



SPSS OVERVIEW

COM 631/731



Three types of SPSS files

- DATA .sav
- SYNTAX .sps
- OUTPUT .spv or .spo (Older versions of SPSS; 15 and below)

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- DATA .sav
- SYNTAX .sps
- OUTPUT .spv or .spo (Older versions of SPSS; 15 and below)

- *The only type of file that is NOT compatible across different SPSS versions is OUTPUT. This is a long-standing issue with SPSS.*
- *This is why it's nice to use SYNTAX, so you can easily rerun your SPSS jobs on different machines.*
- *You can export OUTPUT to .doc or .pdf*
- *You can download a "legacy viewer" to view .spo files in SPSS versions 16 and above*

Two “views” in DATA files

- 1. Data View
 - *The spreadsheet that shows you your actual data*

- 2. Variable View
 - *Label your variables*
 - *Label your values in variables*
 - *Specify missing values*

Data View

IBM SPSS Statistics Data Editor

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

Visible: 354 of 354 Variables

ID	time\$	timeans\$	q1	q2	q3	q4	q5	q6	q7	q8	q9	q10	q11	q12	q13	q14	q15	q16	q17	q18	q19
1	18	111	6	2	1 lived here b...	9	9	10	99	10	7	0	0	10	7	5	9	0	0	4	2
2	29	112	5	2	Retired and ...	9	8	9	99	9	8	9	9	7	8	9	5	2	2	7	2
3	33	101	4	8	bought prop...	9	8	3	8	8	8	8	9	10	8	2	9	0	0	0	5
4	17	112	6	2	take care of ...	5	7	10	99	8	3	5	1	8	8	0	6	10	0	5	0
5	17	112	2	3	small comm...	7	8	10	9	8	8	8	10	10	8	8	8	0	0	6	3
6	27	102	1	2	clean , nice ...	9	9	10	0	8	9	10	8	10	7	9	8	8	6	9	6
7	16	101	1	1	don't know	10	5	10	10	0	5	0	0	10	10	0	5	5	0	10	5
8	19	111	4	5	job liked the...	9	7	4	99	7	7	0	0	5	9	9	10	7	8	7	5
9	21	112	6	2	getting away ...	9	8	10	8	8	6	10	5	8	99	99	6	4	4	6	7
10	17	111	6	1	convenient l...	8	10	10	10	10	1	10	10	10	10	99	5	8	0	10	3
11	24	116	2	2	no deciding f...	7	6	10	10	5	7	10	7	7	7	0	5	0	0	10	10
12	16	111	2	3	farm comunity	8	10	10	6	10	10	10	8	8	8	8	6	10	8	10	5
13	23	111	6	5	hometown, g...	7	7	10	5	8	7	8	9	9	4	6	9	5	9	4	4
14	19	112	2	4	Schools Ho...	8	7	10	7	7	6	8	8	7	9	5	5	5	4	8	3
15	23	111	1	6	job	9	9	10	5	10	9	10	5	10	10	8	10	10	4	10	6
16	29	113	6	4	safety clean...	7	7	0	7	5	6	0	0	0	8	0	10	10	10	8	8
17	17	111	5	2	assistance t...	6	6	10	99	10	10	10	5	5	5	6	8	8	5	8	8
18	26	112	3	3	Not too clos...	9	9	10	0	8	5	10	2	10	5	5	9	10	10	10	8
19	8	40	6	3	got married ...	8	10	10	0	7	8	8	99	10	10	5	5	8	3	8	8
20	21	111	1	2	location nei...	9	9	10	5	9	9	0	10	10	9	5	10	5	4	8	8
21	14	101	6	8	married to s...	10	10	10	99	10	10	5	10	10	5	2	5	10	5	4	5
22	27	112	4	7	grewup here...	8	8	10	8	10	8	0	0	3	8	5	5	7	2	7	2
23	21	111	6	5	Moved with ...	8	9	10	8	8	7	8	5	8	8	5	7	7	6	7	7
24	26	116	1	4	nice house b...	9	7	7	8	7	9	6	5	10	9	5	8	7	5	10	7
25	24	102	6	5	own land wh...	8	10	10	10	8	8	10	5	10	5	0	5	10	5	5	10
26	23	104	6	8	born there n...	10	10	10	10	10	10	10	10	10	10	5	10	10	10	5	5
27	20	111	4	6	grew up here...	6	5	10	8	10	5	7	8	10	6	5	5	4	2	2	5
28	16	111	3	3	proximity to ...	8	8	10	8	10	7	10	5	10	5	8	5	5	5	8	0
29	28	111	7	1	ex-wife was ...	8	7	10	6	7	5	7	7	9	8	0	5	7	4	10	8
30	27	101	5	8	father worke...	10	10	10	10	10	10	10	10	10	10	10	10	10	5	10	9
31	29	103	5	8	Husband's c...	10	10	10	7	7	7	10	10	5	5	10	10	10	5	5	0
32	20	111	3	3	SCHOOLS ...	5	5	10	5	10	5	0	10	0	10	10	10	0	0	0	0
33	17	111	2	3	Husband	10	10	10	8	8	7	10	7	10	7	7	8	5	10	7	7
34	19	111	2	1	RENT	5	5	10	8	0	8	9	10	7	8	0	8	3	2	2	2
35	16	111	2	2	in law apt	10	10	10	10	10	5	99	99	10	10	99	10	0	0	10	10
36	45	112	2	4	neighborho...	9	9	10	8	8	8	10	7	9	6	5	9	10	5	10	6
37	16	113	2	3	decient house	3	2	10	10	4	8	8	10	5	5	99	10	10	10	10	10

