

Table S1. Individual data of the reading measures and lexical decision task in LA/RC and RA/LC conditions.

ID	TEXT		High Frequency Words				Low Frequency Words				Pseudowords				Lexical Decision			
	% Errors ¹		Times ²		% Errors ¹		Times ³		% Errors ¹		Times ³		% Errors ¹		Times ³		Times ³	
	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC
1	1.90	3.00	29.00	32.00	0.00	0.00	10	10	7.50	5.00	18	21	15.00	10.00	35	30	1.33	1.28
2	6.50	5.60	38.20	38.60	5.00	5.00	13	16	17.5	20.00	32	29	12.50	10.00	30	27	1.40	1.71
3	0.00	2.70	27.20	29.70	0.00	0.00	10	11	0.00	5.00	14	14	0.00	5.00	20	18.6	1.54	1.53
4	0.00	1.30	19.00	19.50	0.00	5.00	9	11	0.00	0.00	9	13	0.00	0.00	14	16	0.72	0.78
5	1.60	2.60	21.00	25.20	0.00	0.00	12	12	15.00	0.00	16	13	5.00	0.00	26	28	1.10	1.30
6	10.70	14.20	54.00	31.46	25.00	50.00	41	62	40.00	60.00	55	100	90.00	70.00	53	72	1.04	1.37
7	7.80	10.90	72.40	58.00	17.50	0.00	25	20	15.00	22.50	42	38	17.50	30.00	50	41	1.35	1.88
8	2.00	1.90	21.50	19.80	2.50	0.00	14	10	0.00	0.00	15	14	5.00	20.00	27	33	1.20	1.19
9	7.00	11.40	86.00	101.00	5.00	12.50	33	31	10.00	22.50	46	50	27.50	20.00	64	55	2.25	2.27
10	10.40	15.30	50.70	51.90	12.50	17.50	17	17	17.50	22.50	37	36	35.00	35.00	44	36	1.47	1.72

Notes: ¹ percentage (%) of errors, calculated as total number of errors/total number of words x 100; ² seconds/syllables x 100; ³ seconds. LA/RC = Left Anodal/Right Cathodal; RA/LC = Right Anodal/Left Cathodal.

Table S2. Individual data of the phoneme blending, working memory and rapid automatized naming tasks in LA/RC and RA/LC conditions.

ID	Phoneme Blending				N-back				RAN			
	Accuracy ¹		Times ²		Verbal ³		Visuo-Spatial ³		Letters ²		Colours ²	
	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC	LA/RC	RA/LC
1	71	75	21.00	11.60	2.38	2.72	2.00	2.54	4.65	3.60	5.30	6.25
2	57	58	18.91	20.50	3.36	3.35	3.68	2.75	4.05	3.90	3.85	5.60
3	64	73	28.90	19.50	2.61	3.64	3.40	3.76	2.30	2.80	2.90	3.45
4	76	68	13.20	19.00	3.50	2.72	3.63	3.70	3.10	4.10	4.75	4.45
5	71	73	21.81	30.45	2.33	2.40	2.33	2.33	3.51	5.00	4.61	4.95
6	63	69	26.70	38.33	2.60	2.33	2.71	2.66	5.15	4.35	5.65	4.32
7	19	23	39.26	44.75	2.33	2.71	1.75	1.55	3.10	3.40	6.80	7.75
8	74	74	12.70	18.10	2.64	2.64	2.42	3.26	2.40	2.70	4.05	4.40
9	63	71	27.90	18.20	1.30	2.13	2.27	3.50	3.45	4.75	5.80	5.70
10	70	66	12.91	18.72	2.58	2.66	3.57	3.28	5.75	3.80	4.50	3.40

Notes: ¹Number of Phonemes; ²in seconds; ³index of efficiency. RAN = Rapid Automatized Naming; LA/RC = Left Anodal/Right Cathodal; RA/LC = Right Anodal/Left Cathodal.