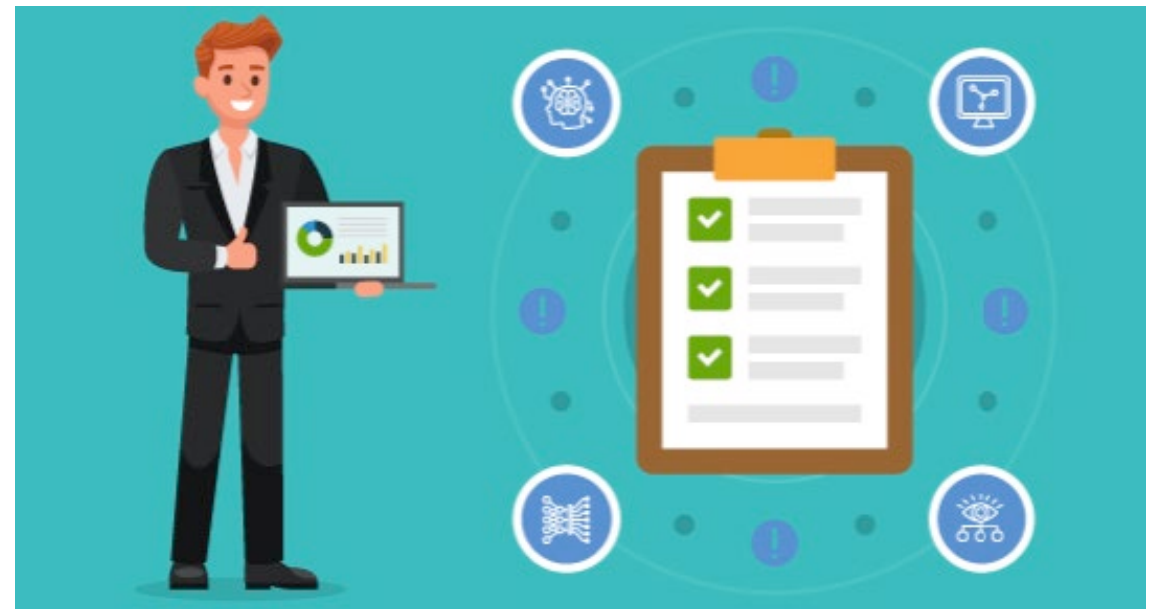
Data View Variable View

IBM SPSS Statistics Processor is ready

Poll: Your NSSE Data Experience

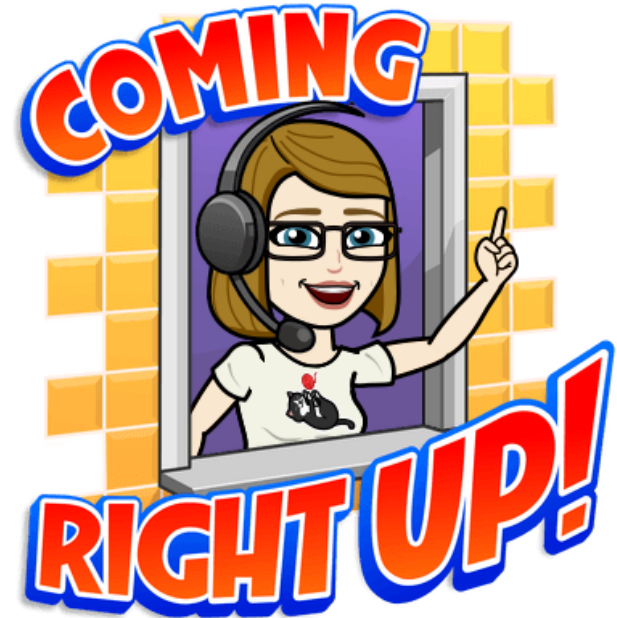
Which of the following best describes your NSSE data experience?

