

Supplemental Material S3. Post-hoc analysis of global precedence effect.

Parameter	Mean (SD) / Slope	Comparison
Global advantage: ACC (%)		
congruency		
Congruent	0.89 (0.18)	Congruent - Incongruent neutral: $t(1287) = 5.93, p < .001^{***}, SE = 0.01$
Incongruent neutral	0.81 (0.24)	Congruent - Incongruent opposite: $t(1287) = 11.31, p < .001^{***}, SE = 0.01$
Incongruent opposite	0.74 (0.31)	Incongruent neutral - Incongruent opposite: $t(1287) = 5.37, p < .001^{***}, SE = 0.01$
rate		
Fast	0.76 (0.28)	Fast-Medium: $t(1287) = -4.13, p < .001^{***}, SE = 0.01$
Medium	0.82 (0.25)	Fast-Slow: $t(1287) = -7.26, p < .001^{***}, SE = 0.01$
Slow	0.86 (0.24)	Medium-Slow: $t(1287) = -3.13, p < .01^{**}, SE = 0.01$
level × AQ		
Global	0.002	$t(1287) = 2.02, p < .05^*, SE = 0.002$
Local	-0.001	
level × congruency		
Congruent	Global	$t(1287) = 1.02, p = .31, SE = 0.02$
	Local	
Incongruent neutral	Global	$t(1287) = 3.18, p < .01^{**}, SE = 0.02$
	Local	
Incongruent opposite	Global	$t(1287) = 10.21, p < .001^{***}, SE = 0.02$
	Local	
Global advantage: RT (s)		
level		
Global	1.18 (0.65)	$t(4204) = -22.85, p < .001^{***}, SE = 0.02$
Local	1.62 (1.07)	

Parameter		Mean (<i>SD</i>) / Slope	Comparison
<i>congruency</i>			
Congruent		1.17 (0.69)	Congruent - Incongruent neutral: $t(4202) = -12.11, p < .001^{***}, SE = 0.03$
Incongruent neutral		1.47 (0.93)	Congruent - Incongruent opposite: $t(4203) = -16.14, p < .001^{***}, SE = 0.03$
Incongruent opposite		1.55 (1.03)	Incongruent neutral - Incongruent opposite: $t(4203) = -4.30, p < .001^{***}, SE = 0.03$
<i>level × congruency</i>			
Global	Congruent	0.98 (0.49)	Congruent - Incongruent neutral: $t(4202) = -8.01, p < .001^{***}, SE = 0.04$
	Incongruent Neutral	1.27 (0.68)	Congruent - Incongruent opposite: $t(4202) = -8.11, p < .001^{***}, SE = 0.04$
	Incongruent Opposite	1.29 (0.71)	Incongruent neutral - Incongruent opposite: $t(4203) = -0.09, p = 1.00, SE = 0.04$
Local	Congruent	1.37 (0.80)	Congruent - Incongruent neutral: $t(4203) = -9.10, p < .001^{***}, SE = 0.04$
	Incongruent Neutral	1.68 (1.10)	Congruent - Incongruent opposite: $t(4204) = -14.47, p < .001^{***}, SE = 0.04$
	Incongruent Opposite	1.89 (1.26)	Incongruent neutral - Incongruent opposite: $t(4203) = -5.75, p < .001^{***}, SE = 0.04$
<i>level × rate</i>			
Global	Fast	1.18 (0.64)	Fast-Medium: $t(4202) = 1.00, p = .96, SE = 0.04$
	Medium	1.17 (0.65)	Fast-Slow: $t(4203) = 1.13, p = .78, SE = 0.04$
	Slow	1.18 (0.65)	Medium-Slow: $t(4203) = 0.12, p = 1.00, SE = 0.04$
Local	Fast	1.52 (1.03)	Fast-Medium: $t(4202) = -2.41, p < .05^*, SE = 0.04$
	Medium	1.61 (1.06)	Fast-Slow: $t(4202) = -4.36, p < .001^{***}, SE = 0.04$
	Slow	1.72 (1.10)	Medium-Slow: $t(4202) = -1.97, p = .15, SE = 0.04$
<i>rate × congruency</i>			
Congruent	Fast	1.10 (0.66)	Fast-Medium: $t(4202) = -0.31, p = 1.00, SE = 0.04$
	Medium	1.13 (0.68)	Fast-Slow: $t(4202) = -3.90, p < .001^{***}, SE = 0.04$
	Slow	1.29 (0.72)	Medium-Slow: $t(4202) = -3.64, p < .001^{***}, SE =$
Incongruent Neutral	Fast	1.41 (0.90)	Fast-Medium: $t(4202) = -0.51, p = 1.00, SE = 0.05$
	Medium	1.45 (0.87)	Fast-Slow: $t(4202) = -2.17, p = .09^*, SE = 0.05$
	Slow	1.54 (1.01)	Medium-Slow: $t(4202) = -1.69, p = .27, SE = 0.05$

