

Supplementary Materials: Cognitive Load and Moral Dumbfounding

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Abstract

Six studies etc.

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List of Tables

Table 1*Study 1 – Changes in Judgment*

Initial Judgment	Revised Judgment	Total Changed
neutral	right	1
neutral	wrong	3
wrong	neutral	7
wrong	right	1

List of Figures

Table 2*Study 1 – Response to the critical slide depending on cognitive load*

	Cognitive Load		Control	
	N	%	N	%
It's wrong and I can provide a valid reason.	12	36%	21	64%
It's wrong but I can't think of a reason.	6	18%	7	21%
There is nothing wrong.	15	45%	5	15%

Table 3*Study 6 – Changes in Judgment (full sample)*

Initial Judgment	Revised Judgment	Total Changed
neutral	right	8
neutral	wrong	19
right	neutral	10
right	wrong	61
wrong	neutral	29
wrong	right	73

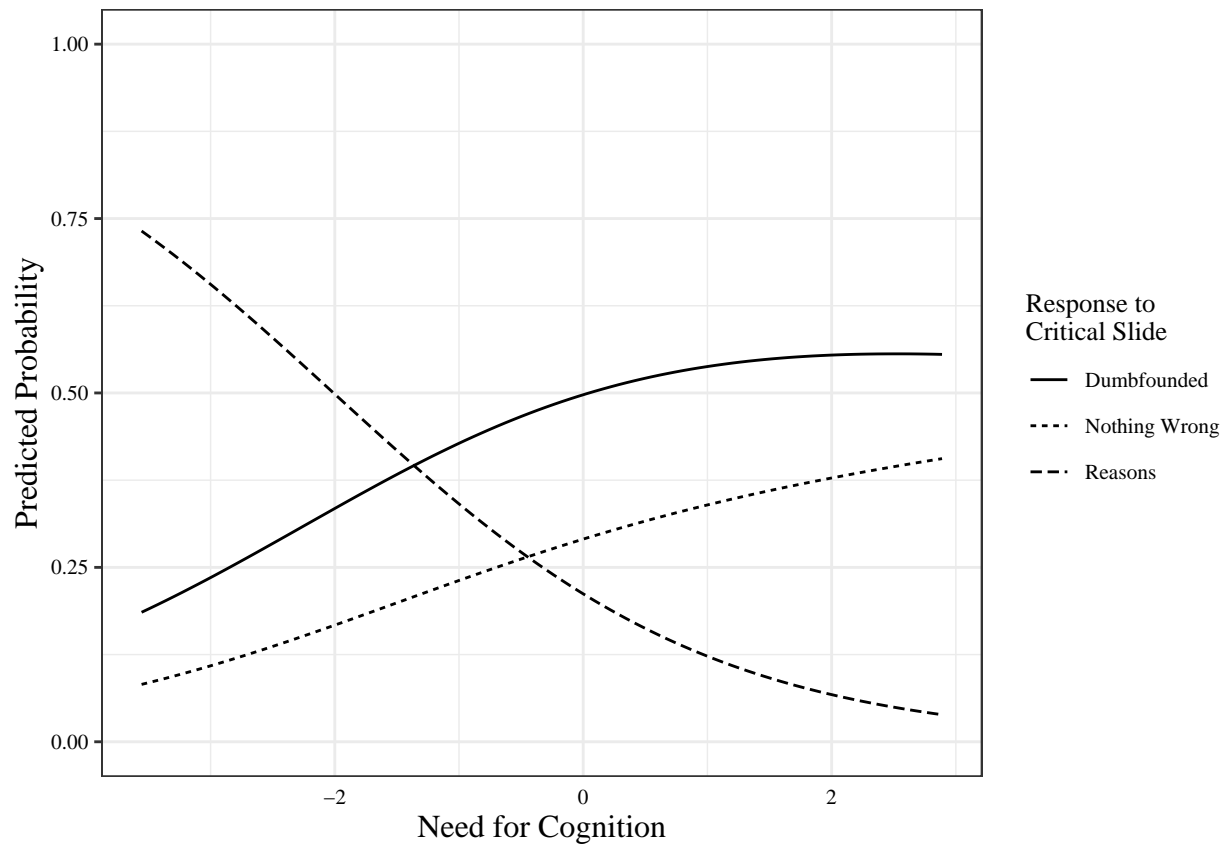
Table 4*Study 6 – Changes in Judgment for each Scenario*