- Nervous rookie
- Excited apprentice
- Intermediate tradesperson but new to NSSE
- Skilled NSSE magician
- Powerful data wizard



Variable Order

- Variables are mostly in order as they appear on the survey
 - Starting with ***askquest*** and ending with ***returnexp***
 - Recodes and related additional variables are included near the originals
- Demographics
 - Starting with ***MAJnum*** and ending with ***sexorient17_txt***
- Engagement Indicators and weights
 - ***HO, RI, LS, QR, CL, DD, SF, ET, QI, SE; weight1, weight2***
- Institution-provided information
 - ***IRsex19*** to ***group5***
- Administrative Variables
 - ***sample*** to ***COVID***
- Extra items (if applicable)
- Student comments (in a separate data file!)



Engagement Indicator Codes

- Variables included within Engagement Indicators start with a two-letter code.
- For example, the items in the Collaborative Learning Engagement Indicator all start with CL:
 - ***CLaskhelp***
 - ***CLexplain***
 - ***CLstudy***
 - ***Clproject***
- HO: Higher-Order Learning
- RI: Reflective & Integrative Learning
- QR: Quantitative Reasoning
- LS: Learning Strategies
- CL: Collaborative Learning
- DD: Discussions with Diverse Others
- SF: Student-Faculty Interaction
- ET: Effective Teaching Practices
- QI: Quality of Interactions
- SE: Supportive Environment



“wr” Prefix: Items About Writing

Original Variables

- ***wrshort***: number of short-length papers written
- ***wrmed***: number of medium-length papers written
- ***wrlong***: number of long-length papers written



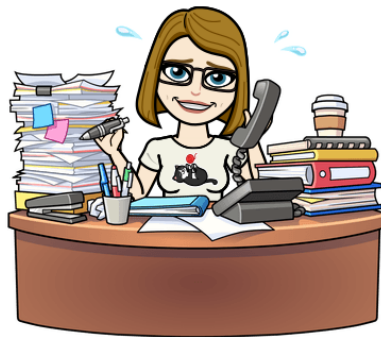
Additional Recodes

- ***wrshortnum***: approximate number of pages written from short papers
- ***wrmednum***: approximate number of pages written from medium papers
- ***wrlongnum***: approximate number of pages written from long papers
- ***wrpages***: approximate total number of written pages

High-Impact Practice Variables

Original Variables

- ***intern***
- ***learncom***
- ***abroad***
- ***research***
- ***capstone***
- ***servcourse***



Recodes

HIPsumFY

- Sum of high-impact practices for first-year students marked *Done* or *in progress* for ***learncom*** and ***research*** or *All*, *Most*, or *Some* for ***servcourse***

HIPsumSR

- Sum of high-impact practices for seniors marked *Done* or *in progress* for ***intern***, ***learncom***, ***abroad***, ***research***, and ***capstone*** or *All*, *Most*, or *Some* for ***servcourse***

Quality of Interactions Variables

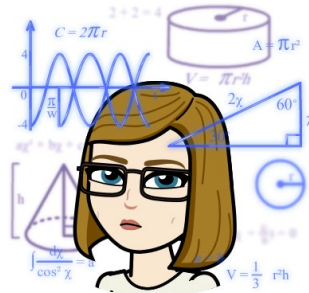
Original

- ***Qlstudent***
- ***Qladvisor***
- ***Qlfaculty***
- ***Qlstaff***
- ***Qladmin***

1 = Poor
7 = Excellent

“Not applicable”
coded as missing

This version of the variables is best used when calculating averages—you don’t want that “not applicable” to skew the average of students’ experiences.



Recodes

- ***QlstudentR***
- ***QladvisorR***
- ***QlfacultyR***
- ***QlstaffR***
- ***QladminR***

1 = Poor
7 = Excellent

9 = Not applicable

This version of the variables is best used when calculating frequencies if you’re interested in knowing how many students marked *Not applicable*.

