

## Supplemental Material S2. LLM analysis of global precedence effect.

Parameter	Accuracy			RT		
	(NDF, DDF)	F	<i>p</i>	(NDF, DDF)	F	<i>p</i>
<b>Global advantage</b>						
AQ	(1, 35)	0.02	= .88	(1, 34.90)	0.52	= .47
<i>congruency</i>	(2, 1287)	63.98	< .001***	(2, 4202.80)	144.05	< .001***
<i>level</i>	(1, 1287)	0.17	= .68	(1, 4203.60)	27.83	< .001***
<i>rate</i>	(2, 1287)	26.50	< .001***	(2, 4202.20)	0.95	= .39
AQ × <i>congruency</i>	(2, 1295)	1.12	= .33	(2, 4220.60)	0.83	= .44
<i>level</i> × AQ	(1, 1287)	4.06	= .04*	(1, 4203.60)	2.11	= .15
<i>level</i> × <i>congruency</i>	(2, 1287)	23.08	< .001***	(2, 4203.00)	14.68	< .001***
<i>level</i> × <i>rate</i>	(2, 1295)	0.16	= .85	(2, 4202.20)	6.89	= .001**
<i>rate</i> × AQ	(2, 1295)	0.11	= .90	(2, 4202.20)	2.33	= .10
<i>rate</i> × <i>congruency</i>	(4, 1295)	0.53	= .72	(4, 4202.30)	6.13	< .001***
AQ × <i>level</i> × <i>congruency</i>	(2, 1295)	0.33	= .72	(2, 4220.70)	1.32	= .27
AQ × <i>level</i> × <i>rate</i>	(2, 1295)	0.38	= .68	(2, 4202.20)	3.63	= .03*
AQ × <i>congruency</i> × <i>rate</i>	(4, 1295)	0.45	= .77	(4, 4220.20)	0.48	= .75
<i>congruency</i> × <i>level</i> × <i>rate</i>	(4, 1295)	1.32	= .26	(4, 4220.20)	0.54	= .71
AQ × <i>level</i> × <i>congruency</i> × <i>rate</i>	(4, 1295)	1.36	= .25	(4, 4220.20)	0.34	= .85
<b>Global interference</b>						
AQ	(1, 37)	0.11	= .75	(1, 34.86)	0.55	= .46
<i>congruency</i>	(2, 625)	75.20	< .001***	(2, 1963.58)	3.41	= .03*
<i>rate</i>	(2, 625)	9.27	< .001***	(2, 1963.28)	8.76	< .001***
<i>congruency</i> × AQ	(2, 629)	1.07	= .34	(2, 1963.89)	2.59	= .08*
<i>congruency</i> × <i>rate</i>	(4, 629)	1.20	= .31	(4, 1963.27)	3.23	= .01*
<i>rate</i> × AQ	(2, 629)	0.36	= .70	(2, 1973.17)	0.22	= .80
<i>rate</i> × <i>congruency</i> × AQ	(4, 629)	1.24	= .29	(4, 1973.12)	0.12	= .98

**Local interference**

AQ	(1, 37)	0.60	= .44	(1, 34.69)	0.30	= .59
<i>congruency</i>	(2, 625)	9.25	< .001***	(2, 2200.75)	79.37	< .001***
<i>rate</i>	(2, 625)	22.26	< .001***	(2, 2200.44)	9.50	< .001***
<i>congruency</i> × AQ	(2, 629)	0.42	= .66	(2, 2210.44)	0.55	= .58
<i>congruency</i> × <i>rate</i>	(4, 629)	0.73	= .57	(4, 2200.42)	5.64	< .001***
<i>rate</i> × AQ	(2, 629)	0.14	= .87	(2, 2200.26)	9.25	< .001***
<i>rate</i> × <i>congruency</i> × AQ	(4, 629)	0.65	= .63	(4, 2210.23)	1.34	= .25

Note. NDF = Numerator Degrees of Freedom; DDF = Denominator Degrees of Freedom. \* $p < .05$ ; \*\* $p < .01$ ; \*\*\* $p < .001$ ;  $p < .1$ .