Parameter		Mean (SD) / Slope	Comparison
Incongruent Opposite	Fast	1.58 (0.97)	Fast-Medium: $t(4202) = -0.99, p = .97, SE = 0.05$
	Medium	1.60 (1.08)	Fast-Slow: $t(4202) = 1.65, p = .30, SE = 0.05$
	Slow	1.47 (1.03)	Medium-Slow: $t(4202) = 2.71, p < .05^*, SE = 0.05$
AQ × level × rate			
Fast	Global	-0.003	$t(4203) = 2.59, p < .01^{**}, SE = 0.006$
	Local	0.012	
Medium	Global	0.004	$t(4203) = 1.06, p = .29, SE = 0.006$
	Local	0.011	
Slow	Global	0.017	$t(4203) = -1.18, p = .24, SE = 0.006$
	Local	0.010	
Global interference: ACC (%)			
congruency			
Congruent		0.88 (0.19)	Congruent - Incongruent neutral: $t(625) = 5.12, p < .001^{***}, SE = 0.02$
Incongruent neutral		0.78 (0.25)	Congruent - Incongruent opposite: $t(625) = 12.21, p < .001^{***}, SE = 0.02$
Incongruent opposite		0.63 (0.34)	Incongruent neutral - Incongruent opposite: $t(625) = 7.10, p < .001^{***}, SE = 0.02$
rate			
Fast		0.72 (0.29)	Fast-Medium: $t(625) = -2.48, p < .05^*, SE = 0.02$
Medium		0.77 (0.28)	Fast-Slow: $t(625) = -4.29, p < .001^{***}, SE = 0.02$
Slow		0.81 (0.28)	Medium-Slow: $t(625) = -1.82, p = .21, SE = 0.02$
Global interference: RT (s)			
congruency			
Congruent		1.37 (0.80)	Congruent - Incongruent neutral: $t(1964) = -9.34, p < .001^{***}, SE = 0.04$
Incongruent neutral		1.68 (1.10)	Congruent - Incongruent opposite: $t(1964) = -14.94, p < .001^{***}, SE = 0.04$
Incongruent opposite		1.89 (1.26)	Incongruent neutral - Incongruent opposite: $t(1964) = -6.06, p < .001^{***}, SE = 0.04$

