Analysis

dPrime ANOVA Error: ParticipantNumber Df Sum Sq Mean Sq F value Pr(>F) Residuals 82 513.3 6.26 Error: ParticipantNumber:Intensity Df Sum Sq Mean Sq F value Pr(>F) Intensity 4 270.7 67.68 178.4 <2e-16 *** Residuals 328 124.5 0.38 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 Error: ParticipantNumber:GroupSize Df Sum Sq Mean Sq F value Pr(>F) GroupSize 1 38.94 38.94 119.2 <2e-16 *** Residuals 82 26.79 0.33 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 Error: ParticipantNumber:Intensity:GroupSize Df Sum Sq Mean Sq F value Pr(>F) Intensity:GroupSize 4 6.71 1.6771 9.509 2.77e-07 *** 328 57.85 0.1764 Residuals Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1 Criterion ANOVA Error: ParticipantNumber Df Sum Sq Mean Sq F value Pr(>F) Residuals 82 86.13 1.05 Error: ParticipantNumber:Intensity Df Sum Sq Mean Sq F value Pr(>F) Intensity 4 8.867 2.2169 25.84 <2e-16 *** Residuals 328 28.144 0.0858 Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1 Error: ParticipantNumber:GroupSize

Df Sum Sq Mean Sq F value

Crowd Vs. Single

Pr(>F)

```
GroupSize 1 2.232 2.2324 16.57 0.000107 ***
Residuals 82 11.044 0.1347
```

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Intensity:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

Intensity:GroupSize 4 0.698 0.17440 3.822 0.00473 **

Residuals 328 14.968 0.04563

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

dPrime eta Squared

				stratum		term	df	sumsq	meansq
1			Part	ticipantNumber		Residuals	82	513.296	6.260
2		Partici	pantNum	ber:Intensity		Intensity	4	270.710	67.678
3		Partici	oantNum	ber:Intensity		Residuals	328	124.453	0.379
4		-	•	ber:GroupSize		GroupSize	1	38.940	38.940
5		-	•	mber:GroupSize		Residuals			
	Participa	-		sity:GroupSize	Intensit				
	-			sity:GroupSize	Incombi	Residuals			
'	-								
	statistic	p.value	etasq	${\tt partial.etasq}$	omegasq	partial.omeg	gasq	epsilons	sq
1	NA	NA	0.494	0.899	0.480	0	.773	0.48	30
2	178.366	0	0.261	0.824	0.260	0	. 648	0.26	30
3	NA	NA	0.120	0.683	0.064	0	.313	0.06	34
4	119.173	0	0.037	0.402	0.037	0	. 209	0.03	37
5	NA		0.026	0.317			.078		
6	9.509		0.006	0.104			.039		
7	NA	NA	NA	NA	NA	0	NA		JA
'			IVA	IVA	IVA		IVA	1	NA.
	cohens.f]	power							
1	2.979	1							
2	2.163	1							
3	1.467	1							
4	0.820	1							
5	0.681	1							
6	0.341	1							
7	NA	NA							

Criterion eta Squared

				stratum		term	df	sumsq	meansq
1			Part	ticipantNumber		Residuals	82	86.126	1.050
2		Partici	pantNum	mber:Intensity		Intensity	4	8.867	2.217
3		Partici	pantNum	mber:Intensity		Residuals	328	28.144	0.086
4		Partici	pantNum	mber:GroupSize		${\tt GroupSize}$	1	2.232	2.232
5		Partici	pantNum	mber:GroupSize		Residuals	82	11.044	0.135
6	Participar	ntNumber	:Intens	sity:GroupSize	Intensit	y:GroupSize	4	0.698	0.174
7	Participar	ntNumber	:Intens	sity:GroupSize		Residuals	328	14.968	0.046
	${\tt statistic}$	p.value	etasq	partial.etasq	omegasq	partial.omeg	gasq	epsilor	nsq
1	NA	NA	0.566	0.852	0.542	0	. 685	0.5	542
2	25.836	0.000	0.058	0.372	0.057	0	. 187	0.0)57
3	NA	NA	0.185	0.653	0.087	0	. 258	0.0)87

```
16.575
              0.000 0.015
                                  0.130
                                          0.014
                                                           0.055
                                                                     0.014
                                  0.425
                                                                     0.048
5
        NA
                 NA 0.073
                                          0.048
                                                           0.162
      3.822
              0.005 0.005
                                  0.045
                                          0.003
                                                           0.013
                                                                     0.003
6
7
                 NA
                                     NA
                                                                        NA
        NA
                       NA
                                             NA
                                                              NA
  cohens.f power
    2.399 1.000
1
2
    0.770 1.000
    1.371 1.000
3
4
    0.386 1.000
5
    0.859 1.000
6
    0.216 0.898
7
       NA
              NA
```

T-Tests & Cohen's Ds

One Sample t-test

data: single\$meanCriterion
t = -4.2839, df = 82, p-value = 4.964e-05
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 -0.24999858 -0.09144292
sample estimates:
 mean of x
 -0.1707207

[1] 0.4702186

One Sample t-test

data: single\$meanDprime
t = 16.712, df = 82, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 1.189591 1.511061
sample estimates:
mean of x
 1.350326</pre>

