Understanding Moral Dumbfounding: Cognitive Load Increases the Liklihood of Moral Dumbfounding

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Blinded1, Blinded2, Blinded1, & Blinded1

1 Blinded

2 Blinded

Author note

All procedures performed in studies involving human participants were approved by institutional research ethics committee and conducted in accordance with the Code of Professional Ethics of the Psychological Society of Ireland, and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards. Informed consent was obtained from all individual participants included in the study. The authors declare that there are no potential conflicts of interest with respect to the research, authorship, and/or publication of this article. All authors consented to the submission of this manuscript.

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Abstract

Six studies etc.

*Keywords:* keywords

*Word count:* TBC

Understanding Moral Dumbfounding: Cognitive Load Increases the Liklihood of Moral Dumbfounding

# Combined Analyses

## [1] "/home/cillian/Dropbox/College/research/Research\_general/cog\_load/moral\_dumbfounding\_and\_cognitive\_load/manuscript\_prep\_WORD"

## cog\_load control  
## It's wrong and I can provide a valid reason. 83 103  
## It's wrong but I can't think of a reason. 33 22  
## There is nothing wrong. 49 32  
## It's wrong and I can provide a valid reason. 75 103  
## It's wrong but I can't think of a reason. 32 22  
## There is nothing wrong. 49 32

## Study Response N percent N percent  
## [1,] "Study 1\*" "Reasons" "12" "36%" "21" "64%"   
## [2,] " " "Dumbfounded" "6" "18%" "7" "21%"   
## [3,] " " "Nothing wrong" "15" "45%" "5" "15%"   
## [4,] "Study 2" "Reasons" "25" "49%" "25" "51%"   
## [5,] " " "Dumbfounded" "15" "29%" "11" "22%"   
## [6,] " " "Nothing wrong" "11" "22%" "13" "27%"   
## [7,] "Study 3\*" "Reasons" "54" "53%" "41" "67%"   
## [8,] " " "Dumbfounded" "27" "26%" "5" "8%"   
## [9,] " " "Nothing wrong" "21" "21%" "15" "25%"   
## [10,] "Study 4" "Reasons" "35" "55%" "41" "65%"   
## [11,] " " "Dumbfounded" "10" "16%" "10" "16%"   
## [12,] " " "Nothing wrong" "19" "30%" "12" "19%"   
## [13,] "Study 5" "Reasons" "51" "52%" "68" "64%"   
## [14,] " " "Dumbfounded" "25" "26%" "20" "19%"   
## [15,] " " "Nothing wrong" "22" "22%" "18" "17%"   
## [16,] "Study 6" "Reasons" "458" "55%" "574" "67%"   
## [17,] " " "Dumbfounded" "245" "30%" "172" "20%"   
## [18,] " " "Nothing wrong" "123" "15%" "114" "13%"   
## [19,] "All Studies\*" "Reasons" "635" "54%" "770" "66%"   
## [20,] " " "Dumbfounded" "328" "28%" "225" "19%"   
## [21,] " " "Nothing wrong" "211" "18%" "177" "15%"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated

## Study Response N percent N percent  
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## [2,] " " "Dumbfounded" "6" "18%" "7" "21%"   
## [3,] " " "Nothing wrong" "15" "45%" "5" "15%"   
## [4,] "Study 2 (engaged)\*" "Reasons" "23" "41%" "27" "61%"   
## [5,] " " "Dumbfounded" "20" "36%" "6" "14%"   
## [6,] " " "Nothing wrong" "13" "23%" "11" "25%"   
## [7,] "Study 3 (engaged)\*\*" "Reasons" "36" "53%" "41" "67%"   
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## [14,] " " "Dumbfounded" "25" "26%" "20" "19%"   
## [15,] " " "Nothing wrong" "22" "22%" "18" "17%"   
## [16,] "Study 6" "Reasons" "458" "55%" "574" "67%"   
## [17,] " " "Dumbfounded" "245" "30%" "172" "20%"   
## [18,] " " "Nothing wrong" "123" "15%" "114" "13%"   
## [19,] "All studies (engaged)\*\*" "Reasons" "615" "54%" "772" "66%"   
## [20,] " " "Dumbfounded" "323" "28%" "220" "19%"   
## [21,] " " "Nothing wrong" "207" "18%" "175" "15%"

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## invalid factor level, NA generated  
  
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## invalid factor level, NA generated

##   
## Pearson's Chi-squared test  
##   
## data: table(df3$InCS, df3$condition)  
## X-squared = 39.784, df = 2, p-value = 2.296e-09

## [1] 2312

The combined results for Studies 1-6 are displayed in Figures 1 and  2. When engagement with the memory task was accounted for (*N* = 2312; 1145 experimental, 1167 control), a significant association between cognitive load and responses to the critical slide was found, 2(2, *N* = 2312) = 39.78, *p* < .001, *V* = 0.13, the observed power was 1.00. The observed counts, expected counts, and standardised residuals are displayed in Table 1.

## chisq = 52.36691 with df = 12 p = 5.337197e-07

## sumz = 5.373432 p = 3.862593e-08

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##   
## Call:  
## mlogit(formula = InCS ~ 1 | condition + study, data = df3a, reflevel = "It's wrong and I can provide a valid reason.",   
## method = "nr")  
##   
## Frequencies of alternatives:choice  
## It's wrong and I can provide a valid reason.   
## 0.59991   
## It's wrong but I can't think of a reason.   
## 0.23486   
## There is nothing wrong.   
## 0.16522   
##   
## nr method  
## 4 iterations, 0h:0m:0s   
## g'(-H)^-1g = 2.32E-07   
## gradient close to zero   
##   
## Coefficients :  
## Estimate Std. Error  
## (Intercept):It's wrong but I can't think of a reason. -0.635770 0.332882  
## (Intercept):There is nothing wrong. -0.304378 0.290227  
## conditioncontrol:It's wrong but I can't think of a reason. -0.612734 0.102946  
## conditioncontrol:There is nothing wrong. -0.384251 0.116790  
## studystudy\_2:It's wrong but I can't think of a reason. 0.242857 0.409936  
## studystudy\_2:There is nothing wrong. -0.255260 0.378099  
## studystudy\_3:It's wrong but I can't think of a reason. -0.344473 0.409660  
## studystudy\_3:There is nothing wrong. -0.456566 0.357077  
## studystudy\_4:It's wrong but I can't think of a reason. -0.413027 0.415382  
## studystudy\_4:There is nothing wrong. -0.402025 0.355785  
## studystudy\_5:It's wrong but I can't think of a reason. -0.032891 0.373814  
## studystudy\_5:There is nothing wrong. -0.584425 0.338309  
## studystudy\_6:It's wrong but I can't think of a reason. 0.026737 0.334777  
## studystudy\_6:There is nothing wrong. -0.969570 0.293394  
## z-value Pr(>|z|)  
## (Intercept):It's wrong but I can't think of a reason. -1.9099 0.0561462  
## (Intercept):There is nothing wrong. -1.0488 0.2942889  
## conditioncontrol:It's wrong but I can't think of a reason. -5.9520 2.649e-09  
## conditioncontrol:There is nothing wrong. -3.2901 0.0010015  
## studystudy\_2:It's wrong but I can't think of a reason. 0.5924 0.5535640  
## studystudy\_2:There is nothing wrong. -0.6751 0.4996038  
## studystudy\_3:It's wrong but I can't think of a reason. -0.8409 0.4004172  
## studystudy\_3:There is nothing wrong. -1.2786 0.2010301  
## studystudy\_4:It's wrong but I can't think of a reason. -0.9943 0.3200614  
## studystudy\_4:There is nothing wrong. -1.1300 0.2584911  
## studystudy\_5:It's wrong but I can't think of a reason. -0.0880 0.9298871  
## studystudy\_5:There is nothing wrong. -1.7275 0.0840800  
## studystudy\_6:It's wrong but I can't think of a reason. 0.0799 0.9363440  
## studystudy\_6:There is nothing wrong. -3.3047 0.0009509  
##   
## (Intercept):It's wrong but I can't think of a reason. .   
## (Intercept):There is nothing wrong.   
## conditioncontrol:It's wrong but I can't think of a reason. \*\*\*  
## conditioncontrol:There is nothing wrong. \*\*   
## studystudy\_2:It's wrong but I can't think of a reason.   
## studystudy\_2:There is nothing wrong.   
## studystudy\_3:It's wrong but I can't think of a reason.   
## studystudy\_3:There is nothing wrong.   
## studystudy\_4:It's wrong but I can't think of a reason.   
## studystudy\_4:There is nothing wrong.   
## studystudy\_5:It's wrong but I can't think of a reason.   
## studystudy\_5:There is nothing wrong. .   
## studystudy\_6:It's wrong but I can't think of a reason.   
## studystudy\_6:There is nothing wrong. \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Log-Likelihood: -2145.6  
## McFadden R^2: 0.017213   
## Likelihood ratio test : chisq = 75.159 (p.value = 3.4281e-11)

