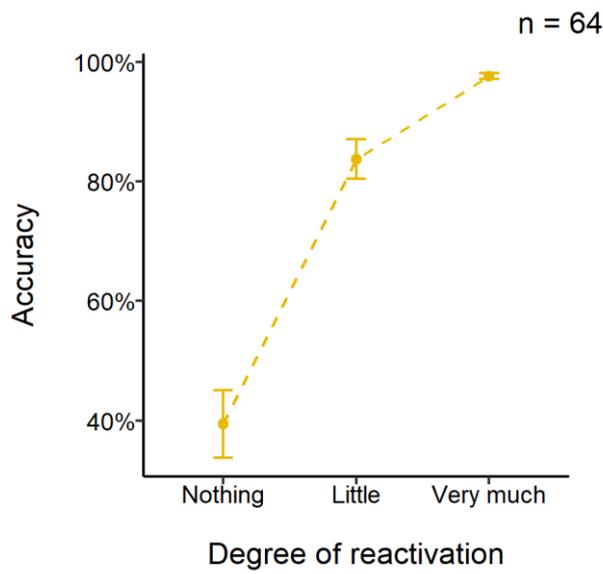


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3 **Figure S1: Experiment A1 (within-participants analysis).** Accuracy (percentage of correct
4 responses) in the cued-recall test of the Reactivated group. Each response was plotted
5 according to the degree of reactivation reported by the participant for that word in the
6 reactivation phase (Session 2). The distribution of responses of degree of reactivation were:
7 7% to 'nothing', 12% to 'little' and 81% to 'very much'. Each point provides the mean (\pm
8 SEM) across each condition.

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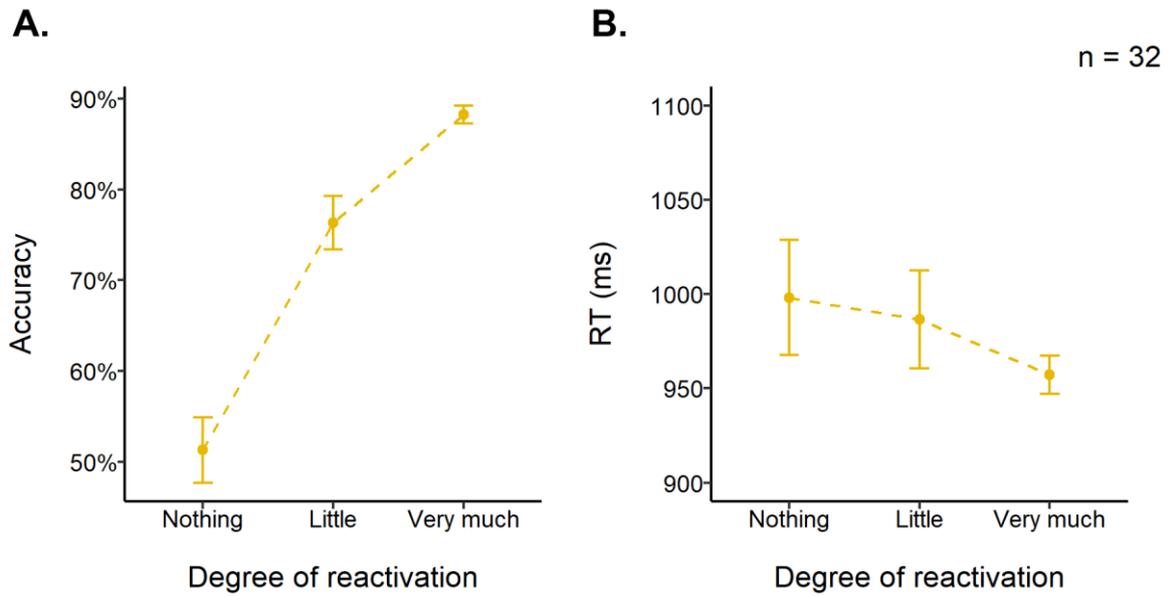
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2 **Figure S2: Experiment A2 (within-participants analysis).** Performance on the semantic
 3 relatedness task for novel words of the Reactivated group. Only related trials are shown. Each
 4 response was plotted according to the degree of reactivation reported by the participant for
 5 that word in the reactivation phase (Session 2). The distribution of responses of degree of
 6 reactivation were: 14% to 'nothing', 14% to 'little' and 72% to 'very much'. Each point
 7 provides the mean (\pm SEM) across each condition. (A) Accuracy (percentage of correct
 8 prime-target relatedness judgments). (B) Reaction times (in milliseconds) for correct
 9 judgments measured from target offset.

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1 **Supplementary Table 1**

2 Initial learning (measured as the percentage of correct responses in the third block of practice
3 of the learning task, TR3) and percentage of responses for each reactivation strength level in
4 each experimental group.
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Experiment	Group	Initial learning (%)	Degree of reactivation (%)		
			Nothing	Little	Very much
A1	Control	80	-	-	-
	Reactivated	81	7	12	81
A2	Control	79	-	-	-
	Reactivated	75	14	14	72
B1	Control	83	-	-	-
	Reactivated	77	14	15	71
B2	Reactivated	81	7	13	80
B3	Reactivated	84	12	13	75

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Supplementary Table 2

Accuracy (percentage of correct responses) in the cued-recall test for each reactivation strength level in each experimental group.

Experiment	Group	Cued-recall test (%)				
		Total	Nothing	Little	Very much	
A1	Control	70	-	-	-	
	Reactivated	82	39	84	98	
A2	Control	-	-	-	-	
	Reactivated	-	-	-	-	
B1	Control	Initial	83	-	-	-
		Updated	55	-	-	-
	Reactivated	Initial	77	53	69	96
		Updated	44	26	35	56
B2	Reactivated	Initial	80	56	76	93
		Updated	38	12	41	44
B3	Reactivated	Initial	79	47	64	96
		Updated	0	0	0	0

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