Scenario	Initial Judgment	Revised Judgment	Total Changed
Julie and Mark	neutral	right	1
	neutral	wrong	4
	right	wrong	6
	wrong	neutral	9
	wrong	right	8
Jennifer	neutral	right	1
	neutral	wrong	3
	right	neutral	2
	right	wrong	10
	wrong	neutral	2
Trolley	wrong	right	11
	neutral	right	4
	neutral	wrong	7
	right	neutral	4
	right	wrong	18
Heinz	wrong	neutral	14
	wrong	right	26
	neutral	right	2
	neutral	wrong	5
	right	neutral	4
	right	wrong	27
	wrong	neutral	4
	wrong	right	28

Table 5

Study 6 – Response to the critical slide depending on cognitive load (full sample)

	Cognitive Load		Control	
	N	%	N	%
It's wrong and I can provide a valid reason.	113	56%	143	67%
It's wrong but I can't think of a reason.	55	27%	36	17%
There is nothing wrong.	35	17%	36	17%

**Figure 1**

Study 1: Probability of selecting each response to the critical slide depending on Need for Cognition

Table 6

Study 6 – Response to the critical slide depending on cognitive load, for each scenario

Scenario	Response	Cognitive Load		Control	
		N	%	N	%
Julie and Mark	Reasons	106	54%	123	57%
	Dumbfounded	51	26%	51	24%
	Nothing Wrong	40	20%	41	19%
Jennifer	Reasons	142	65%	173	81%
	Dumbfounded	67	31%	30	14%
	Nothing Wrong	9	4%	11	5%
Trolley	Reasons	97	47%	135	62%
	Dumbfounded	72	35%	55	25%
	Nothing Wrong	39	19%	26	12%
Heinz	Reasons	113	56%	143	67%
	Dumbfounded	55	27%	36	17%
	Nothing Wrong	35	17%	36	17%

Table 7

Study 6 – Observed counts, expected counts, and standardised residuals for each response to the critical slide depending on cognitive load (Julie and Mark)

		Cognitive Load	Control
Observed count	Reasons	106.00	123.00
	Dumbfounded	51.00	51.00
	Nothing Wrong	40.00	41.00
Expected count	Reasons	109.50	119.50
	Dumbfounded	48.77	53.23
	Nothing Wrong	38.73	42.27
Standardised residuals	Reasons	-0.69	0.69
	Dumbfounded	0.51	-0.51
	Nothing Wrong	0.32	-0.32

Note. * = sig. at $p < .05$; ** = sig. at $p < .001$

Table 8

Study 6 – Observed counts, expected counts, and standardised residuals for each response to the critical slide depending on cognitive load (Jennifer)

		Cognitive Load	Control
Observed count	Reasons	142	173
	Dumbfounded	67	30
	Nothing Wrong	9	11
Expected count	Reasons	158.96	156.04
	Dumbfounded	48.95	48.05
	Nothing Wrong	10.09	9.91
Standardised residuals	Reasons	-3.67**	3.67**
	Dumbfounded	4.16**	-4.16**
	Nothing Wrong	-0.5	0.5

Note. * = sig. at $p < .05$; ** = sig. at $p < .001$

Table 9

Study 6 – Observed counts, expected counts, and standardised residuals for each response to the critical slide depending on cognitive load (Trolley)

		Cognitive Load	Control
Observed count	Reasons	97	135
	Dumbfounded	72	55
	Nothing Wrong	39	26
Expected count	Reasons	113.81	118.19
	Dumbfounded	62.3	64.7
	Nothing Wrong	31.89	33.11
Standardised residuals	Reasons	-3.28*	3.28*
	Dumbfounded	2.06*	-2.06*
	Nothing Wrong	1.92	-1.92