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## [1] "It's wrong and I can provide a valid reason."  
## [2] "It's wrong but I can't think of a reason."   
## [3] "There is nothing wrong."   
## [4] "It's wrong and I can provide a valid reason."  
## [5] "It's wrong but I can't think of a reason."   
## [6] "There is nothing wrong."   
## [7] "It's wrong and I can provide a valid reason."  
## [8] "It's wrong but I can't think of a reason."   
## [9] "There is nothing wrong."

## [1] -6.1\*\*  
## [1] 5.31\*\*  
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## [1] "6.1\*\*"  
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## [1] 6.1\*\*  
## [1] -5.31\*\*  
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##   
## cog\_load control  
## It's wrong and I can provide a valid reason. 686.9010 700.0990  
## It's wrong but I can't think of a reason. 268.9165 274.0835  
## There is nothing wrong. 189.1825 192.8175

## [1] -6.104767

## cog\_load control  
## It's wrong and I can provide a valid reason. 615.00 772.00  
## It's wrong but I can't think of a reason. 323.00 220.00  
## There is nothing wrong. 207.00 175.00  
## It's wrong and I can provide a valid reason. 686.90 700.10  
## It's wrong but I can't think of a reason. 268.92 274.08  
## There is nothing wrong. 189.18 192.82

Table 1:

*Studies 1-6 – Observed counts, expected counts, and standardised residuals for each response depending on cognitive load*

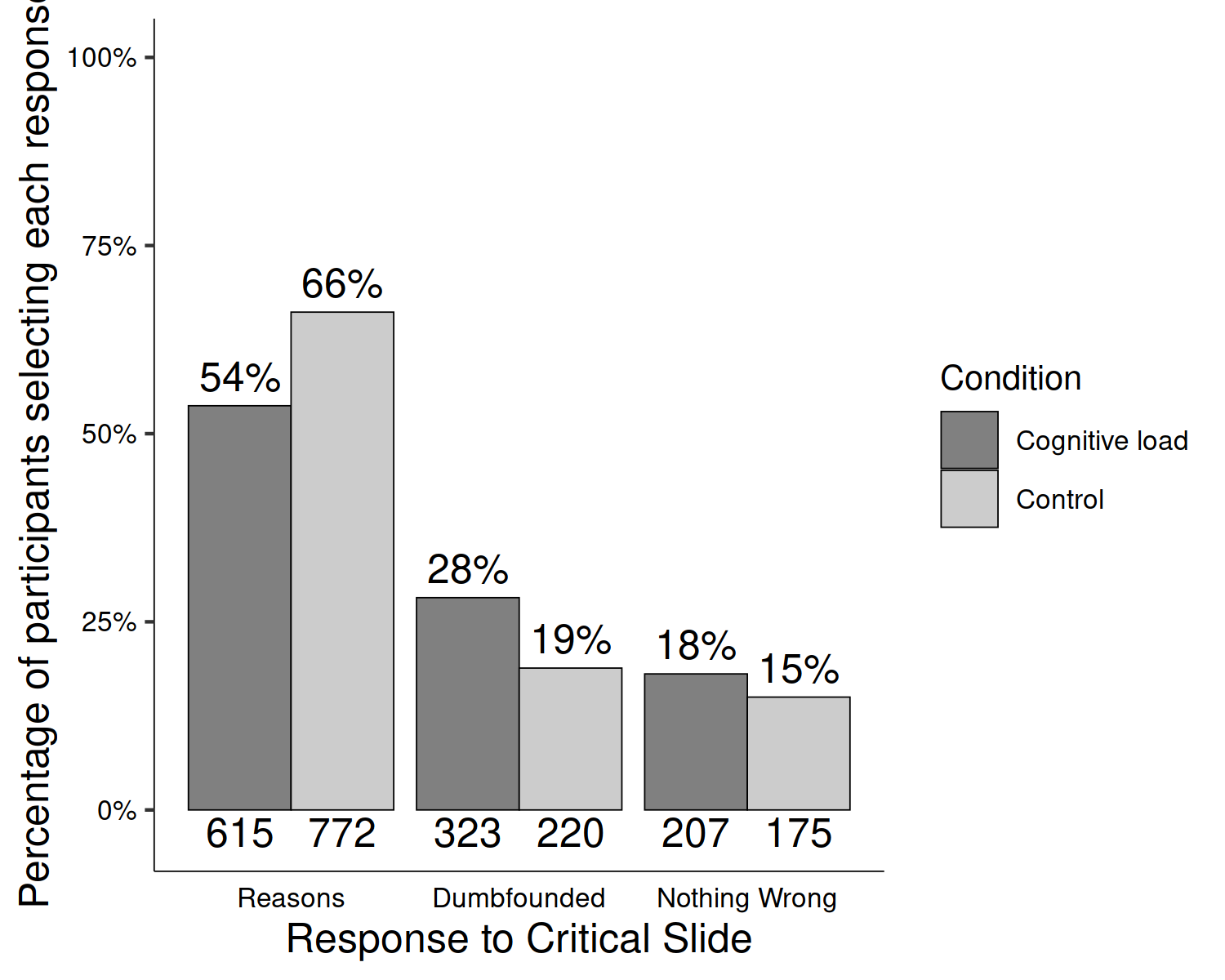
|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Cognitive Load | Control |
| Observed count | Reasons | 615 | 772 |
|  | Dumbfounded | 323 | 220 |
|  | Nothing Wrong | 207 | 175 |
| Expected count | Reasons | 686.9 | 700.1 |
|  | Dumbfounded | 268.92 | 274.08 |
|  | Nothing Wrong | 189.18 | 192.82 |
| Standardised residuals | Reasons | -6.1\*\* | 6.1\*\* |
|  | Dumbfounded | 5.31\*\* | -5.31\*\* |
|  | Nothing Wrong | 2\* | -2\* |

*Note.* \* = sig. at < .05; \*\* = sig. at < .001

A mini meta-analysis was conducted and found that cognitive load significantly influenced responding across all studies 2(12) = 52.37, *p* < .001 (Fisher’s method); or when weighting for sample size, *z* = 5.373, *p* < .001 (Stouffer’s Z-score method).