[1] 1.8344

One Sample t-test

data: crowd\$meanCriterion
t = -7.7094, df = 82, p-value = 2.622e-11
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 -0.3452612 -0.2036267
sample estimates:
 mean of x
 -0.2744439

[1] 2.02539

One Sample t-test data: crowd\$meanDprime t = 18.452, df = 82, p-value < 2.2e-16 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: 1.591246 1.975808 sample estimates: mean of x 1.783527 [1] 2.02539 R Squared [1] 0.6046796 Fear dPrime ANOVA Error: ParticipantNumber Df Sum Sq Mean Sq F value Pr(>F) Residuals 29 77.17 2.661 Error: ParticipantNumber:Intensity Df Sum Sq Mean Sq F value Pr(>F) Intensity 5 148.45 29.690 97.69 <2e-16 *** Residuals 145 44.07 0.304 Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1 Error: ParticipantNumber:GroupSize Df Sum Sq Mean Sq F value Pr(>F) GroupSize 1 8.013 8.013 54.61 3.84e-08 *** Residuals 29 4.255 0.147 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 Error: ParticipantNumber:Intensity:GroupSize Df Sum Sq Mean Sq F value Pr(>F) Intensity:GroupSize 5 5.37 1.0740 10.12 2.47e-08 *** Residuals 145 15.38 0.1061

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

```
Error: ParticipantNumber
         Df Sum Sq Mean Sq F value Pr(>F)
Residuals 29 36.82 1.27
Error: ParticipantNumber:Intensity
          Df Sum Sq Mean Sq F value Pr(>F)
Intensity 5 4.433 0.8865
                            11.25 3.54e-09 ***
Residuals 145 11.426 0.0788
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:GroupSize
         Df Sum Sq Mean Sq F value Pr(>F)
GroupSize 1 2.215 2.2153 23.46 3.91e-05 ***
Residuals 29 2.738 0.0944
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:Intensity:GroupSize
                    Df Sum Sq Mean Sq F value Pr(>F)
Intensity:GroupSize 5 0.286 0.05720 2.332 0.0453 *
Residuals
                  145 3.557 0.02453
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
dPrime eta Squared
```

				stratum		term	df	sumsq	meansq
1			Part	cicipantNumber		Residuals	29	77.167	2.661
2	I	Particip	oantNum	ber:Intensity		Intensity	5	148.448	29.690
3	I	Particip	antNum	ber:Intensity		Residuals	145	44.069	0.304
4	I	Particir	antNum	nber:GroupSize		GroupSize	1	8.013	8.013
5		-		mber:GroupSize		Residuals		4.255	0.147
6		-		sity:GroupSize	Intensit				
	-			sity:GroupSize		Residuals			
•	-			partial.etasq	Omenaca				
1	NA	-	0.255	0.834	0.245	-	.660	0.24	-
_						-			
2	97.687	0	0.490	0.906	0.488	0.	.795	0.48	39
3	NA	NA	0.146	0.741	0.095	0 .	. 429	0.09	95
4	54.609	0	0.026	0.343	0.026	0 .	. 172	0.02	26
5	NA	NA	0.014	0.217	0.004	0 .	.030	0.00)4
6	10.125	0	0.018	0.259	0.016	0.	.112	0.03	L6
7	NA	NA	NA	NA	NA		NA	1	JA
	cohens.f po	ower							
1	2.240 1								
2	3.107 1	.000							
3	1.693 1	.000							
4	0.722 1								
5	0.526 0								
6	0.591 1	.000							

7 NA NA

Criterion eta Squared

```
stratum
                                                              df sumsq meansq
                                                        term
1
                      ParticipantNumber
                                                              29 36.821 1.270
                                                   Residuals
2
            ParticipantNumber: Intensity
                                                   Intensity
                                                               5 4.433
                                                                         0.887
3
            ParticipantNumber: Intensity
                                                   Residuals 145 11.426 0.079
            ParticipantNumber:GroupSize
                                                   GroupSize
                                                                1
                                                                  2.215
                                                                          2.215
            ParticipantNumber:GroupSize
5
                                                   Residuals
                                                              29
                                                                  2.738 0.094
6 ParticipantNumber:Intensity:GroupSize Intensity:GroupSize
                                                               5 0.286 0.057
7 ParticipantNumber:Intensity:GroupSize
                                                   Residuals 145 3.557 0.025
  statistic p.value etasq partial.etasq omegasq partial.omegasq epsilonsq
                 NA 0.599
                                  0.912
                                           0.587
                                                            0.803
                                                                      0.587
2
     11.250
              0.000 0.072
                                  0.555
                                           0.070
                                                            0.328
                                                                      0.070
3
         NA
                 NA 0.186
                                  0.763
                                           0.128
                                                            0.471
                                                                      0.128
4
                                  0.384
     23.465
              0.000 0.036
                                           0.036
                                                            0.199
                                                                      0.036
5
                 NA 0.045
                                  0.435
                                           0.033
                                                            0.187
                                                                      0.033
         NA
6
              0.045 0.005
                                   0.074
                                                            0.018
                                                                      0.003
      2.332
                                           0.003
7
         NA
                 NA
                       NA
                                      NA
                                              NA
                                                              NA
                                                                         NA
  cohens.f power
     3.217 1.000
1
2
     1.116 1.000
3
     1.792 1.000
4
     0.789 1.000
5
    0.877 1.000
     0.284 0.756
6
7
              NΑ
        NΑ
```

