The Effects of Encoding Instruction and Opportunity on the Recollection of Behaviorally Relevant Events - SUPPLEMENTAL MATERIALS

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	Intentional Encoding		Incidental Encoding	
Measure	Target	Distractor	Target	Distractor
R_o	.27(.24)	.16(.15)	.26(.23)	.17(.15)
d'	1.35(.56)	.92(.48)	1.03(.60)	.65(.44)
RMSD	.036(.018)	.061(.117)	.038(.015)	.044(.059)

Table 1b *Experiment 1 Mean and standard deviation of DPSD parameter estimates, R_o and d', model fits, and item strength derived from confidence ratings and old/new responses for target-paired and distractor paired faces under intentional and incidental encoding instructions.*

	1 presentaton		2 presentatons		8 presentatons	
Measure	Target	Distractor	Target	Distractor	Target	Distractor
R_o	.03(.04)	.03(.05)	.12(.10)	.06(.08)	.25(.22)	.14(.14)
d'	.37(.26)	.18(.21)	.56(.31)	.37(.25)	1.16(.67)	.67(.47)
RMSD	.04(.02)	.04(.02)	.04(.02)	.04(.01)	.03(.02)	.03(.02)

Table 2b. *Experiment 2a mean and standard deviation of DPSD parameter estimates, R_o and d', model fits, and strength ratings derived from confidence ratings and old/new responses for target-paired and distractor paired faces for 1, 2, and 8 encoding presentations.*

	500/500ms		1000/1000ms	
Measure	Target	Distractor	Target	Distractor
R_o	.11(.11)	.10(.11)	.14(.15)	.09(.15)
d'	.43(.42)	.34(.39)	.44(.36)	.37(.36)
RMSD	.06(.04)	.06(.04)	.05(.03)	.06(.03)

Table 3b *Experiment 2b mean and standard deviation of DPSD parameter estimates, R_o and d', model fits, and item strength derived from confidence ratings and old/new responses for target-paired and distractor paired faces for 500 and 1000ms encoding duration.*

A. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
Old/New	1.0	2204	-1.1	0.2	-1.4	-1.1	-0.8
Instruction	1.0	3189	0.4	0.1	0.2	0.5	0.7
Old/New:Instruction	1.0	4000	-0.3	0.1	-0.6	-0.3	-0.1

B. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	1264	0.1	0.1	-0.2	0.1	0.4
Square Type	1.0	4000	0.8	0.1	0.6	0.8	1.0
Square Type:Instruction	1.0	4000	0.2	0.2	-0.1	0.2	0.5

C. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	2257	1.5	0.1	1.2	1.5	1.8
Square Type	1.0	2212	-1.1	0.2	-1.4	-1.1	-0.8
Instruction	1.0	3082	0.5	0.1	0.2	0.5	0.7
Square Type:Instruction	1.0	4000	-0.3	0.1	-0.6	-0.3	-0.1

Table 4b. *Experiment 1 Bayesian estimates and credible intervals. A) Generalized linear mixed-effects model of accuracy with new items included. B) Generalized linear mixed-effects model of accuracy with new items removed. C) Linear mixed effects model of item strength.*

A. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	1656	1.3	0.1	1.1	1.3	1.4
Old/New	1.0	1365	-1.4	0.1	-1.6	-1.4	-1.2
N. Presentations	1.0	2465	0.7	0.1	0.5	0.7	0.8
Old/New:N. Presentations	1.0	4000	-0.3	0.1	-0.4	-0.3	-0.1

B. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	894	-0.4	0.1	-0.6	-0.4	-0.2
Square Type	1.0	4000	0.6	0.1	0.5	0.6	0.7
Square Type: N. Presentations	1.0	4000	0.4	0.1	0.3	0.4	0.6

C. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	894	-0.4	0.1	-0.6	-0.4	-0.2
Square Type	1.0	4000	0.6	0.1	0.5	0.6	0.7
N. Presentations	1.0	1011	0.2	0.1	-0.1	0.2	0.5
Square Type:N. Presentations	1.0	4000	0.4	0.1	0.3	0.4	0.6

Table 5b. *Experiment 2a Bayesian estimates and credible intervals. A) Generalized linear mixed-effects model of accuracy with new items included. B) Generalized linear mixed-effects model of accuracy with new items removed. C) Linear mixed effects model of item strength.*

A. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	2400	0.8	0.1	0.6	0.8	1.1
Square Type	1.0	2420	1.0	0.2	0.7	1.0	1.3
Duration	1.0	3384	0.2	0.1	-0.1	0.2	0.4
Square Type:Duration	1.0	4000	0.1	0.2	-0.2	0.1	0.5

B. Parameter	$\hat{R}$	n	mean	sd	2.5%	50%	97.5%
(Intercept)	1.0	954	5.7	0.3	5.1	5.6	6.2
Square Type	1.0	1839	1.9	0.3	1.3	1.9	2.4
Duration	1.0	3153	0.4	0.3	-0.2	0.4	0.9
Square Type:Duration	1.0	4000	-0.4	0.4	-1.1	-0.4	0.4