Parameter		Mean (SD) / Slope	Comparison
rate			
Fast		1.52 (1.03)	Fast-Medium: $t(1963) = -2.44, p < .05^*, SE = 0.04$
Medium		1.61 (1.06)	Fast-Slow: $t(1963) = -4.18, p < .001^{***}, SE = 0.04$
Slow		1.72 (1.10)	Medium-Slow: $t(1963) = -1.75, p = .24, SE = 0.04$
congruency × rate			
Congruent	Fast	1.26 (0.75)	Fast-Medium: $t(1963) = -0.56, p = 1.00, SE = 0.07$
	Medium	1.32 (0.79)	Fast-Slow: $t(1963) = -3.71, p < .001^{***}, SE = 0.07$
	Slow	1.53 (0.83)	Medium-Slow: $t(1963) = -3.19, p < .01^{**}, SE = 0.07$
Incongruent Neutral	Fast	1.56 (1.09)	Fast-Medium: $t(1963) = -0.77, p = 1.00, SE = 0.07$
	Medium	1.64 (1.00)	Fast-Slow: $t(1963) = -2.82, p < .05^*, SE = 0.07$
	Slow	1.83 (1.19)	Medium-Slow: $t(1963) = -2.08, p = .11, SE = 0.07$
Incongruent Opposite	Fast	1.84 (1.21)	Fast-Medium: $t(1963) = -2.70, p < .05^*, SE = 0.08$
	Medium	1.99 (1.32)	Fast-Slow: $t(1964) = -0.96, p = 1.00, SE = 0.08$
	Slow	1.83 (1.26)	Medium-Slow: $t(1963) = 1.82, p = .20, SE = 0.08$
Local interference: ACC (%)			
congruency			
Congruent		0.90 (0.17)	Congruent - Incongruent neutral: $t(625) = 3.55, p < .01^{**}, SE = 0.02$
Incongruent neutral		0.84 (0.23)	Congruent - Incongruent opposite: $t(625) = 3.88, p < .001^{***}, SE = 0.02$
Incongruent opposite		0.84 (0.25)	Incongruent neutral - Incongruent opposite: $t(625) = 0.32, p = 1.00, SE = 0.02$
rate			
Fast		0.80 (0.26)	Fast-Medium: $t(625) = -3.75, p < .001^{***}, SE =$
Medium		0.87 (0.20)	Fast-Slow: $t(625) = -6.66, p < .001^{***}, SE = 0.02$
Slow		0.92 (0.17)	Medium-Slow: $t(625) = -2.91, p < .05^*, SE = 0.02$
Local interference: RT (s)			
congruency			

Parameter	Mean (SD) / Slope	Comparison	
Congruent	0.98 (0.49)	Congruent - Incongruent neutral: $t(2201) = -10.40, p < .001^{***}, SE = 0.03$	
Incongruent neutral	1.27 (0.68)	Congruent - Incongruent opposite: $t(2201) = -11.23, p < .001^{***}, SE = 0.03$	
Incongruent opposite	1.29 (0.71)	Incongruent neutral - Incongruent opposite: $t(2201) = -0.81, p = 1.00, SE = 0.03$	
rate × congruency			
Congruent	Fast	0.95 (0.51)	Fast-Medium: $t(2200) = -0.01, p = 1.00, SE = 0.05$
	Medium	0.95 (0.48)	Fast-Slow: $t(2201) = -2.36, p = .06^*, SE = 0.05$
	Slow	1.05 (0.49)	Medium-Slow: $t(2200) = -2.38, p = .05^*, SE = 0.05$
Incongruent Neutral	Fast	1.26 (0.64)	Fast-Medium: $t(2201) = -0.14, p = 1.00, SE = 0.05$
	Medium	1.27 (0.68)	Fast-Slow: $t(2201) = -0.16, p = 1.00, SE = 0.05$
	Slow	1.28 (0.71)	Medium-Slow: $t(2201) = -0.02, p = 1.00, SE = 0.05$
Incongruent Opposite	Fast	1.38 (0.68)	Fast-Medium: $t(2201) = 1.72, p = .26, SE = 0.05$
	Medium	1.30 (0.73)	Fast-Slow: $t(2201) = 3.97, p < .001^{***}, SE = 0.05$
	Slow	1.20 (0.70)	Medium-Slow: $t(2201) = 2.27, p = .07^*, SE = 0.05$
AQ × rate			
Fast	-0.004	Fast-Medium: $t(2200) = -1.74, p = .19, SE = 0.004$	
Medium	0.004	Fast-Slow: $t(2201) = -4.28, p < .001^{***}, SE = 0.004$	
Slow	0.014	Medium-Slow: $t(2200) = -2.56, p < .05^*, SE = 0.004$	

Note. $*p < .05$; $**p < .01$; $***p < .001$; $^{\circ}p < .1$.