“tm” Prefix & “hrs” Suffix: Items About Time

tmprep

- 0 hours/week = 1
- 1-5 hours/week = 2
- 6-10 hours/week = 3
- 11-15 hours/week = 4
- 16-20 hours/week = 5
- 21-25 hours/week = 6
- 26-30 hours/week = 7
- More than 30 hours/week = 8

Better for frequencies!

tmprephrs

- 0 hours
- 3 hours
- 8 hours
- 13 hours
- 18 hours
- 23 hours
- 28 hours
- 33 hours

Better for averages!



“tm” and “hrs” Prefixes: Items About Time

Time on Task

- ***tmprep*** (time spent preparing for class) -> ***tmprephrs***
- ***reading***: of the time you spend preparing for class, how much is on reading?
 - *Very little*
 - *Some*
 - *About half*
 - *Most*
 - *Almost all*

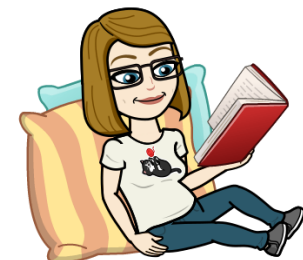
Better for frequencies!

Reading

- ***tmreadinghrs***
 - Estimated number of hours reading calculated by multiplying ***tmprephrs*** by a proportion of reading time (*Very little* = .10, *Some* = .25, *About half* = .50, *Most* = .75, *Almost all* = .90)
- ***tmreadinghrscol*** collapsed recoding:
 - 0 hours = 1
 - More than zero, up to 5 hours = 2
 - More than 5, up to 10 hours = 3
 - More than 10, up to 15 hours = 4
 - More than 15, up to 20 hours = 5
 - More than 20, up to 25 hours = 6
 - More than 25 hours = 7

Better for averages!

Better for frequencies!



“MAJ” Prefix: Items About Student Major

- **MAJnum**: number of majors (one or more than one)
- **MAJfirst**: write-in text box for first major
- **MAJsecond**: write-in text box for second major (if applicable)
- **MAJfirstcode**: code for first major (auto-selected or self-selected)
- **MAJsecondcode**: code for second major (if applicable, auto-selected or self-selected)
- **MAJFself**: flag to indicate first major was self-selected
- **MAJSself**: flag to indicate second major (if applicable) was self selected
- **MAJfirstcol**: collapsed version of major codes into 11 major fields
- **MAJsecondcol**: collapsed version of major codes into 11 major fields



Other Cues To Deciphering Your Data

An *r* suffix can signal a recode

- *unprepared*
- *unpreparedr*

A year can signal a variable change

- *onlinenum20*

An underscore can signal a check-all-that-apply

- *re_amind, re_asian*



An *_all* signals a combined recode of check-all-that applies

- *re_all19*

An *_txt* signals a text box

- *genderid_txt*

col can signal a collapsed categorical

- *countrycol*

_ca signals Canadian versions of select demographics

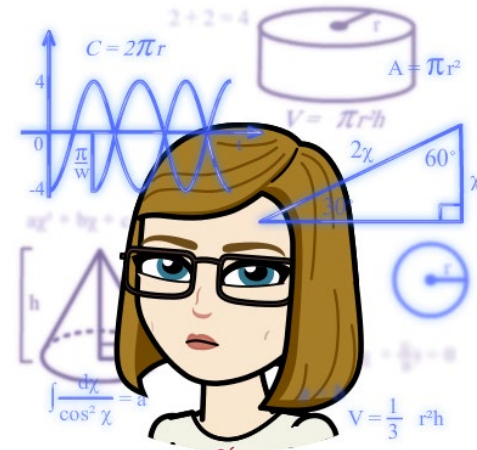
- *attend_voc_ca, internat_ca*

Engagement Indicators

HO, RI, LS, QR, CL, DD, SF, ET, QI, SE

- Individual items within Engagement Indicators are converted to a 60-point scale
- Recoded items are averaged together
- Only Engagement Indicators with more than 5 items allow for students to miss an item and still receive a score

