Control Analysis: GAM for Full Original Sample (N = 175)

	Predictors	*Estimate*	*Std. Error*	*t*	*F*	*edf*	*p*	
Main Effects	reading time of previous trial (log-transformed)				204.591	33.664	**< 2 × 10^{-16}**	*
	d-prime				38.774	28.042	**< 2 × 10^{-16}**	*
	mean *d*-prime singletasks				24.344	1.892	**< 2 × 10^{-16}**	*
	mean comprehension question performance				5.348	2.305	**3.23 × 10^{-3}**	*
	de-meaned comprehension question performance				39.408	7.477	**< 2 × 10^{-16}**	*
	word frequency				6.837	7.571	**< 2 × 10^{-16}**	*
	word length				73.076	4.038	**< 2 × 10^{-16}**	*
	word entropy				4.027	3.704	**2.44 × 10^{-3}**	*
	surprisal				9.547	4.107	**< 2 × 10^{-16}**	*
	age				51.783	3.028	**< 2 × 10^{-16}**	*
	n-back reaction [reaction vs. no reaction]	0.3167	0.00179	177.06			**< 2 × 10^{-16}**	*
	block number	-0.0061	0.00017	-36.89			**< 2 × 10^{-16}**	*
	trial number	-0.0004	0.00001	-64.47			**< 2 × 10^{-16}**	*
	recording location (online vs. lab)	-0.2514	0.02602	-9.66			**< 2 × 10^{-16}**	*
	cognitive load [1-back vs. Reading Only]	0.4318	0.02514	17.17			**< 2 × 10^{-16}**	*
	cognitive load [2-back vs. Reading Only]	0.7819	0.02526	30.95			**< 2 × 10^{-16}**	*
2-way Interaction	surprisal x cognitive load				13.962	13.849	**< 2 × 10^{-16}**	*
3-way Interaction	surprisal x age x cognitive load [Reading Only]				23.946	10.248	**< 2 × 10^{-16}**	*
	surprisal x age x cognitive load [1-back]				2.874	2.017	**3.616 × 10^{-2}**	*
	surprisal x age x cognitive load [2-back]				2.392	4.877	**2.375 × 10^{-2}**	*
Random Effects	Cognitive load I ID				255.250	508.610	**< 2 × 10^{-16}**	*
	Text Nr.				4053.220	7.840	**< 2 × 10^{-16}**	*
	Word				1.870	804.600	**< 2 × 10^{-16}**	*
	Colour				12.530	2.770	**< 2 × 10^{-16}**	*
Model Fit	R^2	0.815						

Note. p-values were computed using Wald's approximation as implemented in the package mgcv. Results that are significant on an alpha-level of 0.05 are marked with a star. Edf: Effective degrees of freedom.