##   
## cog\_load control   
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## cog\_load control   
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*Figure* *1.*  Studies 1-6: Responses to critical slide for the cognitive load groups (*N* = 1,145) and the control groups (*N* = 1,167) controlling for engagement

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated

## [,1] [,2] [,3] [,4]  
## It's wrong and I can provide a valid reason. 12 0.3636364 21 0.63636364  
## It's wrong but I can't think of a reason. 6 0.1818182 7 0.21212121  
## There is nothing wrong. 15 0.4545455 5 0.15151515  
## It's wrong and I can provide a valid reason. 23 0.4107143 27 0.61363636  
## It's wrong but I can't think of a reason. 20 0.3571429 6 0.13636364  
## There is nothing wrong. 13 0.2321429 11 0.25000000  
## It's wrong and I can provide a valid reason. 36 0.5294118 41 0.67213115  
## It's wrong but I can't think of a reason. 17 0.2500000 5 0.08196721  
## There is nothing wrong. 15 0.2205882 15 0.24590164  
## It's wrong and I can provide a valid reason. 35 0.5468750 41 0.65079365  
## It's wrong but I can't think of a reason. 10 0.1562500 10 0.15873016  
## There is nothing wrong. 19 0.2968750 12 0.19047619  
## It's wrong and I can provide a valid reason. 51 0.5204082 68 0.64150943  
## It's wrong but I can't think of a reason. 25 0.2551020 20 0.18867925  
## There is nothing wrong. 22 0.2244898 18 0.16981132  
## It's wrong and I can provide a valid reason. 458 0.5544794 574 0.66744186  
## It's wrong but I can't think of a reason. 245 0.2966102 172 0.20000000  
## There is nothing wrong. 123 0.1489104 114 0.13255814  
## It's wrong and I can provide a valid reason. 615 0.5371179 772 0.66152528  
## It's wrong but I can't think of a reason. 323 0.2820961 220 0.18851757  
## There is nothing wrong. 207 0.1807860 175 0.14995716

## Study Response N percent N   
## [1,] "1Study 1" "Reasons" "12" "0.363636363636364" "21"   
## [2,] "1Study 1" "Dumbfounded" "6" "0.181818181818182" "7"   
## [3,] "1Study 1" "Nothing wrong" "15" "0.454545454545455" "5"   
## [4,] "2Study 2" "Reasons" "23" "0.410714285714286" "27"   
## [5,] "2Study 2" "Dumbfounded" "20" "0.357142857142857" "6"   
## [6,] "2Study 2" "Nothing wrong" "13" "0.232142857142857" "11"   
## [7,] "3Study 3" "Reasons" "36" "0.529411764705882" "41"   
## [8,] "3Study 3" "Dumbfounded" "17" "0.25" "5"   
## [9,] "3Study 3" "Nothing wrong" "15" "0.220588235294118" "15"   
## [10,] "4Study 4" "Reasons" "35" "0.546875" "41"   
## [11,] "4Study 4" "Dumbfounded" "10" "0.15625" "10"   
## [12,] "4Study 4" "Nothing wrong" "19" "0.296875" "12"   
## [13,] "5Study 5" "Reasons" "51" "0.520408163265306" "68"   
## [14,] "5Study 5" "Dumbfounded" "25" "0.255102040816327" "20"   
## [15,] "5Study 5" "Nothing wrong" "22" "0.224489795918367" "18"   
## [16,] "6Study 6" "Reasons" "458" "0.554479418886199" "574"  
## [17,] "6Study 6" "Dumbfounded" "245" "0.296610169491525" "172"  
## [18,] "6Study 6" "Nothing wrong" "123" "0.148910411622276" "114"  
## [19,] "7All studies engaged 1" "Reasons" "615" "0.537117903930131" "772"  
## [20,] "7All studies engaged 1" "Dumbfounded" "323" "0.282096069868996" "220"  
## [21,] "7All studies engaged 1" "Nothing wrong" "207" "0.180786026200873" "175"  
## percent   
## [1,] "0.636363636363636"   
## [2,] "0.212121212121212"   
## [3,] "0.151515151515152"   
## [4,] "0.613636363636364"   
## [5,] "0.136363636363636"   
## [6,] "0.25"   
## [7,] "0.672131147540984"   
## [8,] "0.0819672131147541"  
## [9,] "0.245901639344262"   
## [10,] "0.650793650793651"   
## [11,] "0.158730158730159"   
## [12,] "0.19047619047619"   
## [13,] "0.641509433962264"   
## [14,] "0.188679245283019"   
## [15,] "0.169811320754717"   
## [16,] "0.667441860465116"   
## [17,] "0.2"   
## [18,] "0.132558139534884"   
## [19,] "0.661525278491859"   
## [20,] "0.188517566409597"   
## [21,] "0.149957155098543"

## $N  
## [1] "12" "23" "36" "35" "51" "458" "615"  
##   
## $N  
## [1] "21" "27" "41" "41" "68" "574" "772"

## [1] "cog\_load" "cog\_load" "cog\_load" "cog\_load" "cog\_load" "cog\_load"  
## [7] "cog\_load" "control" "control" "control" "control" "control"   
## [13] "control" "control"

## Study Response N percent condition  
## 1 1Study 1 Reasons 12 0.3636364 cog\_load  
## 4 2Study 2 Reasons 23 0.4107143 cog\_load  
## 7 3Study 3 Reasons 36 0.5294118 cog\_load  
## 10 4Study 4 Reasons 35 0.5468750 cog\_load  
## 13 5Study 5 Reasons 51 0.5204082 cog\_load  
## 16 6Study 6 Reasons 458 0.5544794 cog\_load  
## 19 7All studies engaged 1 Reasons 615 0.5371179 cog\_load  
## 11 1Study 1 Reasons 21 0.6363636 control  
## 41 2Study 2 Reasons 27 0.6136364 control  
## 71 3Study 3 Reasons 41 0.6721311 control  
## 101 4Study 4 Reasons 41 0.6507937 control  
## 131 5Study 5 Reasons 68 0.6415094 control  
## 161 6Study 6 Reasons 574 0.6674419 control  
## 191 7All studies engaged 1 Reasons 772 0.6615253 control