nsse.indiana.edu/nsse/survey-instruments/engagement-indicators.html



Weights

weight1, weight2

- ***weight1*** is calculated separately for first-year and senior students using sex and enrollment status from population files
 - Use ***weight1*** to replicate percentages in *Institutional Reports*
- ***weight2*** is similar except that it resizes respondent counts to match population counts

nsse.indiana.edu/nsse/reports-data/weighting.html



Institution-Reported Variables

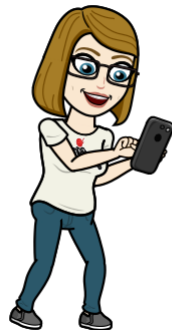
- ***IRsex19, IRrace, IRclass, IRftfy, IRenrollment, IRreportme***
 - ***studentid***
 - Note these may or may not be *actual* student ID numbers, keep track of any crosswalks if you submitted faux identification numbers in your pop file
 - ***actcomp, satm, satv, satw, rSATm, rSATewr***
 - ***group1–group5***
 - Note that ***group1***, if properly formatted, can be available for use in the Report Builder
 - ***bsurvid***
 - ***eligible*****
- Some of these fields are **required** pieces of information from population files (IRsex19, IRclass, IRenrollment, etc.)
 - Many, however, are optional but can be used to merge in other institutional information or facilitate easy analysis with engagement data



**Important variable to replicate your NSSE reports!

Administrative Variables

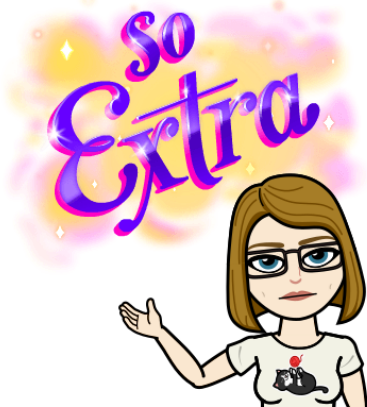
- ***unitid***
 - ***surveyid***
 - ***modecomp***
 - ***mobiledevice, os_firstLogin, os_lastLogin, browser_firstLogin, browser_lastLogin***
 - ***lms_consent, lms_complete***
 - ***sample*****
 - ***logdate***
 - ***duration***
 - ***COVID*** (special for 2020)
- These variables are created by NSSE to help you better understand your administration and how students responded to the survey.
 - These include information about responses from mobile devices, learning management systems, when the survey was completed, and how long students were logged in to the survey portal.



**Important variable to replicate your NSSE reports!

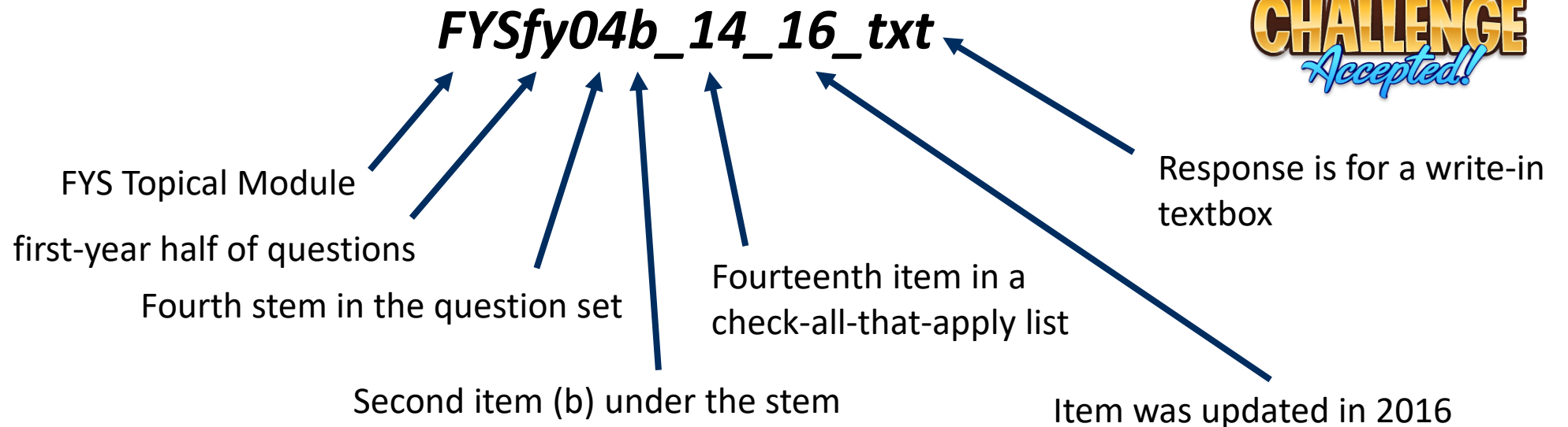
Additional Variables (If Applicable)