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode:OFF

Windows Taskbar: c63117, Jeffres National..., Inbox - k.neuen..., HandBrake, SPSSIntro.docx..., c63118SPSS Ove..., *Output1 [Docu..., *natcom (3).sav ...

System Tray: 12:28 PM 1/22/2018

Variable View

The screenshot shows the IBM SPSS Statistics Data Editor interface. The main window displays the 'Variable View' for a dataset named 'natcom (3).sav'. The interface includes a menu bar (File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, Add-ons, Window, Help) and a toolbar with various icons. The Variable View table is as follows:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	ID	Numeric	3	0		None	None	8	Right	Scale	Input
2	time\$	Numeric	6	0		None	None	8	Right	Scale	Input
3	timeans\$	Numeric	4	0		None	None	8	Right	Scale	Input
4	q1	Numeric	1	0	Q1:Where live	{1, 1=central city metro neighborhoo...	7 - 99, 0	8	Right	Scale	Input
5	q2	Numeric	1	0	Q2:Time lived there	{1, 1=less than a year}...	9 - 99, 0	5	Right	Scale	Input
6	q3	String	255	0	Q3:Deciding factors	None	None	9	Left	Nominal	Input
7	q4	Numeric	2	0	Q4:Community QOL	{0, 0=worst possible quality of life}...	11 - 99	9	Right	Scale	Input
8	q5	Numeric	2	0	Q5:Neighborhood QOL	{0, 0=worst possible quality of life}...	11 - 99	8	Right	Scale	Input
9	q6	Numeric	2	0	Q6:Value family	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
10	q7	Numeric	2	0	Q7:Value work	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
11	q8	Numeric	2	0	Q8:Value friends	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
12	q9	Numeric	2	0	Q9:Value neigh-community	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
13	q10	Numeric	2	0	Q10:Value religion	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
14	q11	Numeric	2	0	Q11:Value ethnic-racial heritage	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
15	q12	Numeric	2	0	Q12:Value being American	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
16	q13	Numeric	2	0	Q13:Value hobbies-leisure	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
17	q14	Numeric	2	0	Q14:Value organizations	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
18	q15	Numeric	2	0	Q15:Value personal-pol.philosophy	{0, 0=totally unimportant}...	11 - 99	8	Right	Scale	Input
19	q16	Numeric	2	0	Q16:Often talk w/neighbors on street	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
20	q17	Numeric	2	0	Q17:Talk w/neighbors more than most	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
21	q18	Numeric	2	0	Q18:Greet passersby	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
22	q19	Numeric	2	0	Q19:Hear neigh problems word-of-mouth	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
23	q20	Numeric	2	0	Q20:Hear neigh problems community paper	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
24	q21	Numeric	2	0	Q21:Comfort voicing complaints public me...	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
25	q22	Numeric	2	0	Q22:People afraid to speak up	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
26	q23	Numeric	2	0	Q23:Public officials receptive	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
27	q24	Numeric	2	0	Q24:Talk pol w/neighbors election time	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
28	q25	Numeric	2	0	Q25:Talk pol w/family, friends election time	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
29	q26	Numeric	2	0	Q26:Feel lost if moved from neighborhood	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
30	q27	Numeric	2	0	Q27:Feel part of community	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
31	q28	Numeric	2	0	Q28:Feel strong ID w/community	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
32	q29	Numeric	2	0	Q29:Enjoy living in neighborhood	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
33	q30	Numeric	2	0	Q30:Feel safe, secure in neighborhood	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
34	q31	Numeric	2	0	Q31:Public officials don't care what I think	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
35	q32	Numeric	2	0	Q32:Have little influence over local gov	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
36	q33	Numeric	2	0	Q33:Don't have say about what gov does	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
37	q34	Numeric	2	0	Q34:No neigh homes visited	{0, 0=None}...	11 - 99	8	Right	Scale	Input
38	q35	Numeric	2	0	Q35:No neighbors know	{0, 0=None}...	11 - 99	8	Right	Scale	Input
39	q36	Numeric	1	0	Q36:% friends living in same community	{0, 0=None}	6 - 9	8	Right	Scale	Input