## [1] 2002

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated

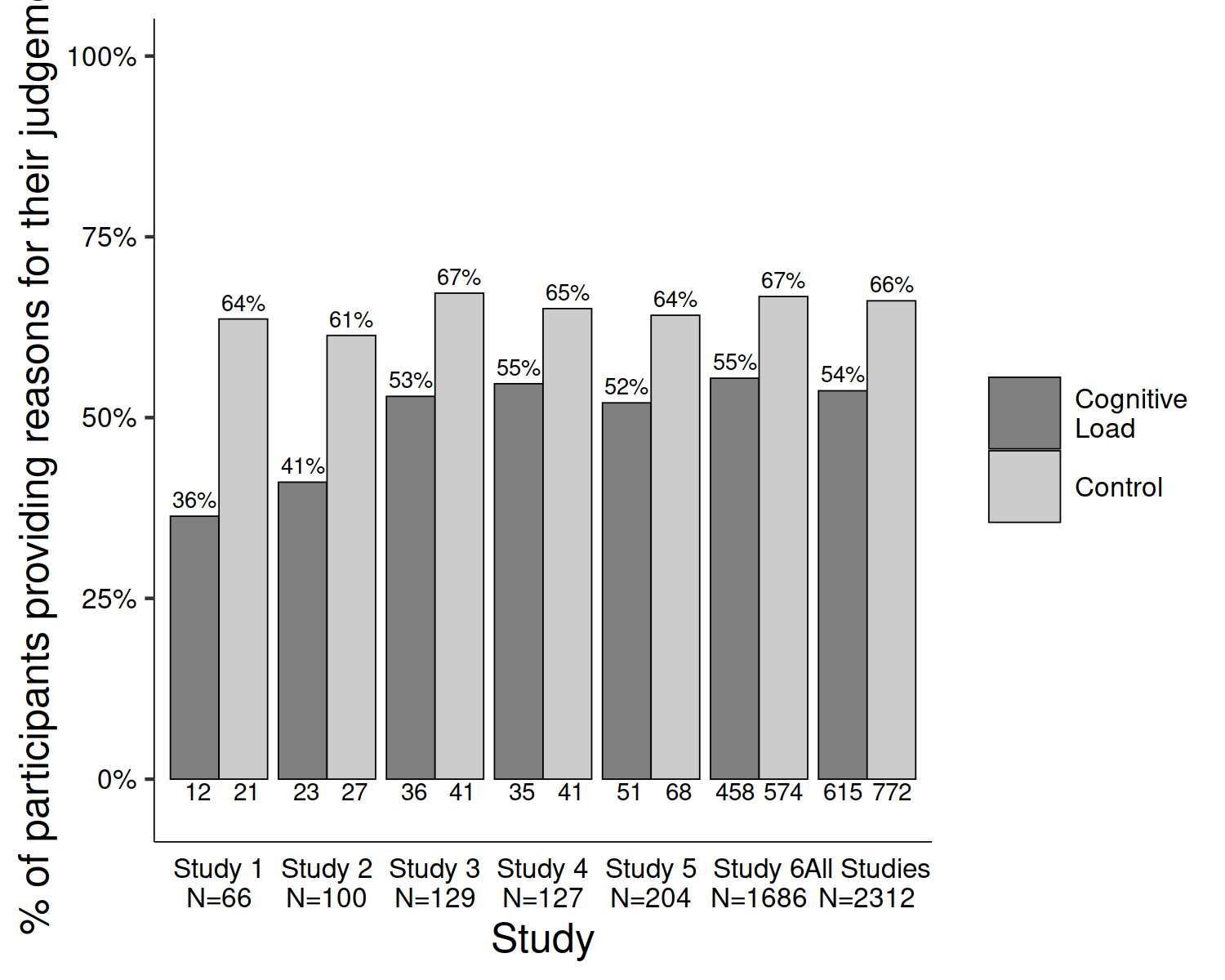
## [,1] [,2] [,3] [,4]  
## It's wrong and I can provide a valid reason. 12 0.3636364 21 0.63636364  
## It's wrong but I can't think of a reason. 6 0.1818182 7 0.21212121  
## There is nothing wrong. 15 0.4545455 5 0.15151515  
## It's wrong and I can provide a valid reason. 23 0.4107143 27 0.61363636  
## It's wrong but I can't think of a reason. 20 0.3571429 6 0.13636364  
## There is nothing wrong. 13 0.2321429 11 0.25000000  
## It's wrong and I can provide a valid reason. 36 0.5294118 41 0.67213115  
## It's wrong but I can't think of a reason. 17 0.2500000 5 0.08196721  
## There is nothing wrong. 15 0.2205882 15 0.24590164  
## It's wrong and I can provide a valid reason. 35 0.5468750 41 0.65079365  
## It's wrong but I can't think of a reason. 10 0.1562500 10 0.15873016  
## There is nothing wrong. 19 0.2968750 12 0.19047619  
## It's wrong and I can provide a valid reason. 51 0.5204082 68 0.64150943  
## It's wrong but I can't think of a reason. 25 0.2551020 20 0.18867925  
## There is nothing wrong. 22 0.2244898 18 0.16981132  
## It's wrong and I can provide a valid reason. 458 0.5544794 574 0.66744186  
## It's wrong but I can't think of a reason. 245 0.2966102 172 0.20000000  
## There is nothing wrong. 123 0.1489104 114 0.13255814  
## It's wrong and I can provide a valid reason. 615 0.5371179 772 0.66152528  
## It's wrong but I can't think of a reason. 323 0.2820961 220 0.18851757  
## There is nothing wrong. 207 0.1807860 175 0.14995716  
## It's wrong and I can provide a valid reason. 607 0.5343310 772 0.66152528  
## It's wrong but I can't think of a reason. 322 0.2834507 220 0.18851757  
## There is nothing wrong. 207 0.1822183 175 0.14995716

## Study Response N percent N   
## [1,] "1Study 1" "Nothing wrong" "12" "0.363636363636364" "21"   
## [2,] "1Study 1" "Dumbfounded" "6" "0.181818181818182" "7"   
## [3,] "1Study 1" "Reasons" "15" "0.454545454545455" "5"   
## [4,] "2Study 2" "Nothing wrong" "23" "0.410714285714286" "27"   
## [5,] "2Study 2" "Dumbfounded" "20" "0.357142857142857" "6"   
## [6,] "2Study 2" "Reasons" "13" "0.232142857142857" "11"   
## [7,] "3Study 3" "Nothing wrong" "36" "0.529411764705882" "41"   
## [8,] "3Study 3" "Dumbfounded" "17" "0.25" "5"   
## [9,] "3Study 3" "Reasons" "15" "0.220588235294118" "15"   
## [10,] "4Study 4" "Nothing wrong" "35" "0.546875" "41"   
## [11,] "4Study 4" "Dumbfounded" "10" "0.15625" "10"   
## [12,] "4Study 4" "Reasons" "19" "0.296875" "12"   
## [13,] "5Study 5" "Nothing wrong" "51" "0.520408163265306" "68"   
## [14,] "5Study 5" "Dumbfounded" "25" "0.255102040816327" "20"   
## [15,] "5Study 5" "Reasons" "22" "0.224489795918367" "18"   
## [16,] "6Study 6" "Nothing wrong" "458" "0.554479418886199" "574"  
## [17,] "6Study 6" "Dumbfounded" "245" "0.296610169491525" "172"  
## [18,] "6Study 6" "Reasons" "123" "0.148910411622276" "114"  
## [19,] "7All studies engaged 1" "Nothing wrong" "615" "0.537117903930131" "772"  
## [20,] "7All studies engaged 1" "Dumbfounded" "323" "0.282096069868996" "220"  
## [21,] "7All studies engaged 1" "Reasons" "207" "0.180786026200873" "175"  
## [22,] "8All studies engaged 2" "Nothing wrong" "607" "0.534330985915493" "772"  
## [23,] "8All studies engaged 2" "Dumbfounded" "322" "0.283450704225352" "220"  
## [24,] "8All studies engaged 2" "Reasons" "207" "0.182218309859155" "175"  
## percent   
## [1,] "0.636363636363636"   
## [2,] "0.212121212121212"   
## [3,] "0.151515151515152"   
## [4,] "0.613636363636364"   
## [5,] "0.136363636363636"   
## [6,] "0.25"   
## [7,] "0.672131147540984"   
## [8,] "0.0819672131147541"  
## [9,] "0.245901639344262"   
## [10,] "0.650793650793651"   
## [11,] "0.158730158730159"   
## [12,] "0.19047619047619"   
## [13,] "0.641509433962264"   
## [14,] "0.188679245283019"   
## [15,] "0.169811320754717"   
## [16,] "0.667441860465116"   
## [17,] "0.2"   
## [18,] "0.132558139534884"   
## [19,] "0.661525278491859"   
## [20,] "0.188517566409597"   
## [21,] "0.149957155098543"   
## [22,] "0.661525278491859"   
## [23,] "0.188517566409597"   
## [24,] "0.149957155098543"

## $N  
## [1] "6" "20" "17" "10" "25" "245" "323" "322"  
##   
## $N  
## [1] "7" "6" "5" "10" "20" "172" "220" "220"

## [1] "cog\_load" "cog\_load" "cog\_load" "cog\_load" "cog\_load" "cog\_load"  
## [7] "cog\_load" "control" "control" "control" "control" "control"   
## [13] "control" "control"

## Study Response N percent condition  
## 2 1Study 1 Dumbfounded 6 0.18181818 cog\_load  
## 5 2Study 2 Dumbfounded 20 0.35714286 cog\_load  
## 8 3Study 3 Dumbfounded 17 0.25000000 cog\_load  
## 11 4Study 4 Dumbfounded 10 0.15625000 cog\_load  
## 14 5Study 5 Dumbfounded 25 0.25510204 cog\_load  
## 17 6Study 6 Dumbfounded 245 0.29661017 cog\_load  
## 20 7All studies engaged 1 Dumbfounded 323 0.28209607 cog\_load  
## 23 8All studies engaged 2 Dumbfounded 322 0.28345070 cog\_load  
## 21 1Study 1 Dumbfounded 7 0.21212121 control  
## 51 2Study 2 Dumbfounded 6 0.13636364 control  
## 81 3Study 3 Dumbfounded 5 0.08196721 control  
## 111 4Study 4 Dumbfounded 10 0.15873016 control  
## 141 5Study 5 Dumbfounded 20 0.18867925 control  
## 171 6Study 6 Dumbfounded 172 0.20000000 control  
## 201 7All studies engaged 1 Dumbfounded 220 0.18851757 control  
## 231 8All studies engaged 2 Dumbfounded 220 0.18851757 control