T Tests & Cohen's D

One Sample t-test

```
data: single$meanCriterion
t = -4.9551, df = 29, p-value = 2.874e-05
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
   -0.3849591 -0.1600191
sample estimates:
   mean of x
   -0.2724891
```

[1] 0.9046779

One Sample t-test

```
data: single$meanDprime
t = 10.098, df = 29, p-value = 5.288e-11
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
```

0.6396206 0.9645227 sample estimates: mean of x 0.8020716

[1] 1.843623

One Sample t-test

data: crowd\$meanCriterion t = -6.3626, df = 29, p-value = 5.921e-07 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: -0.5674005 -0.2913553 sample estimates: mean of x -0.4293779

[1] 1.161638

One Sample t-test

data: crowd\$meanDprime
t = 11.418, df = 29, p-value = 3.003e-12
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 0.9033289 1.2975650
sample estimates:
mean of x
 1.100447

[1] 2.084606

R Squared

[1] 0.7738742

Noise

dPrime ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 127.1 4.382

Error: ParticipantNumber:Noise

Df Sum Sq Mean Sq F value Pr(>F)

Noise 6 222.12 37.02 130 <2e-16 ***

Residuals 174 49.55 0.28

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

GroupSize 1 45.85 45.85 92.63 1.56e-10 ***

Residuals 29 14.35 0.49

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Noise:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

Noise:GroupSize 6 6.478 1.0796 9.879 2.26e-09 ***

Residuals 174 19.015 0.1093

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 42.22 1.456

Error: ParticipantNumber:Noise

Df Sum Sq Mean Sq F value Pr(>F)

Noise 6 4.837 0.8062 11.73 4.98e-11 ***

Residuals 174 11.953 0.0687

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

GroupSize 1 0.11 0.1102 0.745 0.395

Residuals 29 4.29 0.1479

Error: ParticipantNumber:Noise:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

Noise:GroupSize 6 0.553 0.09224 3.099 0.00657 **

Residuals 174 5.178 0.02976

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

dPrime eta Squared

	stratum term	df	sumsq	${\tt meansq}$
1	ParticipantNumber Residuals	29	127.084	4.382
2	ParticipantNumber:Noise Noise	6	222.121	37.020
3	ParticipantNumber:Noise Residuals	174	49.549	0.285
4	ParticipantNumber:GroupSize GroupSize	: 1	45.849	45.849
5	ParticipantNumber:GroupSize Residuals	29	14.354	0.495
6	ParticipantNumber:Noise:GroupSize Noise:GroupSize	6	6.478	1.080

7	Participar	ntNumber	:Noise	:GroupSize	Residu	ials 174	19.015	0.109
	${\tt statistic}$	<pre>p.value</pre>	etasq	partial.etasq	omegasq	partial	.omegasq	epsilonsq
1	NA	NA	0.262	0.870	0.256		0.730	0.256
2	130.004	0	0.459	0.921	0.457		0.828	0.457
3	NA	NA	0.102	0.723	0.063		0.399	0.063
4	92.630	0	0.095	0.707	0.094		0.499	0.094
5	NA	NA	0.030	0.430	0.023		0.196	0.023
6	9.879	0	0.013	0.254	0.012		0.113	0.012
7	NA	NA	NA	NA	NA		NA	NA
	cohens.f p	oower						
1	2.585	1						
2	3.418	1						
3	1.614	1						
4	1.553	1						
5	0.869	1						
6	0.584	1						
7	NA	NA						

Criterion eta Squared

			st	tratum	term	df	sumsa	meansa	statistic
1			Participant	Number	Residuals		42.217	1.456	NA
2		Part	ticipantNumber		Noise	6	4.837	0.806	11.735
3			ticipantNumber	Residuals	174	11.953	0.069	NA	
4	Pa		oantNumber:Grou	GroupSize	1	0.110	0.110	0.745	
5		-	pantNumber:Grou	-	Residuals	29	4.290	0.148	NA
6		-	nber:Noise:Grou	-		6	0.553	0.092	3.099
_	-		mber:Noise:Grou	-	Residuals		5.178	0.030	NA
-	-			-	partial.omegas			cohens	.f power
1	-	0.611	0.891	0.598	0.76		0.598	-	55 1.000
2	0.000	0.070	0.483	0.067	0.2	72	0.067		67 1.000
3	NΑ	0.173	0.698	0.098	0.3	52	0.098	1.5	19 1.000
4	0.395	0.002	0.021	0.001	0.00		0.001		46 0.486
5		0.062	0.453	0.050	0.2	-	0.050		10 1.000
6	0.007		0.097	0.005	0.02		0.005		27 0.922
7	NA	NA	NA	NA		JA	N.A		NA NA

