

## File Information

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
ID	1	<none>	Scale	Input	12
condition	2	condition	Scale	Input	5
condition_label	3	condition_label	Nominal	Input	15
laplong	4	effect-coded condition variable; laptop = .5, longhand = -.5	Scale	Input	10
whichtalk	5	whichtalk	Scale	Input	5
whichtalklabel	6	whichtalklabel	Nominal	Input	15
obj_raw	7	performance on factual-recall items (raw score)	Scale	Input	10
open_raw	8	performance on conceptual-application items (raw score)	Scale	Input	10
obj_rawZ	9	performance on factual-recall items (raw score standardized within lecture)	Scale	Input	10
open_rawZ	10	performance on conceptual-application items (raw score standardized within lecture)	Scale	Input	10

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
ID	Right	F8	F8	
condition	Right	F40.2	F40.2	
condition_label	Left	A255	A255	
laplong	Right	F8.2	F8.2	
whichtalk	Right	F40.2	F40.2	
whichtalklabel	Left	A255	A255	
obj_raw	Right	F8.2	F8.2	-99.00
open_raw	Right	F8.2	F8.2	-99.00
obj_rawZ	Right	F8.2	F8.2	-99.00
open_rawZ	Right	F8.2	F8.2	-99.00

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
obj_index	11	performance on factual-recall items (index score)	Scale	Input	11
open_index	12	performance on conceptual-application items (index score)	Scale	Input	12
obj_indexZ	13	performance on factual-recall items (index score standardized within lecture)	Scale	Input	12
open_indexZ	14	performance on conceptual-application items (index score standardized within lecture)	Scale	Input	13
obj_index_prop	15	performance on factual-recall items (proportion correct based on index score)	Scale	Input	16
open_index_prop	16	performance on conceptual-application items (proportion correct based on index score)	Scale	Input	17

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
obj_index	Right	F8.2	F8.2	-99.00
open_index	Right	F8.2	F8.2	-99.00
obj_indexZ	Right	F8.2	F8.2	-99.00
open_indexZ	Right	F8.2	F8.2	-99.00
obj_index_prop	Right	F8.2	F8.2	-99.00
open_index_prop	Right	F8.2	F8.2	-99.00

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
wordcount	17	number of words in participant notes based on tidytext in R	Scale	Input	11
pltrigrams	18	number of threegrams from lecture in participant notes	Nominal	Input	12
ltrigrams	19	number of threegrams in lecture	Scale	Input	11
ptrigrams	20	number of threegrams in participant notes	Scale	Input	11
threegramspercentl	21	% of trigrams from lecture in participant notes as percentage of all trigrams in lecture	Scale	Input	20
threegramspercentp	22	% of trigrams from lecture in participant notes as percentage of all trigrams in participant notes	Scale	Input	20
relatedknowledge	23	How much knowledge related to the topic of the talk did you have before today?	Scale	Input	5

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
wordcount	Right	F8.2	F8.2	
pltrigrams	Right	F8.2	F8.2	
ltrigrams	Right	F8.2	F8.2	
ptrigrams	Right	F8.2	F8.2	
threegramspercentl	Right	F8.2	F8.2	
threegramspercentp	Right	F8.2	F8.2	
relatedknowledge	Right	F40	F40	-99

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
laptopornotebook	24	Do you normally take notes in class on your laptop or in a notebook? Why?	Nominal	Input	15
betterlorn	25	In general, do you think it is better for learning purposes to take notes on a laptop or in a notebook?	Scale	Input	8
lornchoicedepends	26	Does your choice to take notes on a laptop or in a notebook differ depending on whether it is a humanities, science, or math course?	Nominal	Input	15
timereviewingnotes	27	How long do you normally spend reviewing notes when studying for a test?	Nominal	Input	15
otherthoughts	28	Do you have any other thoughts regarding note-taking on a laptop vs. in a notebook?	Nominal	Input	15

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
laptopornotebook	Left	A2000	A2000	
betterlorn	Right	F40	F40	-99
lornchoicedepends	Left	A2000	A2000	
timereviewingnotes	Left	A2000	A2000	
otherthoughts	Left	A2000	A2000	



### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
studyabout	29	What do you think this study is about?	Nominal	Input	119
year	30	What year will you graduate?	Scale	Input	5
concentration	31	What is your concentration (if you have decided on one)?	Nominal	Input	15
gender_coded	32	Gender determined by coding open-ended responses to gender variable	Nominal	Input	8
race_ethnicity_coded	33	Participant race/ethnicity determined by coding open-ended responses to raceethnicity variable	Nominal	Input	8

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
studyabout	Left	A2000	A2000	
year	Right	F40	F40	-99
concentration	Left	A2000	A2000	
gender_coded	Right	F8.2	F8.2	-99.00
race_ethnicity_coded	Right	F8.2	F8.2	-99.00

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_1	34	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I would prefer complex to simple problems.	Scale	Input	5
NFC_2	35	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I like to have the responsibility of handling a situation that requires a lot of thinking.	Scale	Input	5
NFC_3R	36	<none>	Scale	Input	10
NFC_4R	37	<none>	Scale	Input	10

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_1	Right	F40	F40	-99
NFC_2	Right	F40	F40	-99
NFC_3R	Right	F8.2	F8.2	
NFC_4R	Right	F8.2	F8.2	

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_5R	38	<none>	Scale	Input	10
NFC_6	39	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I find satisfaction in deliberating hard and for long hours.	Scale	Input	5
NFC_7R	40	<none>	Scale	Input	10
NFC_8R	41	<none>	Scale	Input	10
NFC_9R	42	<none>	Scale	Input	10

