## Experiment 2 Output Main Analyses using source("analysis Exp2.R")

```
clear workspace
Loading local-lib.R
-----
Read data of Experiment 2 / Indirect Task: Experiment2_indirectTask.dat
______
Excluding trials with display timing errors:
   Total no. trials: 8881
   Timing error trials: 1
Excluding practice trials:
   Total no. trials: 8880 Practice trials: 371
Excluding too fast/slow responses:
   Total no. trials: 8509
   Too early trials: 5
Too late trials: 22
  -----
Excluding trials with wrong response:
   Total no. trials: 8482
   Total no. circa:
Correct trials: 7680
+mials: 802
Working on prime contrast: 0.3
Working on prime contrast: 0.7
The contrast: 1.4
Working on prime contrast:
Working on prime contrast:
                             2.9
Working on prime contrast:
                             4.9
7.8
Working on prime contrast:
Working on prime contrast:
Working on prime contrast:
                             11.6
Working on prime contrast: 16.4
______
Perform ezANOVA on RTs with congruency and prime contrast
______
...number of participants, indirect task: 20
______
Head of aggregated results per participant and prime contrast,
indirect task:
 part primecontrast conN inconN conRTmean inconRTmean conRTsd inconRTsd RTdiff dprime
      0.3 24 24 459.9040 439.1699 94.82878 78.34571 -20.7341250 -0.4208568

      0.3
      24
      24
      484.1576
      491.1696
      89.00354
      86.59179
      7.0119833
      0.0000000

      0.3
      24
      24
      437.5072
      434.4027
      66.83503
      61.81165
      -3.1044917
      0.0000000

3

    0.3
    24
    24
    463.5938
    462.9019 63.45193
    72.16926 -0.6919833 -0.2092669

    0.3
    24
    24
    509.2421
    476.4389 92.49705
    79.14627 -32.8032667 -0.4208568

          0.3 24 24 375.7336 368.0672 70.24190 79.39396 -7.6664083 0.2092669
  ______
RT-difference betw. congruent and incongruent conditions at 4.9 cd/m<sup>2</sup>:
______
                                      429.21 ms
Mean RTcongruent:
Mean RTincongruent:
                                     441.94 ms
Mean of RTdiff:
                                      12.733 ms
SD of RTdiff:
                                      16.434 ms
SEM of RTdiff: 3.6747 ms t-test of RTdiff against zero: 3.6747 ms t(19) = 3.4651 p = 0.0025926
-
-----
Results ezANOVA with contrast and congruency (indirect task):
_____
main effect of congruency: F(1,19) = 57.663 p = 3.6035e-07 interaction effect congruency*contrast F(1,19) = 21.667 p = 0.00017267
```

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```
______
Sensitivity dprime (indirect task) at 4.9 cd/m<sup>2</sup>:
Mean dprime:
SD dprime:
SEM dprime:
                          0.17917
                             0.24955
SEM dprime: 0.055802
t-test dprime against 0: t(19) = 3.2109 p = 0.0046007
Read data of Experiment 2 / Direct Task: Experiment2_directTask.dat
Excluding trials with display timing errors:
  Total no. trials: 8921
  Timing error trials: 0
Excluding practice trials:
  Total no. trials: 8921
  Practice trials:
                   336
Excluding too fast/slow responses:
  Total no. trials: 8585
Too early trials: 8
Too late trials: 1
_____
Working on prime contrast: 0.3
Working on prime contrast: 0.7
Working on prime contrast: 1.4
Working on prime contrast: 2.9
                        1.4
2.9
4.9
7.8
Working on prime contrast:
Working on prime contrast:
working on prime contrast: 7.8
Working on prime contrast: 11.6
Working on prime contrast: 16.4
...number of participants, direct task: 20
______
Head of aggregated results per participant and prime contrast, direct task:
______
 part PrimeContrast Ntrials PCorr
                                  dprime
       2
2
   3
3
4
5
______
Percent-correct (direct task) at 2.9 cd/m<sup>2</sup>:
______
Mean PCorr:
SD of PCorr:
SEM of PCorr:
                               60.859
                               7.8522
SEM of PCorr: 1.7558 t-test of PCorr against chance t(19) = 6.1848 p = 6.0781e-06
·
sensitivity dprime (direct task) at 2.9 cd/m<sup>2</sup>:
______
Mean dprime:
SD of dprime:
SEM of dprime:
                               0.59076
                               0.42719
                               0.095523
t-test of dprime against zero t(19) = 6.1845 p = 6.0831e-06
```

## Experiment 2 Output Main Analyses using source("analysis\_Exp2.R")

Perform sensitivity analysis comparing both tasks(ITA check) at 4.9 cd/m²:									
differenc	e in dprime	(indirect-direct)	at	4.9 cd/m²:					
Mean of Mean of SD of SD of mean of SEM of t-test of	dprime dprime dprime dprime dprimeDiff dprimeDiff	<pre>indirect task: direct task: indirect task: direct task: (indirect-direct): indirect-direct: against zero</pre>	: .	0.17917 1.1458 0.24955 0.46963 -0.96662 0.12484 t(19) = 6.	1845	0 =	6.0	831e-	06