T Tests & Cohen's D

One Sample t-test

```
data: single$meanCriterion
t = -3.8927, df = 29, p-value = 0.0005349
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
   -0.3726436 -0.1159417
sample estimates:
   mean of x
   -0.2442926
```

[1] 0.7107106

One Sample t-test data: single\$meanDprime t = 13.055, df = 29, p-value = 1.139e-13 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: 1.008519 1.383216 sample estimates: mean of x 1.195867 [1] 2.383499 One Sample t-test data: crowd\$meanCriterion t = -4.5498, df = 29, p-value = 8.847e-05 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: -0.4010714 -0.1523139 sample estimates: mean of x -0.2766926 [1] 0.8306784 One Sample t-test data: crowd\$meanDprime t = 15.244, df = 29, p-value = 2.212e-15 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: 1.607572 2.105763 sample estimates: mean of x 1.856667 [1] 2.783232 R Squared [1] 0.6656999

Crowd Size (Intensity Collapsed)

dPrime ANOVA

10

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 29.68 1.024

Error: ParticipantNumber:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

GroupSize 5 12.06 2.4111 27.54 <2e-16 ***

Residuals 145 12.70 0.0876

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 27.85 0.9605

Error: ParticipantNumber:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

GroupSize 5 0.409 0.08180 3.953 0.00217 **

Residuals 145 3.000 0.02069

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

dPrime eta Squared

			stratum	term	df	sumsq	${\tt meansq}$	statistic	p.value
1		Participan	ntNumber	${\tt Residuals}$	29	29.683	1.024	NA	NA
2	Partic	cipantNumber:Gr	coupSize	${\tt GroupSize}$	5	12.056	2.411	27.535	0
3	Partic	cipantNumber:Gr	coupSize	${\tt Residuals}$	145	12.697	0.088	NA	NA
	etasq	partial.etasq	omegasq	partial.or	negas	sq epsi	lonsq c	ohens.f por	wer
1	0.545	0.700	0.498		0.63	33 (0.499	1.529	1
2	0.221	0.487	0.213		0.42	24 (0.213	0.974	1
3	NA	NA	NA		1	ΙA	NA	NA	NA

Criterion eta Squared

			${\tt stratum}$	term	df	sumsq	meansq	statistic	p.value
1		Participar	ntNumber	Residuals	29	27.854	0.960	NA	NA
2	Partic	cipantNumber:Gr	coupSize	GroupSize	5	0.409	0.082	3.953	0.002
3	Partic	cipantNumber:Gr	coupSize	Residuals	145	3.000	0.021	NA	NA
	etasq	partial.etasq	omegasq	partial.or	negas	sq epsi	lonsq co	ohens.f por	ver
1	0.891	0.903	0.871		0.88	30 (0.872	3.047 1	.00
2	0.013	0.120	0.010		0.07	76 (0.010	0.369 0	. 95
3	NA	NA	NA		1	JA.	NA	NA	NA

Crowd Size (Group Collapsed)

dPrime ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 43.46 1.499

Error: ParticipantNumber:Intensity

Df Sum Sq Mean Sq F value Pr(>F)

Intensity 5 208.15 41.63 187.4 <2e-16 ***

Residuals 145 32.21 0.22

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 31.53 1.087

Error: ParticipantNumber:Intensity

Df Sum Sq Mean Sq F value Pr(>F)

Intensity 5 14.220 2.8441 59.74 <2e-16 ***

Residuals 145 6.903 0.0476

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

dPrime eta Squared

			${\tt stratum}$	term	df	sumsq	meansq	statistic	p.value
1		Participan	ntNumber	Residuals	29	43.459	1.499	NA	NA
2	Participa	ntNumber:Ir	ntensity	Intensity	5	208.154	41.631	187.409	0
3	Participa	ntNumber:Ir	ntensity	Residuals	145	32.210	0.222	NA	NA
	etasq par	tial.etasq	omegasq	partial.or	negas	sq epsilo	onsq col	nens.f pow	er
1	0.153	0.574	0.130		0.48	31 0	. 130	1.162	1
2	0.733	0.866	0.729		0.83	38 0	.729	2.542	1
3	NA	NA	NA		1	ΝA	NA	NA 1	NA

Criterion eta Squared

			${\tt stratum}$	term	df	sumsq	meansq	statistic	p.value
1		Participar	ntNumber	Residuals	29	31.531	1.087	NA	NA
2	Partic	cipantNumber:Ir	ntensity	Intensity	5	14.220	2.844	59.745	0
3	Partic	cipantNumber:Ir	ntensity	Residuals	145	6.903	0.048	NA	NA
	etasq	partial.etasq	omegasq	partial.or	negas	sq epsi	lonsq co	ohens.f por	ver
1	0.599	0.820	0.572		0.77	79 (0.573	2.137	1
2	0.270	0.673	0.265		0.62	20 (0.266	1.435	1
3	NA	NA	NA		1	JA	NA	NA	NA

Identity

dPrime ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 205.8 7.097

Error: ParticipantNumber:Intensity

Df Sum Sq Mean Sq F value Pr(>F)

Intensity 5 485.9 97.18 157.1 <2e-16 ***

Residuals 145 89.7 0.62

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber: IdentityCondition

Df Sum Sq Mean Sq F value Pr(>F)

