

**Table 1. Mean Proportion (%) of Human Observers' Responses (Hits and Confusions, and Hit Reaction Times) for each Target (Stimulus) Expression.**

	Expression Response											
Expression Stimulus	Happiness		Surprise		Anger		Sadness		Disgust		Fear	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Happiness	<b>98.5<sup>a</sup></b>	3.73	1.0 <sup>b</sup>	3.54	0.0 <sup>b</sup>	0.16	0.0 <sup>b</sup>	0.16	0.3 <sup>b</sup>	0.60	0.2 <sup>b</sup>	0.35
Surprise	2.8 <sup>b</sup>	5.44	<b>93.7<sup>a</sup></b>	6.47	0.1 <sup>c</sup>	0.35	0.0 <sup>c</sup>	0.16	0.2 <sup>c</sup>	0.44	3.2 <sup>b</sup>	4.97
Anger	0.2 <sup>c</sup>	0.63	0.8 <sup>bc</sup>	1.61	<b>91.7<sup>a</sup></b>	9.99	1.3 <sup>bc</sup>	2.18	3.6 <sup>b</sup>	7.04	2.4 <sup>b</sup>	3.03
Sadness	0.5 <sup>c</sup>	2.81	0.7 <sup>c</sup>	1.26	1.8 <sup>c</sup>	3.10	<b>80.7<sup>a</sup></b>	16.87	5.7 <sup>b</sup>	9.67	10.6 <sup>b</sup>	8.34
Disgust	0.1 <sup>d</sup>	0.28	0.5 <sup>d</sup>	0.88	13.4 <sup>b</sup>	16.90	4.7 <sup>bc</sup>	9.64	<b>77.8<sup>a</sup></b>	19.94	3.5 <sup>c</sup>	5.42
Fear	0.8 <sup>d</sup>	2.35	18.5 <sup>b</sup>	14.68	1.1 <sup>d</sup>	1.94	2.5 <sup>d</sup>	3.43	8.5 <sup>c</sup>	8.85	<b>68.6<sup>a</sup></b>	11.10
Hits	98.5 <sup>a</sup>	3.73	93.7 <sup>a</sup>	6.47	91.7 <sup>a</sup>	9.99	80.7 <sup>b</sup>	16.87	77.8 <sup>b</sup>	19.94	68.6 <sup>c</sup>	11.10
Hit RTs	868 <sup>a</sup>	85.84	1,061 <sup>b</sup>	107.51	1,140 <sup>b</sup>	98.18	1,253 <sup>c</sup>	158.56	1,229 <sup>c</sup>	195.50	1,431 <sup>d</sup>	181.66

*Note.* Within each expression stimulus category (horizontally), scores with different letters across expression response (i.e., on the same line) are significantly different in post hoc multiple contrasts ( $p < .05$ , Bonferroni corrected); expressions sharing a letter are equivalent. Boldface for hits in columns.

**Table 2. Mean Raw Evidence Scores (Odds Ratios) of each Expression (Response) for each Target (Stimulus) Expression, as Computed by Emotient FACET Automated Analysis.**

	Expression Response													
Expression Stimulus	Happiness		Surprise		Anger		Sadness		Disgust		Fear		Neutral	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Happiness	<b>6.4<sup>a</sup></b>	1.35	-8.6 <sup>e</sup>	2.01	-7.7 <sup>d</sup>	1.53	-9.2 <sup>e</sup>	1.56	-5.4 <sup>c</sup>	1.51	-3.9 <sup>b</sup>	1.25	-11.9 <sup>f</sup>	2.70
Surprise	-5.6 <sup>d</sup>	2.76	<b>3.5<sup>a</sup></b>	1.70	-3.9 <sup>c</sup>	1.49	-6.1 <sup>d</sup>	1.93	-4.5 <sup>c</sup>	1.90	0.8 <sup>b</sup>	1.87	-4.8 <sup>cd</sup>	2.78
Anger	-6.3 <sup>e</sup>	2.13	-4.8 <sup>d</sup>	1.61	<b>1.7<sup>a</sup></b>	1.56	-2.8 <sup>c</sup>	2.15	-0.4 <sup>b</sup>	2.53	-2.8 <sup>c</sup>	1.23	-2.6 <sup>bc</sup>	2.88
Sadness	-4.6 <sup>e</sup>	2.67	-4.1 <sup>e</sup>	1.48	-2.3 <sup>d</sup>	1.73	<b>1.7<sup>a</sup></b>	1.52	-1.3 <sup>c</sup>	1.72	-0.2 <sup>b</sup>	1.02	-2.2 <sup>cd</sup>	1.54
Disgust	-5.4 <sup>d</sup>	2.18	-8.2 <sup>e</sup>	2.09	-1.6 <sup>b</sup>	1.17	-5.7 <sup>d</sup>	2.61	<b>4.2<sup>a</sup></b>	1.81	-3.8 <sup>c</sup>	1.33	-8.2 <sup>e</sup>	3.11
Fear	-4.0 <sup>d</sup>	3.19	-1.3 <sup>b</sup>	2.36	-2.9 <sup>cd</sup>	2.13	-3.1 <sup>cd</sup>	2.08	-2.1 <sup>bc</sup>	2.27	<b>1.6<sup>a</sup></b>	1.10	-4.4 <sup>de</sup>	3.05
Target	6.4 <sup>a</sup>	1.35	3.5 <sup>b</sup>	1.70	1.7 <sup>c</sup>	1.56	1.7 <sup>c</sup>	1.52	4.2 <sup>b</sup>	1.81	1.6 <sup>c</sup>	1.10		