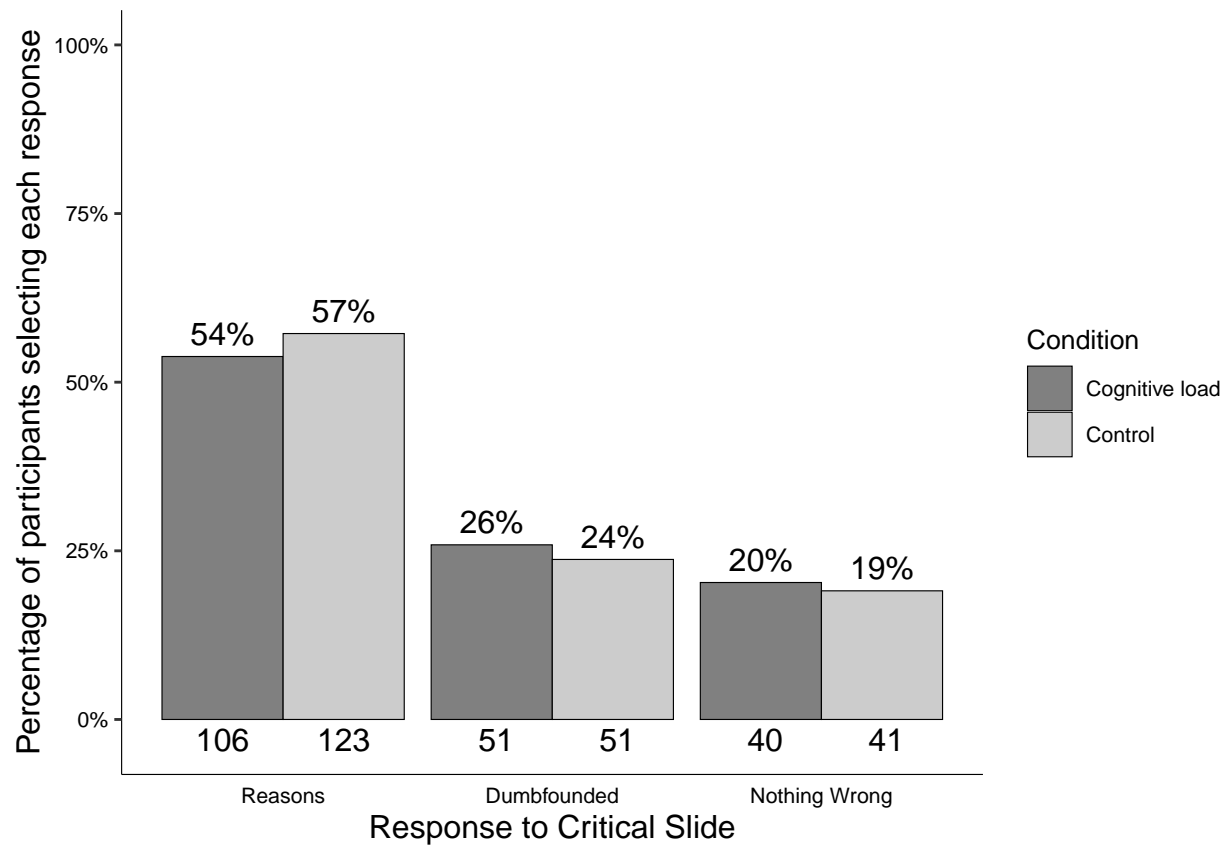
Note. * = sig. at $p < .05$; ** = sig. at $p < .001$

Table 10

Study 6 – Observed counts, expected counts, and standardised residuals for each response to the critical slide depending on cognitive load (Heinz)

		Cognitive Load	Control
Observed count	Reasons	113	143
	Dumbfounded	55	36
	Nothing Wrong	35	36
Expected count	Reasons	124.33	131.67
	Dumbfounded	44.19	46.81
	Nothing Wrong	34.48	36.52
Standardised residuals	Reasons	-2.27*	2.27*
	Dumbfounded	2.56*	-2.56*
	Nothing Wrong	0.14	-0.14

Note. * = sig. at $p < .05$; ** = sig. at $p < .001$

**Figure 2**

Study 6: Responses to critical slide depending on cognitive load (Julie and Mark)