IdentityCondition 2 58.04 29.018 59.81 8.02e-15 ***

Residuals 58 28.14 0.485

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Intensity:IdentityCondition

Df Sum Sq Mean Sq F value Pr(>F)

Intensity: IdentityCondition 10 21.75 2.1746 13.96 <2e-16 ***

Residuals 290 45.18 0.1558

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 29 70.36 2.426

Error: ParticipantNumber:Intensity

Df Sum Sq Mean Sq F value Pr(>F)

Intensity 5 44.41 8.882 50.47 <2e-16 ***

Residuals 145 25.52 0.176

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:IdentityCondition

Df Sum Sq Mean Sq F value Pr(>F)

IdentityCondition 2 0.007 0.00362 0.044 0.957

Residuals 58 4.829 0.08326

 ${\tt Error: ParticipantNumber: Intensity: Identity Condition}$

Df Sum Sq Mean Sq F value Pr(>F)

Intensity:IdentityCondition 10 3.819 0.3819 10.79 1.39e-15 ***

Residuals 290 10.265 0.0354

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

dPrime eta Squared

						:	stratum			term	df
1					Part	icipan [.]	tNumber			Residuals	29
2			Pa	rtic	ipantNumb	_				Intensity	5
3					ipantNuml		•			Residuals	
4		Par			ber:Ident		•		Tdent	tityCondition	
5			-		ber:Ident	•			Idon	Residuals	
_	Darticir		-			•		Intensi	itw·Ident	tityCondition	
	-				•	•		THICEHS	r cy . rueni	Residuals	
1	-				ity:Ident						
	_		_		_	_	partial	_		partial.omega	_
1	205.807	7.09	7	NA	NA	0.220		0.820	0.215	0.7	705
2	485.921	97.18	157	.121	0	0.520		0.915	0.519	0.8	352
3	89.687	0.61	9	NA	NA	0.096		0.665	0.072	0.4	144
4	58.036	29.01	3 59	.811	0	0.062		0.562	0.062	0.4	107
5	28.139	0.48	5	NA	NA	0.030		0.384	0.020	0.1	185
6	21.746	2.17	5 13	.957	0	0.023		0.325	0.022	0.1	194
7	45.184	0.15	3	NA	NA	NA		NA	NA		NA
	epsilons			ower							
1	0.21	-	2.134	1							
2	0.51		3.279	1							
3	0.07		1.409	1							
4	0.06		1.133	1							
5	0.02		0.789	1							
6	0.02	22	0.694	1							
7	N	JA	NA	NA							

Criterion eta Squared

						${\tt stratum}$			term	df
1				Part	ticipar	ntNumber			Residuals	29
2			Parti	cipantNur	nber:I	ntensity			Intensity	5
3			Parti	cipantNur	nber:Iı	ntensity			Residuals	145
4		Part	ticipantNu	mber:Ide	ntityCo	ondition		Ider	ntityCondition	2
5			ticipantNu		•				Residuals	58
6	Partici		-		•		Intens	sitv:Ider	ntityCondition	10
	7 ParticipantNumber:Intensity:IdentityCondition Residuals 290									
		-		•	·		etasq	omegasq	partial.omegas	sq
1	70.357	2.426	NA	-	0.442	•	0.873	0.435	0.78	-
2	44.410	8.882	50.465	0.000	0.279		0.812	0.278	0.69	98
3	25.521	0.176	NA	NA	0.160		0.713	0.128	0.5	16
4	0.007	0.004	0.044	0.957	0.000		0.001	0.000	-0.00	03
5	4.829	0.083	NA	NA	0.030		0.320	0.017	0.12	27
6	3.819	0.382	10.788	0.000	0.024		0.271	0.022	0.19	53
7	10.265	0.035	NA	NA	NA		NA	NA	I	NΑ
	epsilon	sq cohe	ens.f powe	r						
1	0.4	-	2.618 1.00							
2	0.2	78 2	2.080 1.00	0						
3	0.1	.28 :	1.577 1.00	0						
4	0.0	000 (0.027 0.06	6						
5	0.0)17 (0.686 1.00	0						
6	0.0)22 (0.610 1.00	0						
7		NA	NA N	A						