*Figure* *2.*  Rates of declaring reasons and cognitive load across each study

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = c(0, 1, 0, 0, 1, 1, 1, 0, 0, :  
## invalid factor level, NA generated

## df   
## 2

## 'log Lik.' 12.15313 (df=4)

## 'log Lik.' 0.002296056 (df=4)

## NFC:It's wrong but I can't think of a reason.   
## -0.2378214

## NFC:There is nothing wrong.   
## 1.486812e-05

## # weights: 9 (4 variable)  
## initial value 718.492437   
## iter 10 value 638.984294  
## iter 10 value 638.984294  
## final value 638.984294   
## converged

## Warning in PseudoR2(multinom(InCS ~ NFC, df3), "all"): Could not find model or  
## data element of multinom object for evaluating PseudoR2 null model. Will fit  
## null model with new evaluation of 'df3'. Ensure object has not changed since  
## initial call, or try running multinom with 'model = TRUE'

## CoxSnell   
## 0.01841117

## Nagelkerke   
## 0.0213856

##   
## Call:  
## mlogit(formula = InCS ~ 1 | NFC, data = df3a, reflevel = "It's wrong and I can provide a valid reason.",   
## method = "nr")  
##   
## Frequencies of alternatives:choice  
## It's wrong and I can provide a valid reason.   
## 0.56422   
## It's wrong but I can't think of a reason.   
## 0.20642   
## There is nothing wrong.   
## 0.22936   
##   
## nr method  
## 4 iterations, 0h:0m:0s   
## g'(-H)^-1g = 0.00426   
## successive function values within tolerance limits   
##   
## Coefficients :  
## Estimate Std. Error  
## (Intercept):It's wrong but I can't think of a reason. -8.9657e-01 1.0490e-01  
## (Intercept):There is nothing wrong. -9.0016e-01 1.0826e-01  
## NFC:It's wrong but I can't think of a reason. -2.3782e-01 7.1683e-02  
## NFC:There is nothing wrong. 1.4868e-05 6.9811e-02  
## z-value Pr(>|z|)   
## (Intercept):It's wrong but I can't think of a reason. -8.5466 < 2.2e-16 \*\*\*  
## (Intercept):There is nothing wrong. -8.3151 < 2.2e-16 \*\*\*  
## NFC:It's wrong but I can't think of a reason. -3.3177 0.0009076 \*\*\*  
## NFC:There is nothing wrong. 0.0002 0.9998301   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Log-Likelihood: -638.98  
## McFadden R^2: 0.0094201   
## Likelihood ratio test : chisq = 12.153 (p.value = 0.0022961)

##   
## Call:  
## mlogit(formula = InCS ~ 1 | NFC, data = df3a, reflevel = "It's wrong and I can provide a valid reason.",   
## method = "nr")  
##   
## Frequencies of alternatives:choice  
## It's wrong and I can provide a valid reason.   
## 0.56422   
## It's wrong but I can't think of a reason.   
## 0.20642   
## There is nothing wrong.   
## 0.22936   
##   
## nr method  
## 4 iterations, 0h:0m:0s   
## g'(-H)^-1g = 0.00426   
## successive function values within tolerance limits   
##   
## Coefficients :  
## Estimate Std. Error  
## (Intercept):It's wrong but I can't think of a reason. -8.9657e-01 1.0490e-01  
## (Intercept):There is nothing wrong. -9.0016e-01 1.0826e-01  
## NFC:It's wrong but I can't think of a reason. -2.3782e-01 7.1683e-02  
## NFC:There is nothing wrong. 1.4868e-05 6.9811e-02  
## z-value Pr(>|z|)   
## (Intercept):It's wrong but I can't think of a reason. -8.5466 < 2.2e-16 \*\*\*  
## (Intercept):There is nothing wrong. -8.3151 < 2.2e-16 \*\*\*  
## NFC:It's wrong but I can't think of a reason. -3.3177 0.0009076 \*\*\*  
## NFC:There is nothing wrong. 0.0002 0.9998301   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Log-Likelihood: -638.98  
## McFadden R^2: 0.0094201   
## Likelihood ratio test : chisq = 12.153 (p.value = 0.0022961)

## NFC:It's wrong but I can't think of a reason.   
## -0.2378214

## exp.InCSModel.coefficients.  
## (Intercept):It's wrong but I can't think of a reason. 0.4079680  
## (Intercept):There is nothing wrong. 0.4065036  
## NFC:It's wrong but I can't think of a reason. 0.7883435  
## NFC:There is nothing wrong. 1.0000149