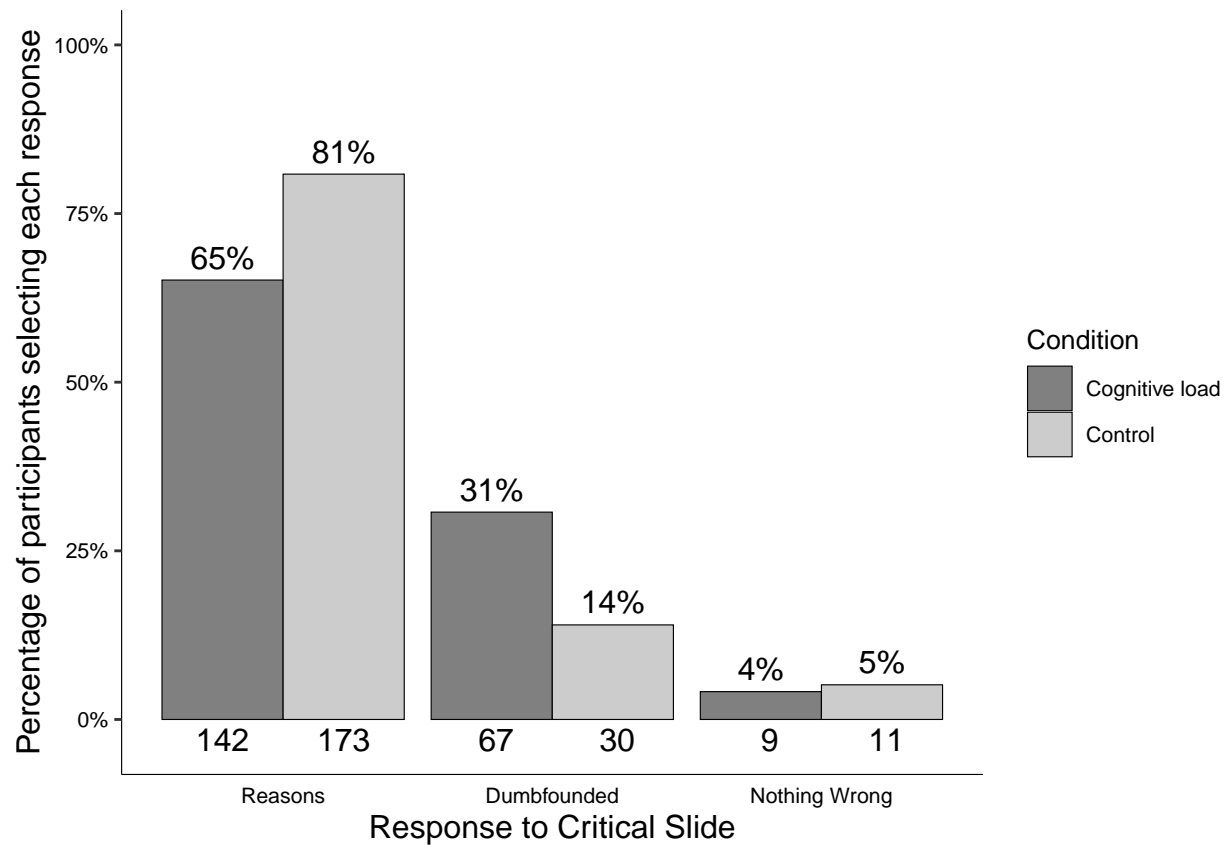


Figure 3

Study 6: Responses to critical slide depending on cognitive load (Jennifer)