T Tests & Cohen's D

One Sample t-test data: single\$meanCriterion t = -5.7778, df = 29, p-value = 2.935e-06 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: -0.6000798 -0.2863137 sample estimates: mean of x -0.4431968 [1] 1.054877 One Sample t-test data: single\$meanDprime t = 11.049, df = 29, p-value = 6.546e-12 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: 0.8958371 1.3028068 sample estimates: mean of x 1.099322 [1] 2.017317 One Sample t-test data: crowd\$meanCriterion t = -4.5498, df = 29, p-value = 8.847e-05 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: -0.4010714 -0.1523139 sample estimates: mean of x-0.2766926 [1] 0.8306784 One Sample t-test data: crowd\$meanDprime t = 15.244, df = 29, p-value = 2.212e-15 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: 1.607572 2.105763

```
sample estimates:
mean of x
1.856667
[1] 2.783232
Gender By Group Size (No Mixed Group)
dPrime ANOVA
Error: ParticipantNumber
         Df Sum Sq Mean Sq F value Pr(>F)
Residuals 37 171.2 4.626
Error: ParticipantNumber:Intensity
          Df Sum Sq Mean Sq F value Pr(>F)
Intensity 5 796.7 159.33 332.6 <2e-16 ***
Residuals 185
             88.6
                      0.48
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:Gender
         Df Sum Sq Mean Sq F value
                                   Pr(>F)
          1 7.357
                    7.357
                           16.99 0.000204 ***
Gender
Residuals 37 16.024
                    0.433
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:GroupSize
         Df Sum Sq Mean Sq F value
                                   Pr(>F)
GroupSize 1 88.16 88.16
                          165.8 3.08e-15 ***
Residuals 37 19.68
                     0.53
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:Intensity:Gender
                Df Sum Sq Mean Sq F value Pr(>F)
                      5.1 1.0191 4.738 0.000427 ***
Intensity:Gender
                5
               185
                     39.8 0.2151
Residuals
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:Intensity:GroupSize
                   Df Sum Sq Mean Sq F value Pr(>F)
Intensity:GroupSize
                    5 26.39
                               5.277
                                      22.37 <2e-16 ***
                  185 43.64
                               0.236
Residuals
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Error: ParticipantNumber:Gender:GroupSize

Gender:GroupSize 1 0.208 0.2078

Df Sum Sq Mean Sq F value Pr(>F)

0.75 0.392

Residuals 37 10.257 0.2772

Error: ParticipantNumber:Intensity:Gender:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

Intensity:Gender:GroupSize 5 2.06 0.4122 2.063 0.0719 .

Residuals 185 36.96 0.1998

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Criterion ANOVA

Error: ParticipantNumber

Df Sum Sq Mean Sq F value Pr(>F)

Residuals 37 135 3.649

Error: ParticipantNumber:Intensity

Df Sum Sq Mean Sq F value Pr(>F)

Intensity 5 65.31 13.062 45.68 <2e-16 ***

Residuals 185 52.90 0.286

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Gender

Df Sum Sq Mean Sq F value Pr(>F)

Gender 1 34.50 34.5 85.58 3.66e-11 ***

Residuals 37 14.91 0.4

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

 ${\tt Error: ParticipantNumber:GroupSize}$

Df Sum Sq Mean Sq F value Pr(>F)

GroupSize 1 1.022 1.0216 4.118 0.0497 *

Residuals 37 9.179 0.2481

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Intensity:Gender

Df Sum Sq Mean Sq F value Pr(>F)

Intensity:Gender 5 4.504 0.9008 13.02 7.34e-11 ***

Residuals 185 12.799 0.0692

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Intensity:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

Intensity:GroupSize 5 5.422 1.0845 23.24 <2e-16 ***</pre>

Residuals 185 8.633 0.0467

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Error: ParticipantNumber:Gender:GroupSize

Df Sum Sq Mean Sq F value Pr(>F)

