

Supplemental Online Materials for:
Boundary Conditions of the Remembered Success Effect

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Description of Contents

This document contains 11 tables reporting the results of the mixed effects ANOVAs and logistic regression models in Experiment 1 (Tables S1- S6) and Experiment 2 (Tables S7-S11) that are described in the main manuscript. We include them here as requested by the action editor, due to space limitations in the main manuscript.

Experiment 1

Table S1

Mixed effects ANOVAs of Test Performance, Experiment 1.

Test Performance

Tests of Within-Subjects Contrasts

Source	Type III sum of squares	df	Mean square	F	p	η_p^2	Noncent. parameter	Observed power
Task Type	.637	1	.637	68.410	<.001	.201	68.410	1.000
Task Type x Extended Amount	.107	2	.053	5.722	.004	.040	11.445	.863
Task Type x Ease Position	.001	1	.001	.069	.793	.000	.069	.058
Task Type x Task Order	.090	1	.090	9.712	.002	.034	9.712	.874
Task Type x Extended Amount x Ease Position	.045	2	.022	2.391	.093	.017	4.783	.481
Task Type x Extended Amount x Task Order	.025	2	.012	1.340	.264	.010	2.679	.288
Task Type x Ease Position x Task Order	.006	1	.006	.659	.418	.002	.659	.128
Task Type x Extended Amount x Ease Position x Task Order	.022	2	.011	1.179	.309	.009	2.359	.257
Error(Task Type)	2.534	272	.009					

Tests of Between-Subjects Effects

Intercept	245.066	1	245.066	5494.891	<.001	.953	5494.891	1.000
Extended Amount	.118	2	.059	1.325	.268	.010	2.650	.285
Ease Position	3.619E-5	1	<.001	.001	.977	.000	.001	.050
Task Order	.029	1	.029	.640	.424	.002	.640	.125
Extended Amount x Ease Position	.002	2	.001	.020	.981	.000	.039	.053
Extended Amount x Task Order	.074	2	.037	.831	.437	.006	1.661	.192
Ease Position x Task Order	.002	1	.002	.042	.837	.000	.042	.055
Extended Amount x Ease Position x Task Order	.002	2	.001	.028	.973	.000	.056	.054
Error	12.131	272	.045					

Table S2*Mixed effects ANOVAs of Confidence Judgments, Experiment 1.***Confidence Judgments**

Tests of Within-Subjects Contrasts								
Source	Type III sum of squares	df	Mean square	F	p	η_p^2	Noncent. parameter	Observed power
Task Type	8003.380	1	8003.380	150.130	<.001	.356	150.130	1.000
Task Type x Extended Amount	1782.267	2	891.133	16.716	<.001	.109	33.432	1.000
Task Type x Ease Position	.382	1	.382	.007	.933	.000	.007	.051
Task Type x Task Order	283.513	1	283.513	5.318	.022	.019	5.318	.632
Task Type x Extended Amount x Ease Position	144.799	2	72.399	1.358	.259	.010	2.716	.291
Task Type x Extended Amount x Task Order	190.944	2	95.472	1.791	.169	.013	3.582	.373
Task Type x Ease Position x Task Order	.413	1	.413	.008	.930	.000	.008	.051
Task Type x Extended Amount x Ease Position x Task Order	39.032	2	19.516	.366	.694	.003	.732	.109
Error(Task Type)	14500.228	272	53.310					
Tests of Between-Subjects Effects								
Intercept	2258836.544	1	2258836.544	3712.601	<.001	.932	3712.601	1.000
Extended Amount	5540.543	2	2770.272	4.553	.011	.032	9.106	.771
Ease Position	48.877	1	48.877	.080	.777	.000	.080	.059
Task Order	6.222	1	6.222	.010	.920	.000	.010	.051
Extended Amount x Ease Position	1127.913	2	563.957	.927	.397	.007	1.854	.210
Extended Amount x Task Order	150.247	2	75.123	.123	.884	.001	.247	.069
Ease Position x Task Order	203.476	1	203.476	.334	.564	.001	.334	.089
Extended Amount x Ease Position x Task Order	294.141	2	147.070	.242	.785	.002	.483	.088
Error	165491.406	272	608.424					

