

**Supplement Table S1.** All background/overlay colours compared with white colour for each parameter in the groups (dyslexic with orange colour; non-dyslexic with green,  $p < 0.05$ )

Colours	Red	Blue	Yellow	Orange	Purple	Turquoise	Red O	Turquoise O	Blue O	Orange O	Purple O	Yellow O
Reading duration (ms)			.048	.043				.000				
Fixation Count				.006				.001		.047		
Fixation Frequency (count/s)		.051						.021				
Fixation Duration Total (ms)		.000		.025				.016				
Fixation Duration Average (ms)		.043						.025		.014		
Saccade Count		.019		.021			.021			.017		
Saccade Frequency (count/s)	.000	.000					.035	.000		.050		.051
Saccade Duration Total (ms)	.000	.000				.053				.035		
Saccade Duration Average (ms)												
Alpha ( $\mu V^2$ )												
Beta ( $\mu V^2$ )					.010	.029	.024	.023			.052	
Delta ( $\mu V^2$ )												
Theta ( $\mu V^2$ )								.003				
Whole range ( $\mu V^2$ )												
EDA(uS)												
Mean RR (ms)	.043	.028				.013				.022		.033
STD RR (ms)												
Mean HR (beats/min)		.033				.015				.024		.032
STD HR (beats/min)												
RMSSD (ms)												
CVRR=SDRR/MeanRR (ms)												

\* Wilcoxon Signed Ranks Test (Reading duration, Eye-tracking, EEG); \*\* Paired Samples Test (EDA, HRV).