```
Gender: GroupSize 1 2.148 2.1484
                                      14.89 0.000441 ***
Residuals
                     5.340 0.1443
                 37
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:Intensity:Gender:GroupSize
                             Df Sum Sq Mean Sq F value Pr(>F)
                              5 0.574 0.11476
                                                 2.289 0.0477 *
Intensity:Gender:GroupSize
Residuals
                            185
                                 9.276 0.05014
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
dPrime eta Squared
                                         stratum
                                                                         term
                                                                              df
1
                               ParticipantNumber
                                                                   Residuals
                                                                               37
2
                    ParticipantNumber: Intensity
                                                                   Intensity
                                                                                5
3
                    ParticipantNumber: Intensity
                                                                   Residuals 185
4
                       ParticipantNumber:Gender
                                                                      Gender
                                                                                1
5
                       ParticipantNumber:Gender
                                                                   Residuals
                                                                              37
6
                    ParticipantNumber:GroupSize
                                                                   GroupSize
                                                                                1
7
                    ParticipantNumber:GroupSize
                                                                   Residuals
                                                                              37
8
             ParticipantNumber:Intensity:Gender
                                                            Intensity: Gender
                                                                                5
9
             ParticipantNumber:Intensity:Gender
                                                                   Residuals 185
10
          ParticipantNumber:Intensity:GroupSize
                                                         Intensity: GroupSize
                                                                                5
11
          ParticipantNumber: Intensity: GroupSize
                                                                   Residuals 185
12
             ParticipantNumber:Gender:GroupSize
                                                            Gender: GroupSize
                                                                                1
13
             ParticipantNumber:Gender:GroupSize
                                                                   Residuals
                                                                             37
14 ParticipantNumber:Intensity:Gender:GroupSize Intensity:Gender:GroupSize
15 ParticipantNumber:Intensity:Gender:GroupSize
                                                                   Residuals 185
            meansq statistic p.value etasq partial.etasq omegasq
             4.626
                                   NA 0.127
                                                     0.822
  171.176
                           NA
                                                             0.121
1
2
  796.656 159.331
                     332.554
                                0.000 0.589
                                                     0.956
                                                             0.588
                                                     0.706
                                                             0.038
3
    88.636
             0.479
                                   NA 0.066
                           NA
    7.357
             7.357
                      16.987
                                0.000 0.005
                                                     0.166
                                                             0.005
5
    16.024
             0.433
                           NA
                                   NA 0.012
                                                     0.302
                                                             0.006
6
            88.155
                     165.768
                                0.000 0.065
                                                     0.705
                                                             0.065
    88.155
7
                                                             0.009
    19.677
             0.532
                                   NA 0.015
                                                     0.347
                           NA
8
    5.096
             1.019
                                0.000 0.004
                                                     0.121
                                                             0.003
                        4.738
9
    39.797
             0.215
                                                     0.518
                                                             0.002
                           NA
                                   NA 0.029
10
    26.385
             5.277
                      22.372
                                0.000 0.020
                                                     0.417
                                                             0.019
11 43.637
             0.236
                                   NA 0.032
                                                     0.541
                                                             0.005
                           NA
                                                             0.000
12
     0.208
             0.208
                        0.750
                                0.392 0.000
                                                     0.006
13 10.257
                                   NA 0.008
                                                             0.002
             0.277
                           NA
                                                     0.217
```

15 36.963 0.200 NA NA partial.omegasq epsilonsq cohens.f power 1 0.473 0.121 2.152 1.000 2 0.814 0.588 4.642 1.000 3 0.221 0.038 1.549 1.000 4 0.038 0.005 0.446 1.000 5 0.045 0.006 0.658 1.000 6 0.326 0.065 1.544 1.000

2.063

0.072 0.002

0.412

14

2.061

0.053

NA

0.001

NA

7	0.063	0.009	0.730	1.000
8	0.022	0.003	0.371	0.987
9	0.015	0.002	1.038	1.000
10	0.122	0.019	0.845	1.000
11	0.035	0.005	1.087	1.000
12	0.000	0.000	0.075	0.175
13	0.015	0.002	0.527	0.995
14	0.006	0.001	0.236	0.694
15	NA	NA	NA	NA

Criterion eta Squared

					c ·	tratum			term	df	
1			Residuals 37								
2		Partici	Number			Intensity	5				
3			-	oantNumb		•			Residuals		
4			-	icipantN		•				1	
5				icipantN						37	
6				pantNumbe			GroupSize 1				
7			_	oantNumb		_	Residuals 37				
8		Part	icipantNum			_	Intensity:Gender 5				
9			icipantNum		-		Residuals 185				
10	F		oantNumber:		-		Т	ntensity		5	
11		_	oantNumber:		-	_	Intensity:GroupSize 5 Residuals 185				
12	-	_	cipantNuml		•	-		Gender	::GroupSize	1	
13			icipantNuml			-		4011401	Residuals	37	
	Particir		-			-	Intensit	v:Gendei	::GroupSize	5	
	_		er:Intens	-		_		J	Residuals		
							al.etasq	omegasq	partial.om		
1	135.001	3.649	NA		0.373	1	0.936	0.368		0.744	
2	65.311	13.062	45.676	0.000	0.181		0.876	0.180	(0.587	
3	52.905	0.286	NA	NA	0.146		0.851	0.121		0.488	
4	34.499	34.499	85.584	0.000	0.095		0.788	0.095		0.430	
5	14.915	0.403	NA	NA	0.041		0.617	0.036	(0.222	
6	1.022	1.022	4.118	0.050	0.003		0.099	0.003	(0.021	
7	9.179	0.248	NA	NA	0.025		0.497	0.020		0.138	
8	4.504	0.901	13.019	0.000	0.012		0.327	0.012	(0.085	
9	12.799	0.069	NA	NA	0.035		0.580	0.010	(0.072	
10	5.422	1.084	23.238	0.000	0.015		0.369	0.014	(0.102	
11	8.633	0.047	NA	NA	0.024		0.482	-0.002	-(0.014	
12	2.148	2.148	14.886	0.000	0.006		0.188	0.006	(0.044	
13	5.340	0.144	NA	NA	0.015		0.365	0.010	(0.071	
14	0.574	0.115	2.289	0.048	0.002		0.058	0.001	(0.007	
15	9.276	0.050	NA	NA	NA		NA	NA		NA	
	epsilons	sq coher	ns.f power								
1	0.36	88 3	815 1.000								
2	0.18	30 2	653 1.000								
3	0.12	21 2	388 1.000								
4	0.09	95 1	929 1.000								
5	0.03	36 1	268 1.000								
6	0.00	0.	332 0.995								
7	0.02	20 0	995 1.000								
8	0.01	.2 0	697 1.000								

```
0.010
               1.175 1.000
10
      0.014
               0.765 1.000
     -0.002
               0.965 1.000
11
12
      0.006
               0.481 1.000
13
      0.010
               0.759 1.000
14
      0.001
               0.249 0.746
15
         NA
                  NA
```

T Tests & Cohen's D

One Sample t-test

data: singleMale
t = -8.8614, df = 37, p-value = 1.111e-10
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 -0.6462908 -0.4057401
sample estimates:
 mean of x
 -0.5260155

[1] 1.43751

One Sample t-test

data: crowdMale t = -5.37, df = 37, p-value = 4.477e-06 alternative hypothesis: true mean is not equal to 0 95 percent confidence interval: -0.293135 -0.132525 sample estimates: mean of x -0.21283

[1] 0.8711228

Paired t-test

data: singleMale and crowdMale
t = -7.6201, df = 37, p-value = 4.299e-09
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -0.3964613 -0.2299096
sample estimates:
mean of the differences
 -0.3131855

[1] 1.006644

All Gender Combinations & Low-High Intensity Split

dPrime ANOVA

Error: ParticipantNumber