Table S3*Mixed effects ANOVAs of Discomfort Judgments, Experiment 1.*

Discomfort Judgments								
Tests of Within-Subjects Contrasts								
Source	Type III sum of squares	df	Mean square	F	p	η_p^2	Noncent. parameter	Observed power
Task Type	5076.931	1	5076.931	47.031	<.001	.147	47.031	1.000
Task Type x Extended Amount	837.667	2	418.834	3.880	.022	.028	7.760	.698
Task Type x Ease Position	89.829	1	89.829	.832	.362	.003	.832	.149
Task Type x Task Order	190.030	1	190.030	1.760	.186	.006	1.760	.262
Task Type x Extended Amount x Ease Position	553.373	2	276.686	2.563	.079	.018	5.126	.510
Task Type x Extended Amount x Task Order	148.481	2	74.241	.688	.504	.005	1.375	.165
Task Type x Ease Position x Task Order	.190	1	.190	.002	.967	.000	.002	.050
Task Type x Extended Amount x Ease Position x Task Order	56.774	2	28.387	.263	.769	.002	.526	.091
Error(Task Type)	29362.121	272	107.949					
Tests of Between-Subjects Effects								
Intercept	889528.062	1	889528.062	659.632	<.001	.708	659.632	1.000
Extended Amount	1973.182	2	986.591	.732	.482	.005	1.463	.173
Ease Position	42.231	1	42.231	.031	.860	.000	.031	.054
Task Order	551.832	1	551.832	.409	.523	.002	.409	.098
Extended Amount x Ease Position	1437.349	2	718.674	.533	.587	.004	1.066	.138
Extended Amount x Task Order	1766.835	2	883.418	.655	.520	.005	1.310	.159
Ease Position x Task Order	976.742	1	976.742	.724	.395	.003	.724	.136
Extended Amount x Ease Position x Task Order	1290.647	2	645.323	.479	.620	.004	.957	.128
Error	366797.929	272	1348.522					

Table S4

Coefficient Estimates (reported in log odds) standard errors, z-statistics and p-values in final statistical models of Extended Choice for Test 3, Test Tomorrow, Experiment 1.

	Estimate	SE	z	p
Test 3				
(Intercept)	1.647	.207	7.943	<.001
Extended Amount (+10)	-.112	.551	-.204	.839
Extended Amount (+5)	-.905	.495	-1.829	.067
Ease Position (Moderately Easy Start)	-.422	.408	-1.034	.301
Task Order (Extended 2 nd)	1.445	.417	3.466	.001
Extended Amount (+10) x Ease Position	.266	.962	.276	.782
Extended Amount (+5) x Ease Position	-1.381	.893	-1.546	.122
Extended Amount (+10) x Task Order	-.802	1.113	-.720	.472
Extended Amount (+5) x Task Order	-.882	1.006	-.877	.381
Ease Position x Task Order	-.664	.806	-.825	.410
Test Tomorrow				
(Intercept)	1.806	.221	8.155	<.001
Extended Amount (+10)	.061	.570	.108	.914
Extended Amount (+5)	-.500	.518	-.966	.334
Ease Position (Moderately Easy Start)	-.368	.443	-.832	.406
Task Order (Extended 2 nd)	1.316	.443	2.972	.003
Extended Amount (+10) x Ease Position	-.506	1.140	-.444	.657
Extended Amount (+5) x Ease Position	-1.916	1.036	-1.850	.064
Extended Amount (+10) x Task Order	.410	1.140	.360	.719
Extended Amount (+5) x Task Order	-.258	1.036	-.249	.803
Ease Position x Task Order	-1.091	.886	-1.232	.218
Extended Amount (+10) x Ease Position x Task Order	1.186	2.280	.520	.603
Extended Amount (+5) x Ease Position x Task Order	.423	2.072	.204	.838

Table S5

Coefficient Estimates (reported in log odds) standard errors, z-statistics and p-values in final statistical models of Extended Choice for Coping, Discomfort, and Task Duration Preferences, Experiment 1.