## NFC:It's wrong but I can't think of a reason.   
## 0.7883435

## [1] 0.6850133 0.9072605

## [1] 0.7597573 0.7556197 0.7647708 0.7759668 0.7779854 0.7821524 0.7671233  
## [8] 0.7636234 0.7586951 0.7665280 0.7807443 0.7683285 0.7814460 0.7613858  
## [15] 0.7956631 0.8036766 0.5967820 0.7930438 0.8036766 0.7705195 0.7438183  
## [22] 0.3916712 0.4227666 0.4213379 0.4171225 0.4185158 0.4555184 0.4361592  
## [29] 0.4521728 0.4330997 0.4213379 0.4377069 0.4440169 0.7677235 0.7786679  
## [36] 0.7917625 0.7630569 0.7551232 0.7562026 0.7751585 0.7886732 0.7463278  
## [43] 0.7310286 0.7797305 0.8118816 0.4116659 0.4392665 0.4171225 0.4440169  
## [50] 0.4227666 0.4765776 0.5111974 0.4456243 0.4300880 0.4711561 0.4256596  
## [57] 0.4424215 0.4300880 0.4103309 0.3795549 0.4572090 0.4456243 0.4589113  
## [64] 0.5032059 0.4521728 0.4256596 0.8098554 0.7597573 0.7517734 0.7561208  
## [71] 0.7610413 0.7786679 0.7630569 0.7814460 0.7522386 0.4623514 0.4300880  
## [78] 0.4658383 0.7681749 0.7879738 0.7705195 0.4505178 0.4213379 0.5132205  
## [85] 0.7728473 0.8455488 0.7453091 0.5756935 0.7952039 0.6643519 0.7015124  
## [92] 0.7566264 0.8138913 0.7886732 0.7205110 0.7751585 0.7759668 0.8892663  
## [99] 0.7610413 0.3806038 0.4377069 0.4199210 0.5172964 0.4538397 0.4377069  
## [106] 0.4051060 0.3849034 0.4213379 0.4300880 0.5234825 0.4456243 0.4538397  
## [113] 0.4051060 0.4424215 0.4424215 0.4440169 0.4896237 0.7527082 0.7527082  
## [120] 0.8097051 0.7495128 0.7766348 0.7814460 0.7586951 0.7930438 0.7819913  
## [127] 0.4488747 0.4063950 0.4000638 0.5152536 0.7996718 0.7482079 0.4505178  
## [134] 0.4076954 0.4640890 0.5132205 0.7566264 0.7714262 0.7636234 0.7786679  
## [141] 0.8635913 0.7728473 0.8118816 0.8696984 0.8057529 0.7284227 0.5711084  
## [148] 0.8367230 0.8489683 0.4227666 0.4076954 0.4555184 0.3705699 0.3849034  
## [155] 0.4472435 0.4103309 0.3816631 0.5600219 0.3928371 0.3785163 0.3976104  
## [162] 0.4090074 0.3882390 0.4157408 0.4346235 0.4555184 0.7759668 0.7551232  
## [169] 0.7753036 0.8184643 0.7597573 0.7541437 0.7592238 0.7473590 0.7473590  
## [176] 0.7536608 0.8403011 0.4472435 0.4227666 0.7586951 0.7705195 0.8349099  
## [183] 0.7908669 0.4330997 0.4440169 0.8046185 0.7759668 0.8118816 0.8666744  
## [190] 0.7488211 0.7015124 0.6817928 0.3838128 0.4227666 0.3905163 0.4130125  
## [197] 0.4802490 0.4185158 0.4199210 0.3606514 0.4346235 0.4488747 0.3964005  
## [204] 0.4361592 0.5012337 0.4199210 0.3905163 0.4747590 0.7739917 0.7728473  
## [211] 0.8620274 0.7774529 0.7658137 0.7449113 0.7610413 0.8556206 0.7759668  
## [218] 0.7746452 0.7952039 0.3827327 0.3988315 0.4013074 0.3928371 0.8015835  
## [225] 0.7597573 0.7807443 0.7681749 0.7819913 0.7766348 0.3964005 0.4440169  
## [232] 0.7819913 0.8918418 0.8057529 0.8330807 0.7634358 0.8217641 0.7930438  
## [239] 0.3606514 0.4130125 0.4143708 0.4488747 0.4330997 0.4130125 0.4346235  
## [246] 0.4242072 0.3871165 0.3606514 0.5711844 0.4377069 0.4103309 0.4143708  
## [253] 0.3860046 0.4185158 0.3882390 0.5382379 0.4063950 0.5711844 0.3754614  
## [260] 0.3785163 0.3795549 0.4361592 0.3754614 0.4658383 0.4157408 0.4505178  
## [267] 0.8004861 0.7619381 0.7733431 0.7948742 0.7779854 0.7746452 0.7482079  
## [274] 0.7597573 0.7400941 0.7504040 0.7746452 0.8420662 0.4025622 0.4361592  
## [281] 0.4505178 0.3686817 0.7779854 0.6789195 0.7310286 0.4013074 0.3806038  
## [288] 0.3734752 0.7714262 0.7536608 0.7753036 0.7705195 0.7562026 0.3893723  
## [295] 0.3659211 0.3615068 0.4572090 0.3724969 0.4063950 0.4488747 0.4090074  
## [302] 0.4300880 0.4242072 0.3916712 0.4606255 0.4185158 0.4256596 0.4472435  
## [309] 0.4330997 0.4330997 0.4025622 0.5403806 0.5939467 0.3696209 0.3952016  
## [316] 0.4256596 0.4424215 0.3650197 0.4063950 0.3849034 0.4424215 0.4821016  
## [323] 0.4130125 0.4013074 0.5939467 0.4271238 0.7613858 0.7759668 0.7536608  
## [330] 0.7602954 0.7800474 0.7641947 0.7586951 0.7908669 0.4472435 0.7800474  
## [337] 0.7695530 0.7726993 0.7797305 0.7705195 0.7634358 0.4116659 0.4143708  
## [344] 0.6959500 0.8651403 0.4143708 0.4472435 0.3686817 0.4361592 0.5425317  
## [351] 0.3964005 0.3816631 0.3976104 0.5091843 0.5234825 0.4877265 0.3976104  
## [358] 0.5012337 0.3928371 0.4300880 0.4315879 0.4839654 0.3905163 0.3928371  
## [365] 0.7457109 0.7465267 0.7486386 0.7477813 0.7531823 0.7701726 0.7835796  
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## It's wrong and I can provide a valid reason.  
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## 640 0.6071629  
## 641 0.5410887  
## 642 0.5543757  
## 643 0.5961716  
## 644 0.5103763  
## 645 0.5684121  
## 646 0.5494822  
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## 648 0.5511253  
## 649 0.5478272  
## 650 0.5376486  
## 651 0.5511253  
## 652 0.5543757  
## 653 0.5527565  
## 654 0.5478272  
## 655 0.5669003  
## 656 0.5622931  
## 657 0.5410887  
## 658 0.6117610  
## 659 0.5288439  
## 660 0.5376486  
## It's wrong but I can't think of a reason. There is nothing wrong.  
## 1 0.1687646 0.2402427  
## 2 0.1544512 0.2443803  
## 3 0.1861087 0.2352292  
## 4 0.2248415 0.2240332  
## 5 0.2318251 0.2220146  
## 6 0.2462415 0.2178476  
## 7 0.1942471 0.2328767  
## 8 0.1821392 0.2363766  
## 9 0.1650901 0.2413049  
## 10 0.1921875 0.2334720  
## 11 0.2413698 0.2192557  
## 12 0.1984165 0.2316715  
## 13 0.2437974 0.2185540  
## 14 0.1743983 0.2386142  
## 15 0.2929840 0.2043369  
## 16 0.1963234 0.2322765  
## 17 0.4032180 0.1724755  
## 18 0.2069562 0.2292030  
## 19 0.1963234 0.2322765  
## 20 0.2294805 0.2226923  
## 21 0.2561817 0.2149743  
## 22 0.1443794 0.2472918  
## 23 0.1881184 0.2346483  
## 24 0.1861087 0.2352292  
## 25 0.1801793 0.2369431  
## 26 0.1821392 0.2363766  
## 27 0.2341863 0.2213321  
## 28 0.2069562 0.2292030  
## 29 0.2294805 0.2226923  
## 30 0.2026528 0.2304470  
## 31 0.1861087 0.2352292  
## 32 0.2091331 0.2285738  
## 33 0.2180087 0.2260083  
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## 36 0.2794890 0.2082375  
## 37 0.1801793 0.2369431  
## 38 0.1527336 0.2448768  
## 39 0.2437974 0.2185540  
## 40 0.2248415 0.2240332  
## 41 0.2113268 0.2279397  
## 42 0.2536722 0.2156997  
## 43 0.2689714 0.2112775  
## 44 0.2202695 0.2253548  
## 45 0.1881184 0.2346483  
## 46 0.1725041 0.2391618  
## 47 0.2113268 0.2279397  
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## 58 0.1984165 0.2316715  
