

Additional Statistics Supporting Experimental Validation

The tables provide the p-values of the Pearson correlations between the chat conversations (exciting, shocking, rude, and confusing) based on the self-reports (SAM, four basic emotions, and stress).

For the SAM, we calculated the mean of the values per participant and chat conversation.

For the four basic emotions and stress, we added the times that participants reported a specific basic emotion or stress during each of the conversations.

Values in bold represent statistical significant correlations after Bonferroni correction.

Bonferroni correction for SAM (valence, arousal, dominance): $\alpha = 0.003$ (18 comparisons)

Valence

	Exciting	Shocking	Rude	Confusing
Exciting		< 0.001	< 0.001	< 0.001
Shocking	< 0.001		< 0.001	< 0.001
Rude	< 0.001	< 0.001		0.108
Confusing	< 0.001	< 0.001	0.108	

Dominance

	Exciting	Shocking	Rude	Confusing
Exciting		< 0.001	0.003	< 0.001
Shocking	< 0.001		0.231	0.834
Rude	0.003	0.231		0.495
Confusing	< 0.001	0.834	0.495	

Arousal

	Exciting	Shocking	Rude	Confusing
Exciting		0.369	0.964	0.066
Shocking	0.369		0.718	< 0.001
Rude	0.964	0.718		0.082
Confusing	0.066	< 0.001	0.082	

Bonferroni correction for 4 basic emotions and stress: $\alpha = 0.002$ (30 comparisons)

Anger				
	Exciting	Shocking	Rude	Confusing
Exciting		< 0.001	< 0.001	0.22
Shocking	< 0.001		0.004	< 0.001
Rude	< 0.001	0.004		0.007
Confusing	0.22	< 0.001	0.007	

Happiness				
	Exciting	Shocking	Rude	Confusing
Exciting		< 0.001	< 0.001	< 0.001
Shocking	< 0.001		0.015	0.006
Rude	< 0.001	0.015		0.92
Confusing	< 0.001	0.006	0.92	

Sadness				
	Exciting	Shocking	Rude	Confusing
Exciting		< .002	0.339	0.693
Shocking	< .002		< 0.001	< 0.001
Rude	0.339	< 0.001		0.192
Confusing	0.693	< 0.001	0.192	

Surprise				
	Exciting	Shocking	Rude	Confusing
Exciting		0.068	0.111	< 0.001
Shocking	0.068		0.944	0.014
Rude	0.111	0.944		0.021
Confusing	< 0.001	0.014	0.021	

Stress				
	Exciting	Shocking	Rude	Confusing
Exciting		0.022	< 0.001	0.022
Shocking	0.022		0.057	0.972
Rude	< 0.001	0.057		0.065
Confusing	0.022	0.972	0.065	