- Each Topical Module or consortium item set starts with a three-letter code, for example:
 - Academic Advising
 - ADV 2013-2019, AAD 2020
- Items then follow a pattern of three-letter-code, stem number, item letter (if applicable)
 - **AAD01a, AAD01b, AAD01c, AAD02,** etc.
- Civic Engagement (CIV)
- Development of Transferable Skills (TRN)
- Experiences with Writing (WRI)
- First-Year Experiences and Senior Transitions (FYS)
 - fy represents first-year half of items, sr represents senior half of items
- Global Learning (GBL)
- Inclusiveness and Engagement with Cultural Diversity (ICD)



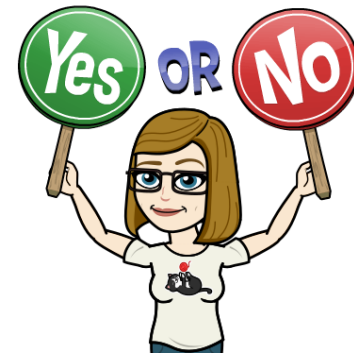
Challenge Question

Our most complicated variable name, what does it mean?



Response Options

- The most frequent, greater emphasis, most positive, or higher agreement response option gets assigned the highest value
 - *Very often* = 4, *Often* = 3, *Sometimes* = 2, *Never* = 1
 - *Very much* = 4, *Quite a bit*, = 3, *Some* = 2, *Very little* = 1
- For dichotomous items, the affirmative response is assigned a 1
 - *Yes* = 1, *No* = 0
 - *Selected* = 1, *Not selected* = 0 (for check-all-that apply)
- *Prefer not to respond* is assigned a 9 (or missing)
- For items with skip logic, -9 is assigned to students who did not receive the item due to a skip