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## 64 0.3012615 0.2019444  
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## 131 0.3068531 0.2003282  
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## 134 0.1669193 0.2407762  
## 135 0.2462415 0.2178476  
## 136 0.3153476 0.1978729  
## 137 0.1579338 0.2433736  
## 138 0.2091331 0.2285738  
## 139 0.1821392 0.2363766  
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## 141 0.1364087 0.2495960  
## 142 0.2271527 0.2233652  
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## 145 0.1942471 0.2328767  
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## 158 0.3811755 0.1788464  
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## 166 0.2341863 0.2213321  
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## 173 0.1669193 0.2407762  
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## 176 0.1258753 0.2526410  
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## 190 0.1333256 0.2504872  
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## 193 0.3182072 0.1970464  
## 194 0.1333256 0.2504872  
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## 196 0.1427549 0.2477614  
## 197 0.1743983 0.2386142  
## 198 0.2689714 0.2112775  
## 199 0.1821392 0.2363766  
## 200 0.1841157 0.2358053  
## 201 0.1007455 0.2599059  
## 202 0.2047961 0.2298274  
## 203 0.2248415 0.2240332  
## 204 0.1510317 0.2453688  
## 205 0.2069562 0.2292030  
## 206 0.2984876 0.2027461  
## 207 0.1841157 0.2358053  
## 208 0.1427549 0.2477614  
## 209 0.2612494 0.2135096  
## 210 0.2180087 0.2260083  
## 211 0.2271527 0.2233652  
## 212 0.1379726 0.2491439  
## 213 0.2225471 0.2246964  
## 214 0.2341863 0.2213321  
## 215 0.1174082 0.2550887  
## 216 0.2389587 0.2199526  
## 217 0.1443794 0.2472918  
## 218 0.2248415 0.2240332  
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## 220 0.2047961 0.2298274  
## 221 0.1318063 0.2509264  
## 222 0.1544512 0.2443803  
## 223 0.1579338 0.2433736  
## 224 0.1460193 0.2468177  
## 225 0.1984165 0.2316715  
## 226 0.1687646 0.2402427  
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## 230 0.2271527 0.2233652  
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## 243 0.1763089 0.2380619  
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## 250 0.1007455 0.2599059  
## 251 0.3968759 0.1743085  
## 252 0.2091331 0.2285738  
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## 254 0.1763089 0.2380619  
## 255 0.1364087 0.2495960  
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## 277 0.1007455 0.2599059  
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## 279 0.2202695 0.2253548  
## 280 0.1579338 0.2433736  
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## 535 0.2202695 0.2253548  
## 536 0.2663815 0.2120262  
## 537 0.1706263 0.2397046  
## 538 0.2047961 0.2298274  
## 539 0.2135373 0.2273007  
## 540 0.2248415 0.2240332  
## 541 0.1942471 0.2328767  
## 542 0.1687646 0.2402427  
## 543 0.1174082 0.2550887  
## 544 0.2318251 0.2220146  
## 545 0.1579338 0.2433736  
## 546 0.2225471 0.2246964  
## 547 0.3657197 0.1833136  
## 548 0.1861087 0.2352292  
## 549 0.2487020 0.2171363  
## 550 0.1411456 0.2482266  
## 551 0.1921875 0.2334720  
## 552 0.1411456 0.2482266  
## 553 0.1725041 0.2391618  
## 554 0.2389587 0.2199526  
## 555 0.1861087 0.2352292  
## 556 0.1743983 0.2386142  
## 557 0.2180087 0.2260083  
## 558 0.1901446 0.2340626  
## 559 0.2341863 0.2213321  
## 560 0.1821392 0.2363766  
## 561 0.2462415 0.2178476  
## 562 0.2413698 0.2192557  
## 563 0.2225471 0.2246964  
## 564 0.1901446 0.2340626  
## 565 0.2536722 0.2156997  
## 566 0.2026528 0.2304470  
## 567 0.2638074 0.2127702  
## 568 0.2202695 0.2253548  
## 569 0.2202695 0.2253548  
## 570 0.1921875 0.2334720  
## 571 0.1579338 0.2433736  
## 572 0.1821392 0.2363766  
## 573 0.2180087 0.2260083  
## 574 0.2091331 0.2285738  
## 575 0.1743983 0.2386142  
## 576 0.2135373 0.2273007  
## 577 0.2821574 0.2074662  
## 578 0.2741989 0.2097666  
## 579 0.2069562 0.2292030  
## 580 0.1379726 0.2491439  
## 581 0.1763089 0.2380619  
## 582 0.2318251 0.2220146  
## 583 0.2225471 0.2246964  
## 584 0.2180087 0.2260083  
## 585 0.1841157 0.2358053  
## 586 0.1579338 0.2433736  
## 587 0.1288117 0.2517921  
## 588 0.1861087 0.2352292  
## 589 0.2069562 0.2292030  
## 590 0.2005262 0.2310617  
## 591 0.1725041 0.2391618  
## 592 0.1527336 0.2448768  
## 593 0.1596989 0.2428633  
## 594 0.2225471 0.2246964  
## 595 0.1706263 0.2397046  
## 596 0.1881184 0.2346483  
## 597 0.1861087 0.2352292  
## 598 0.2069562 0.2292030  
## 599 0.2341863 0.2213321  
## 600 0.1901446 0.2340626  
## 601 0.1527336 0.2448768  
## 602 0.2318251 0.2220146  
## 603 0.1901446 0.2340626  
## 604 0.2341863 0.2213321  
## 605 0.1921875 0.2334720  
## 606 0.1019488 0.2595580  
## 607 0.2248415 0.2240332  
## 608 0.2389587 0.2199526  
## 609 0.2318251 0.2220146  
## 610 0.1510317 0.2453688  
## 611 0.1921875 0.2334720  
## 612 0.2271527 0.2233652  
## 613 0.2612494 0.2135096  
## 614 0.1841157 0.2358053  
## 615 0.2135373 0.2273007  
## 616 0.2202695 0.2253548  
## 617 0.2689714 0.2112775  
## 618 0.1669193 0.2407762  
## 619 0.2026528 0.2304470  
## 620 0.1841157 0.2358053  
## 621 0.1984165 0.2316715  
## 622 0.2437974 0.2185540  
## 623 0.1984165 0.2316715  
## 624 0.2715773 0.2105243  
## 625 0.2741989 0.2097666  
## 626 0.2437974 0.2185540  
## 627 0.2202695 0.2253548  
## 628 0.1861087 0.2352292  
## 629 0.2005262 0.2310617  
## 630 0.2157646 0.2266569  
## 631 0.1669193 0.2407762  
## 632 0.2561817 0.2149743  
## 633 0.1333256 0.2504872  
## 634 0.2248415 0.2240332  
## 635 0.1801793 0.2369431  
## 636 0.1821392 0.2363766  
## 637 0.2225471 0.2246964  
## 638 0.3297815 0.1937010  
## 639 0.3096704 0.1995139  
## 640 0.1460193 0.2468177  
## 641 0.2389587 0.2199526  
## 642 0.2202695 0.2253548  
## 643 0.1614799 0.2423485  
## 644 0.2821574 0.2074662  
## 645 0.2005262 0.2310617  
## 646 0.2271527 0.2233652  
## 647 0.2202695 0.2253548  
## 648 0.2248415 0.2240332  
## 649 0.2294805 0.2226923  
## 650 0.2437974 0.2185540  
## 651 0.2248415 0.2240332  
## 652 0.2202695 0.2253548  
## 653 0.2225471 0.2246964  
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## 655 0.2026528 0.2304470  
## 656 0.2091331 0.2285738  
## 657 0.2389587 0.2199526  
## 658 0.1395516 0.2486874  
## 659 0.2561817 0.2149743  
## 660 0.2437974 0.2185540