```
Df Sum Sq Mean Sq F value Pr(>F)
Residuals 37 88.82
                   2.4
Error: ParticipantNumber:IntensityType
            Df Sum Sq Mean Sq F value Pr(>F)
IntensityType 1 275.75 275.75 469.5 <2e-16 ***
Residuals
         37 21.73
                         0.59
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:GroupType
          Df Sum Sq Mean Sq F value Pr(>F)
GroupType 4 45.48 11.370 74.33 <2e-16 ***
Residuals 148 22.64 0.153
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:IntensityType:GroupType
                       Df Sum Sq Mean Sq F value Pr(>F)
IntensityType:GroupType 4 9.841 2.4604
                                         24.78 1.02e-15 ***
                      148 14.694 0.0993
Residuals
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Criterion ANOVA
Error: ParticipantNumber
         Df Sum Sq Mean Sq F value Pr(>F)
Residuals 37 61.62
                   1.665
Error: ParticipantNumber:IntensityType
             Df Sum Sq Mean Sq F value Pr(>F)
IntensityType 1 17.97 17.966 46.5 4.95e-08 ***
Residuals
         37 14.30
                      0.386
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:GroupType
          Df Sum Sq Mean Sq F value Pr(>F)
GroupType 4 16.02 4.006 49.52 <2e-16 ***
Residuals 148 11.97 0.081
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Error: ParticipantNumber:IntensityType:GroupType
                       Df Sum Sq Mean Sq F value Pr(>F)
```

dPrime eta Squared

	stratum					term				sumsq
1	ParticipantNumber						Residuals			88.815
2		Participa	antNumbe	er:Inte	ensityType	${\tt IntensityType}$			1	275.753
3		Participa	antNumbe	er:Inte	ensityType			Residuals	37	21.729
4		Part	icipantl	Number	:GroupType			GroupType	4	45.479
5		Part	icipantN	Number	:GroupType			Residuals	148	22.638
6	Participa	ntNumber:	Intensit	уТуре	:GroupType	Inte	ensityTyp	e:GroupType	4	9.841
7	Participa	ntNumber:	Intensit	уТуре	:GroupType			Residuals	148	14.694
	meansq s	tatistic j	p.value	etasq	partial.et	asq	omegasq	partial.omeg	gasq	
1	2.400	NA	NA	0.185	0.	858	0.178	0 .	693	
2	275.753	469.543	0	0.576	0.	949	0.575	0 .	.880	
3	0.587	NA	NA	0.045	0.	597	0.038	0.	324	
4	11.370	74.333	0	0.095	0.	756	0.094	0 .	544	
5	0.153	NA	NA	0.047	0.	606	0.017	0 .	.174	
6	2.460	24.782	0	0.021	0.	401	0.020	0 .	200	
7	0.099	NA	NA	NA		NA	NA		NA	
	epsilonsq	cohens.f	power							
1	0.178	2.459	1							
2	0.576	4.332	1							
3	0.038	1.216	1							
4	0.094	1.759	1							
5	0.017	1.241	1							
6	0.020	0.818	1							
7	NA	NA	NA							

Criterion eta Squared

					stratum			term	df	sumsq
1	ParticipantNumber						Residuals			61.616
2		Particip	antNumb	er:Int	tensityType	IntensityType			1	17.966
3		Particip	antNumb	er:Int	tensityType			Residuals	37	14.296
4		Part	icipant	Number	:GroupType			GroupType	4	16.024
5		Part	icipant	Number	:GroupType			Residuals	148	11.972
6	Participa	ntNumber:	Intensi	tуТуре	e:GroupType	Int	ensityTy	pe:GroupType	4	4.261
7	Participa	ntNumber:	Intensi	tуТуре	e:GroupType			Residuals	148	3.966
	meansq st	atistic p	.value	etasq	partial.eta	.sq	omegasq	partial.omega	asq	
1	1.665	NA	NA	0.474	0.9	40	0.466	0.8	356	
2	17.966	46.498	0	0.138	0.8	19	0.138	0.6	338	
3	0.386	NA	NA	0.110	0.7	83	0.102	0.5	566	
4	4.006	49.522	0	0.123	0.8	02	0.122	0.6	310	
5	0.081	NA	NA	0.092	0.7	51	0.062	0.4	140	
6	1.065	39.751	0	0.033	0.5	18	0.032	0.2	290	
7	0.027	NA	NA	NA		NA	NA		NA	
	epsilonsq	cohens.f	power							
1	0.466	3.941	1							
2	0.138	2.128	1							

3	0.102	1.899	1
4	0.122	2.010	1
5	0.062	1.737	1
6	0.032	1.037	1
7	NA	NA	NA