The bottom of the window shows the 'Data View' and 'Variable View' tabs, with 'Variable View' selected. The status bar at the bottom indicates 'IBM SPSS Statistics Processor is ready' and 'Unicode: OFF'. The system tray shows the time as 12:29 PM on 1/22/2018.

Creating new variables...common examples:

- 1. Recoding variables (ALWAYS “into different variables”!)
 - *e.g., reverse code an item*
- 2. Computed scales

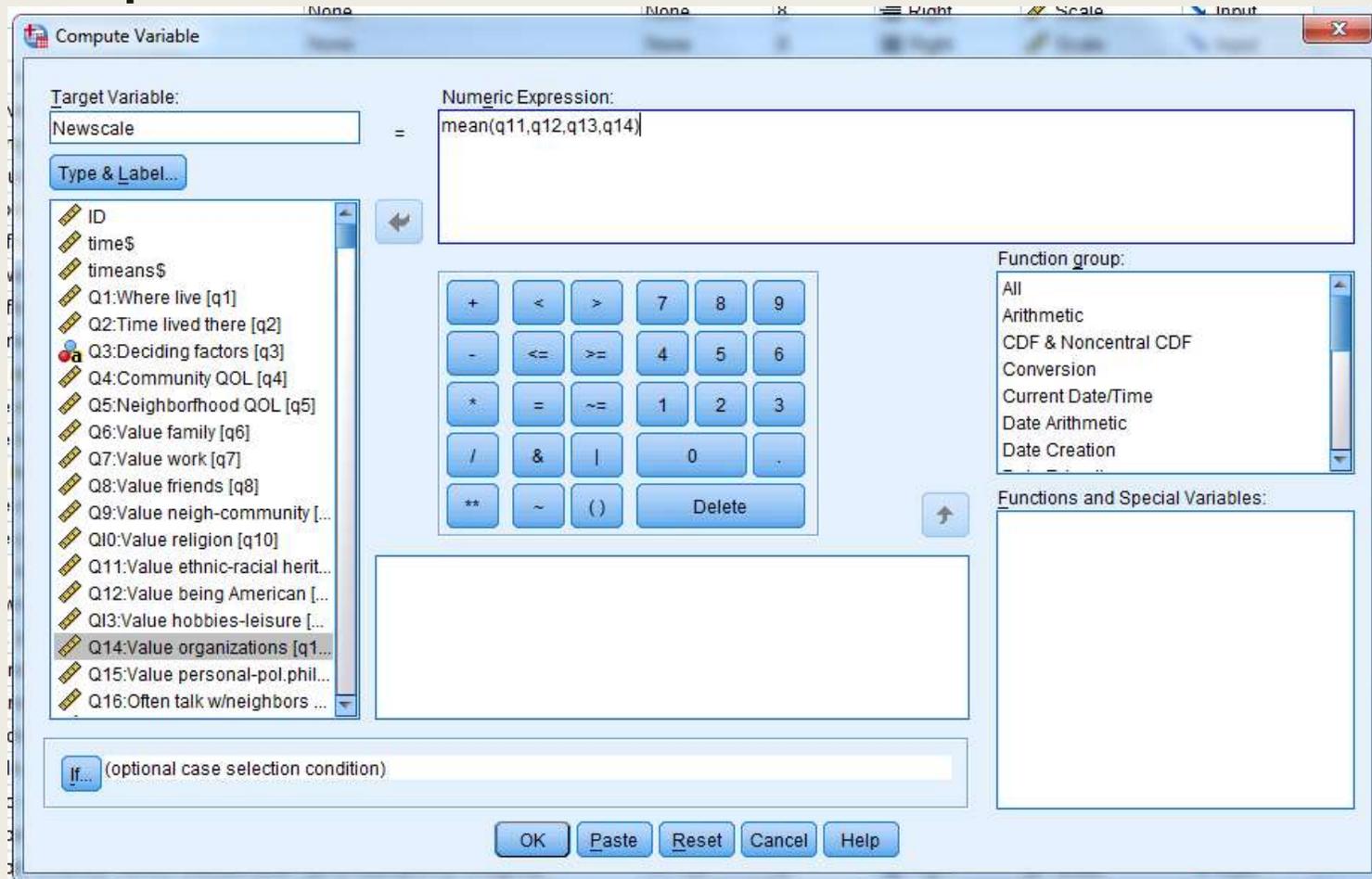
Recoded variables

The screenshot displays the SPSS 'Recode into Different Variables' dialog box. The main window shows a list of variables on the left, including 'ID', 'time\$', 'timeans\$', and various 'Q' variables (e.g., 'Q1:Where live [q1]', 'Q2:Time lived there [q2]', etc.). The 'Numeric Variable -> Output Variable:' section shows 'q4' being mapped to 'q4RECODED'. The 'Output Variable:' section has 'Name: q4RECODED' and an empty 'Label:' field. Below this is a 'Change' button.

The 'Recode into Different Variables: Old and New Values' sub-dialog box is open, showing mapping rules. The 'Old Value' section has radio buttons for 'Value:', 'System-missing', 'System- or user-missing', 'Range:', 'Range, LOWEST through value:', 'Range, value through HIGHEST:', and 'All other values'. The 'New Value' section has radio buttons for 'Value:', 'System-missing', and 'Copy old value(s)'. Below these are 'Add', 'Change', and 'Remove' buttons. A list titled 'Old -> New:' shows the following mappings: 1 -> 5, 2 -> 4, 3 -> 3, 4 -> 2, and 5 -> 1. At the bottom, there are 'Continue', 'Cancel', and 'Help' buttons.

Variable	Value Labels	Values	Width	Align	Scale	Input
Q21: Common voicing complaints public me...	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q22: People afraid to speak up	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q23: Public officials receptive	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q24: Talk pol w/neighbors election time	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q25: Talk pol w/family, friends election time	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q26: Feel lost if moved from neighborhood	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input
Q27: Feel part of community	{0, 0=Completely disagree}...	11 - 99	8	Right	Scale	Input