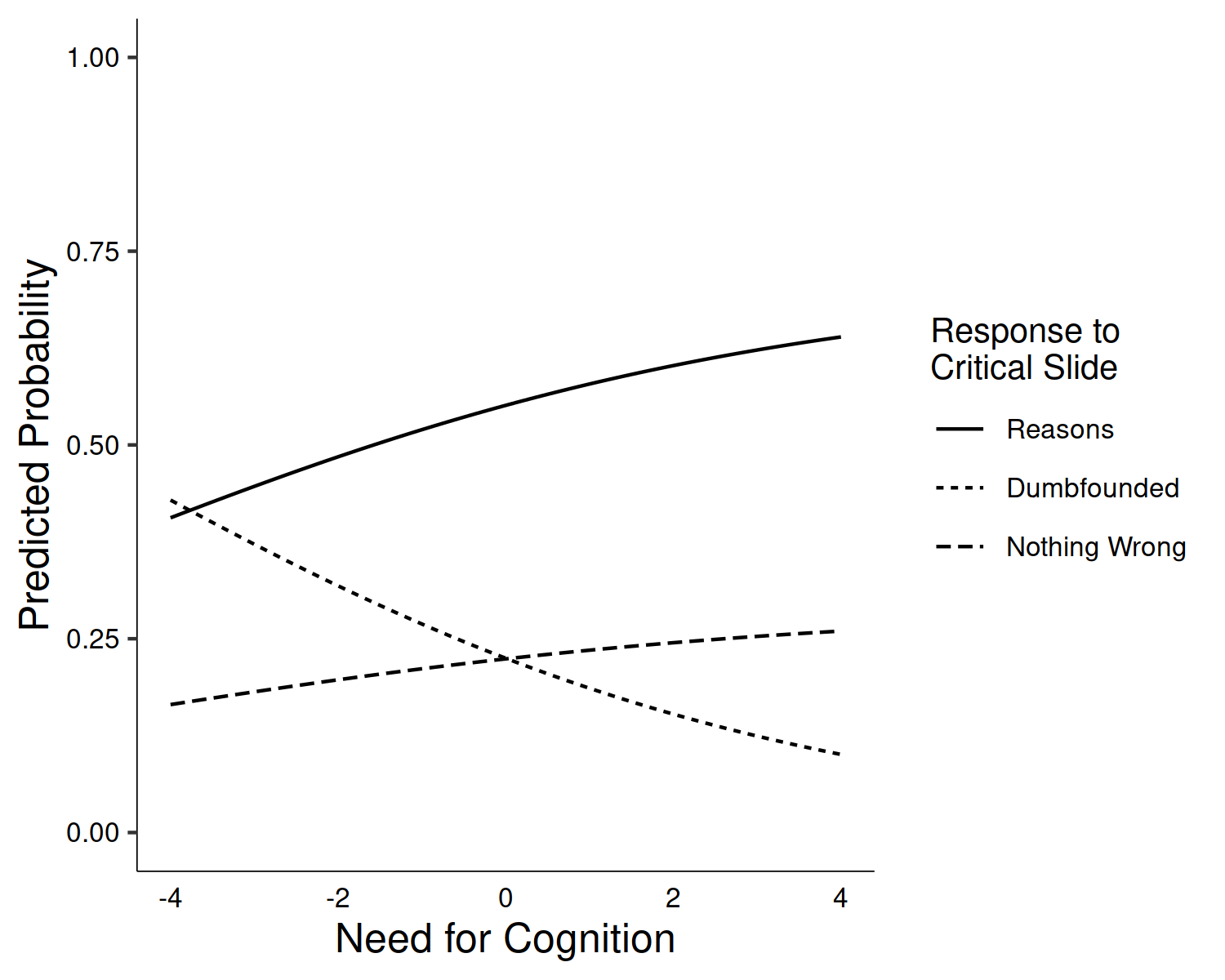
## [1] 0.8873151

## [1] "It's wrong and I can provide a valid reason."  
## [2] "It's wrong but I can't think of a reason."   
## [3] "There is nothing wrong."

## df3$InCS as.numeric(df3$InCS)  
## 1 There is nothing wrong. 3  
## 2 There is nothing wrong. 3  
## 3 There is nothing wrong. 3  
## 4 There is nothing wrong. 3  
## 5 There is nothing wrong. 3  
## 6 There is nothing wrong. 3  
## 7 There is nothing wrong. 3  
## 8 There is nothing wrong. 3  
## 9 There is nothing wrong. 3  
## 10 There is nothing wrong. 3  
## 11 There is nothing wrong. 3  
## 12 There is nothing wrong. 3  
## 13 There is nothing wrong. 3  
## 14 There is nothing wrong. 3  
## 15 There is nothing wrong. 3  
## 16 It's wrong but I can't think of a reason. 2  
## 17 It's wrong but I can't think of a reason. 2  
## 18 It's wrong but I can't think of a reason. 2  
## 19 It's wrong but I can't think of a reason. 2  
## 20 It's wrong but I can't think of a reason. 2  
## 21 It's wrong but I can't think of a reason. 2  
## 22 It's wrong and I can provide a valid reason. 1  
## 23 It's wrong and I can provide a valid reason. 1  
## 24 It's wrong and I can provide a valid reason. 1  
## 25 It's wrong and I can provide a valid reason. 1  
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## 33 It's wrong and I can provide a valid reason. 1  
## 34 There is nothing wrong. 3  
## 35 There is nothing wrong. 3  
## 36 There is nothing wrong. 3  
## 37 There is nothing wrong. 3  
## 38 There is nothing wrong. 3  
## 39 It's wrong but I can't think of a reason. 2  
## 40 It's wrong but I can't think of a reason. 2  
## 41 It's wrong but I can't think of a reason. 2  
## 42 It's wrong but I can't think of a reason. 2  
## 43 It's wrong but I can't think of a reason. 2  
## 44 It's wrong but I can't think of a reason. 2  
## 45 It's wrong but I can't think of a reason. 2  
## 46 It's wrong and I can provide a valid reason. 1  
## 47 It's wrong and I can provide a valid reason. 1  
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## 64 It's wrong and I can provide a valid reason. 1  
## 65 It's wrong and I can provide a valid reason. 1  
## 66 It's wrong and I can provide a valid reason. 1  
## 67 It's wrong but I can't think of a reason. 2  
## 68 There is nothing wrong. 3  
## 69 There is nothing wrong. 3  
## 70 There is nothing wrong. 3  
## 71 It's wrong but I can't think of a reason. 2  
## 72 There is nothing wrong. 3  
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## 76 It's wrong and I can provide a valid reason. 1  
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## 78 It's wrong and I can provide a valid reason. 1  
## 79 It's wrong but I can't think of a reason. 2  
## 80 There is nothing wrong. 3  
## 81 It's wrong but I can't think of a reason. 2  
## 82 It's wrong and I can provide a valid reason. 1  
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## 85 It's wrong but I can't think of a reason. 2  
## 86 It's wrong but I can't think of a reason. 2  
## 87 There is nothing wrong. 3  
## 88 It's wrong and I can provide a valid reason. 1  
## 89 It's wrong but I can't think of a reason. 2  
## 90 It's wrong but I can't think of a reason. 2  
## 91 It's wrong but I can't think of a reason. 2  
## 92 There is nothing wrong. 3  
## 93 It's wrong but I can't think of a reason. 2  
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## 96 It's wrong but I can't think of a reason. 2  
## 97 There is nothing wrong. 3  
## 98 It's wrong but I can't think of a reason. 2  
## 99 It's wrong but I can't think of a reason. 2  
## 100 It's wrong and I can provide a valid reason. 1  
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## 118 There is nothing wrong. 3  
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## 124 There is nothing wrong. 3  
## 125 It's wrong but I can't think of a reason. 2  
## 126 It's wrong but I can't think of a reason. 2  
## 127 It's wrong and I can provide a valid reason. 1  
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## 131 There is nothing wrong. 3  
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## 133 It's wrong and I can provide a valid reason. 1  
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## 136 It's wrong and I can provide a valid reason. 1  
## 137 There is nothing wrong. 3  
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## 141 It's wrong but I can't think of a reason. 2  
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## 186 There is nothing wrong. 3  
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## 209 There is nothing wrong. 3  
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## 220 It's wrong and I can provide a valid reason. 1  
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## 267 There is nothing wrong. 3  
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## 274 There is nothing wrong. 3  
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## 278 It's wrong but I can't think of a reason. 2  
## 279 It's wrong and I can provide a valid reason. 1  
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## 394 There is nothing wrong. 3  
## 395 There is nothing wrong. 3  
## 396 There is nothing wrong. 3  
## 397 There is nothing wrong. 3  
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## 652 It's wrong and I can provide a valid reason. 1  
## 653 It's wrong but I can't think of a reason. 2  
## 654 It's wrong and I can provide a valid reason. 1

## # weights: 9 (4 variable)  
## initial value 718.492437   
## iter 10 value 638.984294  
## iter 10 value 638.984294  
## final value 638.984294   
## converged

A multinomial logistic regression revealed a statistically significant association between Need for Cognition and response to the critical slide, 2(2, *N* = 654) = 12.15, *p* = .002, The observed power was 0.89. Need for Cognition explained between 1.95% (Cox and Snell R square) and 2.62% (Nadelkerke R squared) of the variance in responses to the critical slide. As Need for Cognition increased, participants were significantly more likely to provide reasons than to present as dumbfounded, Wald = 11.01, *p* < .001, odds ratio = 0.79, 95% CI [0.69, 0.91]. As Need for Cognition increased, participants were also significantly more likely to select there is nothing wrong than present as dumbfounded Wald = 0, *p* = 1.000, odds ratio = 1.00, 95% CI [0.87, 1.15]. The relative probabilities of selecting each response depending on Need for Cognition are displayed in Figure 3.



*Figure* *3.*  Studies 1-5: Probability of selecting each response to the critical slide depending on Need for Cognition