Table 6b. *Experiment 2b Bayesian estimates and credible intervals. A) Generalized linear mixed-effects model of accuracy with new items removed. B) Linear mixed effects model of item strength.*

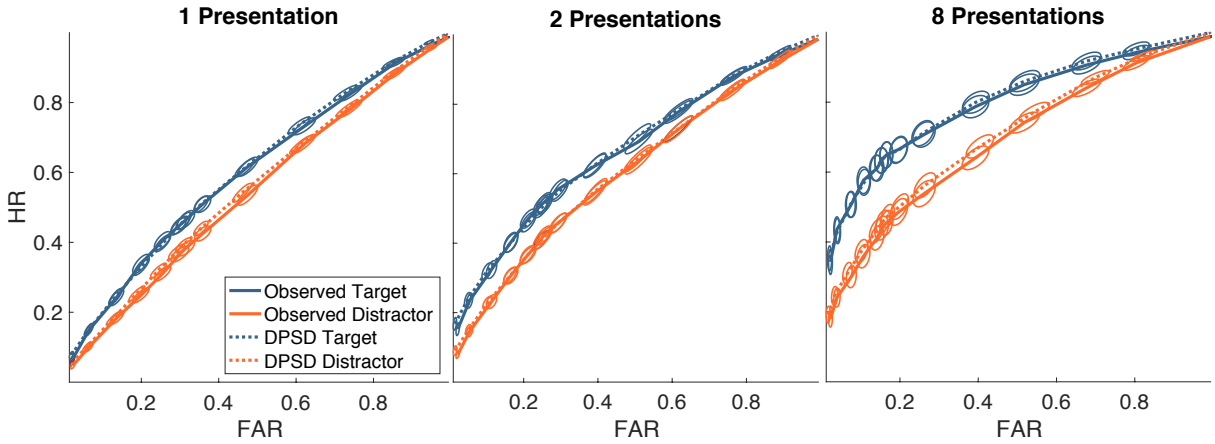

Figure 1. Experiment 2a: Observed (solid) and DPSD-predicted (dashed) ROC's for target-paired old faces (blue) and distractor-paired old faces (red), with 1, 2, and 8 encoding presentations. Error ellipses are 1 standard error of the mean.

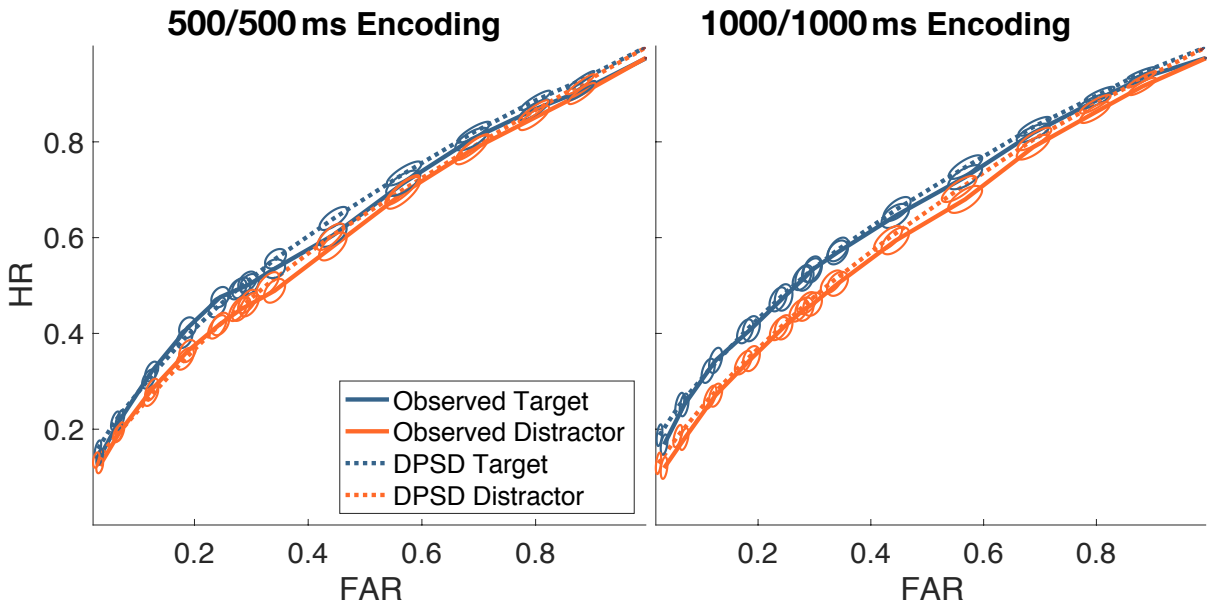

Figure 2. Experiment 2b: Observed (solid) and DPSD-predicted (dashed) ROC's for target-paired old faces (blue) and distractor-paired old faces (red), under 500/500ms (left) and 1000/1000ms (right) encoding duration. Error ellipses are 1 standard error of the mean.