	Estimate	SE	z	p
Discomfort				
(Intercept)	-1.409	.196	-7.196	<.001
Extended Amount (+10)	.031	.530	.059	.953
Extended Amount (+5)	1.018	.451	2.255	.024
Ease Position (Moderately Easy Start)	-.055	.392	-.140	.888
Task Order (Extended 2 nd)	-1.352	.392	-3.454	.001
Extended Amount (+10) x Ease Position	-.864	1.059	-.816	.415
Extended Amount (+5) x Ease Position	.036	.903	.040	.968
Extended Amount (+10) x Task Order	-.422	1.059	-.399	.690
Extended Amount (+5) x Task Order	.324	.903	.359	.720
Ease Position x Task Order	.886	.783	1.131	.258
Extended Amount (+10) x Ease Position x Task Order	2.231	2.118	1.053	.292
Extended Amount (+5) x Ease Position x Task Order	-.898	1.805	-.498	.619
Coping				
(Intercept)	-1.488	.195	-7.626	<.001
Extended Amount (+10)	.138	.520	.265	.791
Extended Amount (+5)	.888	.459	1.934	.053
Ease Position (Moderately Easy Start)	.201	.390	.516	.606
Task Order (Extended 2 nd)	-1.447	.390	-3.708	<.001
Extended Amount (+10) x Ease Position	-.300	1.040	-.289	.773
Extended Amount (+5) x Ease Position	.272	.918	.296	.767
Extended Amount (+10) x Task Order	-.447	1.040	-.430	.667
Extended Amount (+5) x Task Order	.495	.918	.539	.590
Ease Position x Task Order	.737	.781	.945	.345
Extended Amount (+10) x Ease Position x Task Order	1.344	2.079	.647	.518
Extended Amount (+5) x Ease Position x Task Order	-.396	1.836	-.216	.829
Task Duration				
(Intercept)	-.381	.153	-2.488	.013
Extended Amount (+10)	-.928	.394	-2.354	.019
Extended Amount (+5)	-.075	.351	-.214	.830
Ease Position (Moderately Easy Start)	-.017	.306	-.054	.957
Task Order (Extended 2 nd)	-1.105	.306	-3.612	<.001
Extended Amount (+10) x Ease Position	.683	.788	.866	.386
Extended Amount (+5) x Ease Position	1.162	.702	1.656	.098
Extended Amount (+10) x Task Order	-1.445	.788	-1.833	.067

Extended Amount (+5) x Task Order	-.469	.702	-.668	.504
Ease Position x Task Order	1.463	.612	2.390	.017
Extended Amount (+10) x Ease Position x Task Order	-2.352	1.577	-1.491	.136
Extended Amount (+5) x Ease Position x Task Order	-3.858	1.403	-2.749	.006

Table S6

Coefficient Estimates (reported in log odds) standard errors, z-statistics and p-values in final statistical models of Extended Choice for Task Duration Preference, Extended First Task Order and Extended Second Task Order, Experiment 1.

	Estimate	SE	z	p
Extended First Task Order				
(Intercept)	.172	.206	.833	.405
Extended Amount (+10)	-.206	.525	-.392	.695
Extended Amount (+5)	.159	.521	.306	.760
Ease Position (Moderately Easy Start)	-.748	.413	-1.812	.070
Extended Amount (+10) x Ease Position	1.859	1.050	1.771	.077
Extended Amount (+5) x Ease Position	3.091	1.042	2.967	.003
Extended Second Task Order				
(Intercept)	-.933	.226	-4.131	<.001
Extended Amount (+10)	-1.651	.588	-2.805	.005
Extended Amount (+5)	-.310	.470	-.658	.510
Ease Position (Moderately Easy Start)	.715	.452	1.582	.114
Extended Amount (+10) x Ease Position	-.493	1.177	-.419	.675
Extended Amount (+5) x Ease Position	-.767	.940	-.816	.415

Experiment 2

Table S7

Mixed effects ANOVAs of Test Performance, Experiment 2.