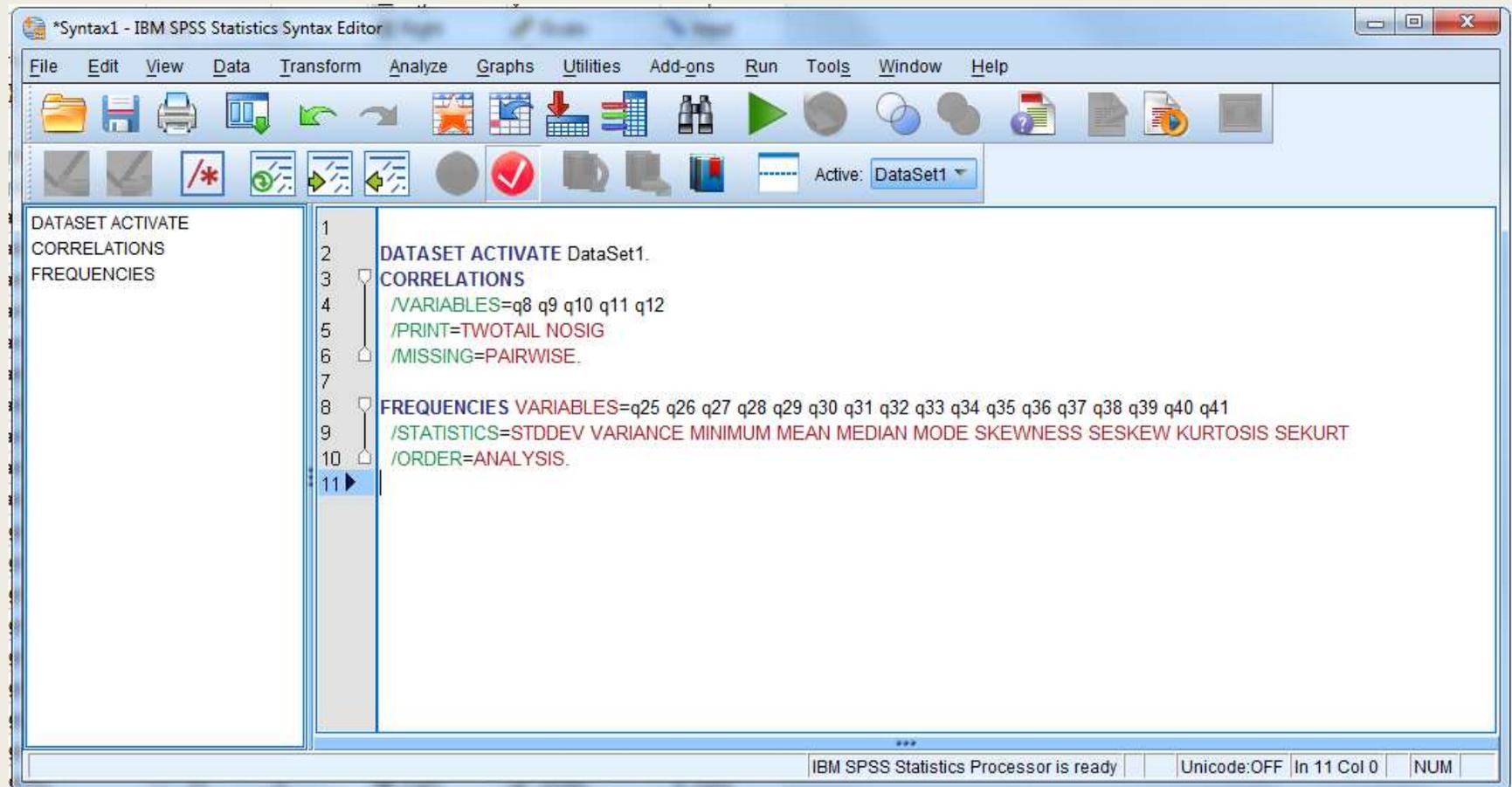
Computed scales



Keeping a record of your SYNTAX

- Again, it's nice to use SYNTAX so that you can rerun your SPSS jobs across machines and across SPSS versions. You also can share your saved SPSS SYNTAX with others who have SPSS.
- 1. “Display commands in the log”—make sure your installation of SPSS, or the one you are using in a lab, has this set. This can be set by doing the following: Edit → Options → [Draft] Viewer → Display commands in the log.
- 2. When running SPSS procedures with the pull-down commands, use the “Paste” option to write to a syntax file. Then, you can run from the syntax file if you wish, either immediately or later.

SYNTAX file



end