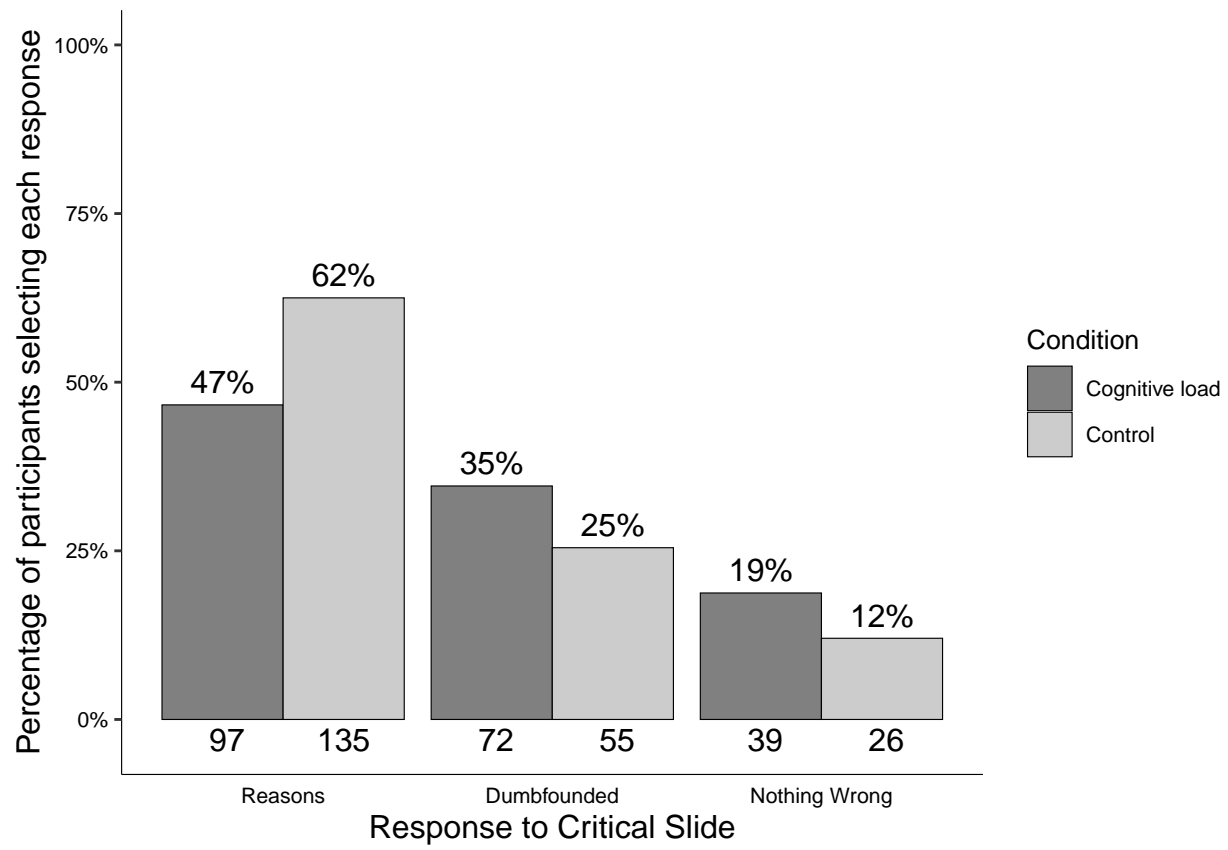


Figure 4

Study 6: Responses to critical slide depending on cognitive load (Trolley)

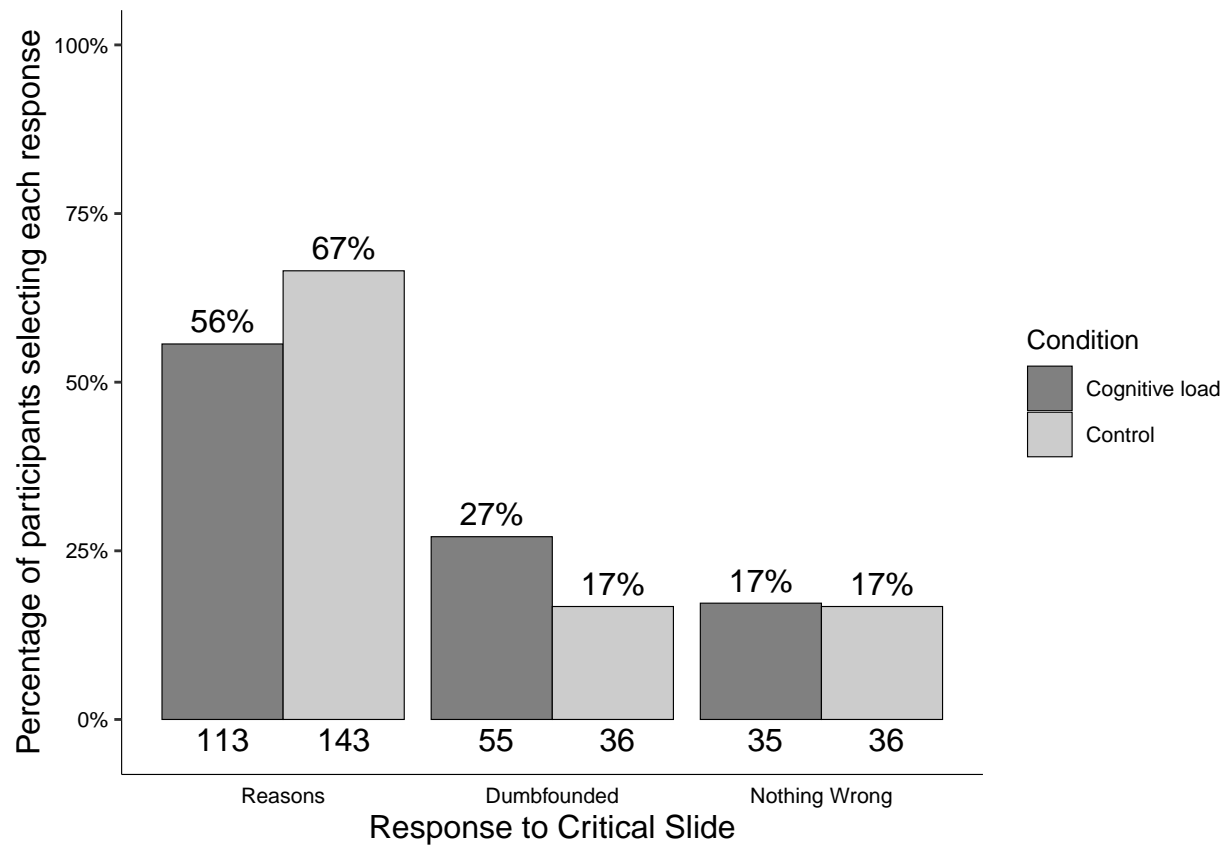


Figure 5

Study 6: Responses to critical slide depending on cognitive load (Heinz)