Test Performance

Extended vs Short Comparison

Tests of Within-Subjects Contrasts

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η_p^2	Noncent. parameter	Observed power
Task Type	.836	1	.836	105.822	<.001	.355	105.822	1.000
Task Type x Extended Ease	.140	1	.140	17.714	<.001	.084	17.714	.987
Task Type x Task Order	.045	1	.045	5.636	.019	.029	5.636	.656
Task Type x Extended Amount x Task Order	.004	1	.004	.550	.459	.003	.550	.114
Error(Task Type)	1.518	192	.008					

Tests of Between-Subjects Effects

Intercept	158.766	1	158.766	5539.391	<.001	.967	5539.391	1.000
Extended Ease	.023	1	.023	.806	.370	.004	.806	.145
Task Order	.043	1	.043	1.498	.223	.008	1.498	.230
Extended Ease x Task Order	.060	1	.060	2.089	.150	.011	2.089	.301
Error	5.503	192	.029					

Equal Test Length Comparison

Tests of Within-Subjects Contrasts

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η_p^2	Noncent. parameter	Observed power
Task Type	.245	1	.245	48.772	<.001	.332	48.772	1.000
Task Type x Task Order	.011	1	.011	2.146	.146	.021	2.146	.306
Error(Task Type)	.493	98	.005					

<i>Tests of Between-Subjects Effects</i>								
Intercept	91.389	1	91.389	3774.104	<.001	.975	3774.104	1.000
Task Order	.007	1	.007	.276	.600	.003	.276	.082
Error	2.373	98	.024					

Table S8*Mixed effects ANOVAs of Confidence Judgments, Experiment 2.***Confidence Judgments*****Extended vs Short Comparison****Tests of Within-Subjects Contrasts*

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η_p^2	Noncent. parameter	Observed power
Task Type	16942.949	1	16942.949	124.153	<.001	.393	124.153	1.000
Task Type x Extended Ease	315.390	1	315.390	2.311	.130	.012	2.311	.328
Task Type x Task Order	267.137	1	267.137	1.958	.163	.010	1.958	.285
Task Type x Extended Amount x Task Order	26.535	1	26.535	.194	.660	.001	.194	.072
Error(Task Type)	26201.870	192	136.468					

Tests of Between-Subjects Effects

Intercept	989768.878	1	989768.878	1461.529	<.001	.884	1461.529	1.000
Extended Ease	513.064	1	513.064	.758	.385	.004	.758	.139
Task Order	10.463	1	10.463	.015	.901	.000	.015	.052
Extended Ease x Task Order	225.911	1	225.911	.334	.564	.002	.334	.089
Error	130025.237	192	677.215					

Equal Test Length Comparison*Tests of Within-Subjects Contrasts*

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η_p^2	Noncent. parameter	Observed power
Task Type	1766.426	1	1766.426	20.390	<.001	.172	20.390	.994
Task Type x Task Order	1.302	1	1.302	.015	.903	.000	.015	.052
Error(Task Type)	8489.981	98	86.632					

Tests of Between-Subjects Effects

Intercept	660860.703	1	660860.703	988.005	<.001	.910	988.005	1.000
Task Order	85.436	1	85.436	.128	.722	.001	.128	.064
Error	65550.652	98	668.884					

Table S9*Mixed effects ANOVAs of Discomfort Judgments, Experiment 2.***Discomfort Judgments*****Extended vs Short Comparison****Tests of Within-Subjects Contrasts*

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η^2_p	Noncent. parameter	Observed power
Task Type	5844.559	1	5844.559	44.124	<.001	.187	44.124	1.000
Task Type x Extended Ease	822.599	1	822.599	6.210	.014	.031	6.210	.698
Task Type x Task Order	743.167	1	743.167	5.611	.019	.028	5.611	.654
Task Type x Extended Amount x Task Order	34.524	1	34.524	.261	.610	.001	.261	.080
Error(Task Type)	25432.097	192	132.459					

Tests of Between-Subjects Effects

Intercept	951022.698	1	951022.698	926.765	<.001	.828	926.765	1.000
Extended Ease	3262.349	1	3262.349	3.179	.076	.016	3.179	.426
Task Order	136.982	1	136.982	.133	.715	.001	.133	.065
Extended Ease x Task Order	.050	1	.050	.000	.994	.000	.000	.050
Error	197025.517	192	1026.175					