*Note.* Within each expression stimulus category (horizontally), scores with different letters across expression response (i.e., on the same line) are significantly different in post hoc multiple contrasts ( $p < .05$ , Bonferroni corrected); expressions sharing a letter are equivalent. Boldface for correct responses to target (stimulus) expressions. Target: correct classification of each stimulus.

**Table 3. Mean Raw Evidence Scores (Odds Ratios) of Action Units (AUs) for each Expression (100% Expressive Intensity), as Computed by Emotient FACET Automated Analysis.**

Action Units		Expressive Category											
		Happiness		Surprise		Anger		Sadness		Disgust		Fear	
		<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
AU1	inner brow raiser	-1.11	0.74	<b>1.51</b>	1.18	-1.76	0.54	<b>1.38</b>	1.55	-2.23	0.80	<b>1.58</b>	1.62
AU2	outer brow raiser	-0.71	0.66	<b>1.93</b>	1.01	-1.75	0.50	-0.15	0.79	-1.60	0.51	0.71	1.16
AU4	brow lowerer	-1.65	0.49	-1.08	0.47	<b>1.86</b>	0.94	<b>1.55</b>	0.86	<b>1.70</b>	0.74	0.92	1.01
AU5	upper lid raiser	-1.41	0.73	<b>1.99</b>	0.96	0.31	0.66	-0.19	0.49	-0.97	0.64	<b>1.26</b>	1.06
AU6	cheek raiser	<b>2.88</b>	0.91	-2.32	0.96	-0.24	0.92	-0.28	1.11	<b>1.02</b>	0.86	-0.72	1.11
AU7	lid tightener	0.43	0.52	-1.10	0.64	<b>0.89</b>	0.59	0.09	0.80	<b>1.28</b>	0.63	-0.15	0.63
AU9	nose wrinkle	-2.49	1.02	-5.22	1.26	0.19	1.98	-2.45	1.70	<b>3.48</b>	1.65	-3.25	2.10
AU10	upper lip raiser	-0.40	0.44	-1.79	0.98	0.43	1.81	-0.17	1.36	<b>3.55</b>	1.30	-0.34	1.37
AU12	lip corner puller	<b>4.06</b>	0.94	-1.60	0.90	-1.80	0.74	-1.04	1.07	-1.29	1.07	-0.76	1.11
AU14	dimpler	-1.73	0.61	-2.62	0.93	-1.94	1.07	-1.37	0.71	-3.58	1.05	-1.88	0.72
AU15	lip corner depressor	-1.98	0.56	-1.87	0.69	-0.99	1.08	<b>0.98</b>	1.12	0.16	0.94	-1.22	0.70
AU17	chin raiser	-1.79	0.53	-2.53	0.66	-0.31	1.14	0.25	1.11	0.49	1.06	-2.02	0.53
AU18	lip puckerer	-9.79	1.94	-3.04	0.81	-1.69	1.84	-2.08	1.07	-4.97	1.91	-3.83	1.91
AU20	lip stretcher	-0.23	0.44	-0.74	0.73	-1.48	0.88	-0.08	1.07	-0.07	0.83	0.37	0.97
AU23	lip tightener	-1.58	0.48	-1.13	0.53	-0.23	0.73	-0.80	0.51	-0.89	0.60	-1.09	0.56
AU24	lip pressor	-2.89	0.87	-3.38	0.85	-1.07	1.30	-0.97	0.49	-2.54	1.29	-2.77	0.91
AU25	lips part	<b>2.07</b>	0.89	<b>2.58</b>	1.13	-1.41	1.80	-1.31	1.04	0.94	1.56	<b>1.48</b>	1.25
AU26	jaw drop	-0.05	0.54	<b>2.27</b>	1.55	-2.44	0.83	-1.76	0.58	-1.82	0.60	0.02	1.15
AU28	lip suck	-3.42	0.75	-4.84	1.62	-3.80	1.69	-2.99	1.07	-6.07	1.64	-3.54	1.16
AU43	eyes closed	-3.45	0.79	-0.96	0.81	-1.20	0.71	-1.47	0.66	-0.99	0.56	-1.33	1.06

*Note.* Boldface: AU evidence scores for emotional faces significantly higher than those for neutral faces *and* above 0. They represent the AUs specifically associated with each expression.