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_5R	Right	F8.2	F8.2	
NFC_6	Right	F40	F40	-99
NFC_7R	Right	F8.2	F8.2	
NFC_8R	Right	F8.2	F8.2	
NFC_9R	Right	F8.2	F8.2	

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_10	43	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - The idea of relying on thought to make my way to the top appeals to me.	Scale	Input	5
NFC_11	44	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I really enjoy a task that involves coming up with new solutions to problems.	Scale	Input	5

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_10	Right	F40	F40	-99
NFC_11	Right	F40	F40	-99

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_12R	45	<none>	Scale	Input	10
NFC_13	46	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I prefer my life to be filled with puzzles that I must solve.	Scale	Input	5

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_12R	Right	F8.2	F8.2	
NFC_13	Right	F40	F40	-99



### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_14	47	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - The notion of thinking abstractly is appealing to me.	Scale	Input	5
NFC_15	48	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I would prefer a task that is intellectual, difficult, and important to one that is somewhat important but does not reqF4020	Scale	Input	5
NFC_16R	49	<none>	Scale	Input	10

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_14	Right	F40	F40	-99
NFC_15	Right	F40	F40	-99
NFC_16R	Right	F8.2	F8.2	

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
NFC_17R	50	<none>	Scale	Input	10
NFC_18	51	Instructions: For each of the statements below, please indicate to what extent you agree or disagree that it is characteristic of you. - I usually end up deliberating about issues even when they do not affect me personally.	Scale	Input	5
NFC	52	Need for Cognition total score	Scale	Input	10
values.completed	53	completed all sets	Nominal	Input	12
values.rspan	54	traditional "absolute rspan" score: sum of all perfectly recalled sets	Scale	Input	12
values.totalcorrectletters	55	the total number of letters recalled in the correct position	Scale	Input	12

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
NFC_17R	Right	F8.2	F8.2	
NFC_18	Right	F40	F40	-99
NFC	Right	F8.2	F8.2	
values.completed	Right	F1	F1	
values.rspan	Right	F2	F2	
values.totalcorrectletters	Right	F2	F2	

### Variable Information

Variable	Position	Label	Measurement Level	Role	Column Width
values.sentencetotalerrors	56	counts number of any errors (speed or accuracy) made during sentence classification within the current block	Nominal	Input	12
values.sentence-speederrors	57	counts the number of times participant ran out of time when reading the sentence within the current block	Nominal	Input	12
values.sentence-accerrors	58	counts the number of incorrectly classified sentences within the current block	Nominal	Input	12
typingwpm	59	words per minute typed in 5-minute typing test	Scale	Input	8
typingacc	60	accuracy % during 5-minute typing test	Scale	Input	8

### Variable Information

Variable	Alignment	Print Format	Write Format	Missing Values
values.sentencetotalerrors	Right	F2	F2	
values. sentencespeederrors	Right	F2	F2	
values.sentenceaccerrors	Right	F2	F2	
typingwpm	Right	F8.2	F8.2	-99.00
typingacc	Right	F8.2	F8.2	-99.00

Variables in the working file

## Variable Values

Value		Label
condition	.00	laptop
	1.00	longhand
laplong	-.50	longhand
	.50	laptop
whichtalk	1.00	islam
	2.00	inequalities
	3.00	ideas
	4.00	indus
	5.00	algorithms
relatedknowledge	0	None at all0
	1	1
	2	2
	3	3
	4	4
betterlorn	5	Expert knowledge5
	1	Laptop significantly better1
	2	2
	3	3
	4	4
	5	5
	6	6
year	7	Notebook significantly better7
	2017	2017
	2018	2018
	2019	2019
gender_coded	2020	2020
	1.00	female
race_ethnicity_coded	2.00	male
	1.00	Black or African American
	2.00	Asian
	3.00	Multiracial
	4.00	White
	5.00	Hispanic or Latino

## Variable Values

Value		Label
NFC_1	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4
NFC_2	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4
NFC_3R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3



## Variable Values

Value		Label
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_4R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_5R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4

## Variable Values

Value		Label
NFC_6	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4
NFC_7R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_8R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3

## Variable Values

Value		Label
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_9R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_10	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4

## Variable Values

Value		Label
NFC_11	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4
NFC_12R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_13	-4	very strong disagreement -4
	-3	strong disagreement -3

## Variable Values

Value		Label
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4
NFC_14	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
NFC_15	-4	very strong disagreement -4
	-3	strong disagreement -3
	-2	moderate disagreement -2
	-1	slight disagreement -1
	0	neither agreement nor disagreement 0
	1	slight agreement +1
	2	moderate agreement +2
	3	strong agreement +3
	4	very strong agreement +4

## Variable Values

Value		Label
NFC_16R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_17R	-4.00	very strong disagreement -4
	-3.00	strong disagreement -3
	-2.00	moderate disagreement -2
	-1.00	slight disagreement -1
	.00	neither agreement nor disagreement 0
	1.00	slight agreement +1
	2.00	moderate agreement +2
	3.00	strong agreement +3
	4.00	very strong agreement +4
NFC_18	-4	very strong disagreement -4
	-3	strong disagreement -3

### Variable Values

Value	Label
-2	moderate disagreement -2
-1	slight disagreement -1
0	neither agreement nor disagreement 0
1	slight agreement +1
2	moderate agreement +2
3	strong agreement +3
4	very strong agreement +4