Equal Test Length Comparison*Tests of Within-Subjects Contrasts*

Source	Type III sum of squares	<i>df</i>	Mean square	<i>F</i>	<i>p</i>	η^2_p	Noncent. parameter	Observed power
Task Type	2748.980	1	2748.980	31.830	<.001	.245	31.830	1.000
Task Type x Task Order	477.276	1	477.276	5.526	.021	.053	5.526	.643
Error(Task Type)	8463.829	98	86.366					

Tests of Between-Subjects Effects

Intercept	338354.141	1	338354.141	235.172	<.001	.706	235.172	1.000
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Task Order	8.264	1	8.264	.006	.940	.000	.006	.051
Error	140997.779	98	1438.753					

Table S10

Coefficients Estimates (Reported In Log Odds) Standard Errors, Z-Statistics And P-Values In Final Statistical Models Of Extended Task (Extended vs Short Comparison) Or Very Easy Task (Equal Task Length Comparison) For Test 3 Choice, Test Tomorrow Choice, Experiment 2.

	Estimate	SE	z	p
<i>Test 3</i>				
Extended vs. short comparison				
(Intercept)	1.882	.244	7.723	<.001
Extended Ease (Very Easy)	.855	.487	1.755	.079
Task Order (Extended 2 nd)	1.391	.487	2.855	.004
Extended Ease x Task Order	1.012	.975	1.038	.299
Equal task length comparison				
(Intercept)	1.571	.174	9.004	<.001
Task Order (Very Easy 2 nd)	1.714	.349	4.913	<.001
<i>Test Tomorrow</i>				
Extended vs. short comparison				
(Intercept)	1.730	.216	8.009	<.001
Extended Ease (Very Easy)	.890	.432	2.061	.039
Task Order (Extended 2 nd)	.814	.432	1.886	.059
Extended Ease x Task Order	1.005	.864	1.163	.245
Equal task length comparison				
(Intercept)	1.192	.274	4.343	<.001
Task Order (Very Easy 2 nd)	1.920	.549	3.498	<.001

Table S11

Coefficients Estimates (Reported In Log Odds) Standard Errors, Z-Statistics And P-Values In Final Statistical Models Of Extended Task Choice (Extended Vs. Short Comparison) Or Very Easy Task Choice (Equal Task Length Comparison) For Coping, Discomfort, Task Duration Evaluations, Experiment 2.

	Estimate	SE	z	p
<i>Discomfort</i>				
Extended vs. short comparison				
(Intercept)	-1.483	.211	-7.041	<.001
Extended Ease (Very Easy)	-.530	.421	-1.259	.208
Task Order (Extended 2 nd)	-1.610	.421	-3.821	<.001
Extended Ease x Task Order	-1.120	.843	-1.329	.184
Equal task length comparison				
(Intercept)	-1.044	.296	-3.521	<.001
Task Order (Very Easy 2 nd)	-2.708	.593	-4.568	<.001
<i>Coping</i>				
Extended vs. short comparison				
(Intercept)	-1.845	.250	-7.384	<.001
Extended Ease (Very Easy)	-.721	.500	-1.442	.149
Task Order (Extended 2 nd)	-1.943	.500	-3.887	<.001
Extended Ease x Task Order	-.325	1.000	-.325	.745
Equal task length comparison				
(Intercept)	-1.160	.296	-3.924	<.001
Task Order (Very Easy 2 nd)	-2.475	.591	-4.185	<.001
<i>Duration</i>				
Extended vs. short comparison				
(Intercept)	-.653	.164	-3.990	<.001
Extended Ease (Very Easy)	-.599	.327	-1.832	.067
Task Order (Extended 2 nd)	-1.261	.327	-3.855	<.001
Extended Ease x Task Order	-1.287	.654	-1.968	.049
Equal task length comparison				
(Intercept)	-1.044	.296	-3.521	<.001
Task Order (Very Easy 2 nd)	-2.708	.593	-4.568	<.001