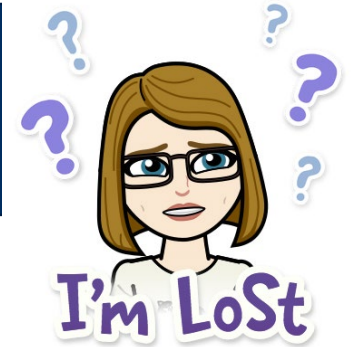


Student Comments

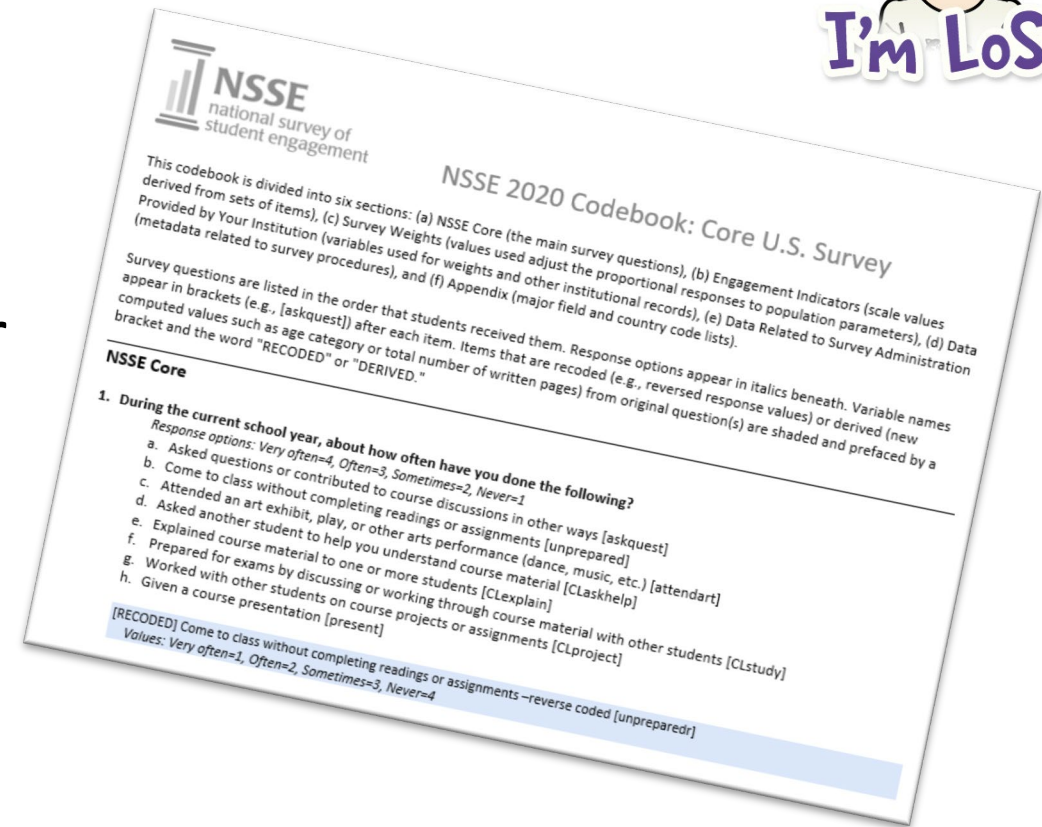
- We return students' responses to large open-ended text boxes in a separate data file from your survey data
- **surveyID** and **studentid** are included to facilitate merging
- Key institution-reported variables (**IRclass**, **IRsex19**, etc.) are included for standalone analyses
- **commprompt** indicates which of the four final comment questions your institution chose to administer to students
- **FinalComment** indicates whether a student provided a comment
- **addcomm** is students' full response to the final open-ended text box
- Some Topical Modules have large open-ended comments and will have a similar series of variables
 - **AAD06comment**, **AAD06_txt**



Too Much? Need Help?



- Many statistical programs can create codebooks from data (including SPSS), but they're not always pleasant to look at.
- We keep up-to-date codebooks for all our item sets on the NSSE website. These include the complete wording of items, response options, and details about recodes and derived variables.



<https://nsse.indiana.edu/nsse/working-with-nsse-data/data-codebooks/index.html>



Thanks so much for joining
us on our data tour!

Find our slides and the
recording of this webinar on the
NSSE website

[nsse.indiana.edu/support-
resources/webinars/index.html](https://nsse.indiana.edu/support-resources/webinars/index.html)

Blog: [NSSEightings.indiana.edu](https://nsseightings.indiana.edu)

@NSSEsurvey  

Join us at our next webinar!

**Real Data Talk: NSSE 2020 Institutions'
Plans to Analyze and Use Their Results**

Thurs., Sept. 3, 3pm Eastern

How are NSSE 2020 participating institutions taking advantage of their results? What can you learn from the new *sense of belonging* items? How have you used the COVID-19 variable? This session will be a facilitated discussion and idea exchange among NSSE users about maximizing 2020 results. When you register for the webinar, you'll be invited to submit a question in advance and can also volunteer to present your plans or ideas (fully or partially baked) for analyses or data use live, during the webinar.