

Performance (STRESS values) for Visual Threshold Colour Difference data (VTCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65, P40)									
	Colour difference $\Delta E^*_{\text{CIELAB}}$					Colour difference formula and <i>STRESS</i> value				
Name	Pairs	ΔE^*_{ab} range	min	max	mean	CIELAB ΔE^*_{ab}	CMC ΔE^*_{CM}	CIE94 ΔE^*_{94}	CIEDE2000 ΔE^*_{00}	LABJND ΔE^*_{85}
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	51.2	47.7	52.3	30.2
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	56.0	49.8	49.8	48.6
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	32.7	47.4	43.9	53.6
RI_0330	224	0.0 to <1.0	0.05	0.99	0.55	47.0	54.1	50.1	58.2	28.1
KI_0392	375	0.0 to <1.0	0.09	0.99	0.37	47.7	51.2	44.8	45.2	44.8
AV_0132	97	0.0 to <1.0	0.17	0.96	0.56	36.8	26.6	30.4	38.5	48.1
RI_0330	305	0.0 to <2.0	0.05	1.89	0.74	49.1	52.8	48.9	54.0	30.2
KI_0392	391	0.0 to <2.0	0.09	1.76	0.41	55.9	56.0	49.9	49.9	48.6
AV_0132	130	0.0 to <2.0	0.17	1.96	0.73	45.5	32.5	42.2	44.0	52.8
RI_0330	87	0.0 to <0.5	0.05	0.49	0.23	50.8	56.8	50.4	61.5	29.1
KI_0392	294	0.0 to <0.5	0.09	0.49	0.28	31.3	38.8	30.4	35.5	36.8
AV_0132	41	0.0 to <0.5	0.17	0.49	0.34	28.3	27.3	27.7	37.9	40.3
RI_0330	137	0.5 to <1.0	0.5	0.99	0.76	18.8	36.9	29.9	38.3	21.8
KI_0392	81	0.5 to <1.0	0.5	0.99	0.7	19.9	35.9	24.9	30.3	26.3
AV_0132	56	0.5 to <1.0	0.5	0.96	0.71	19.5	18.8	15.9	26.4	39.7
RI_0330	67	1.0 to <1.5	1.01	1.46	1.18	9.7	42.0	35.5	39.3	22.3
KI_0392	12	1.0 to <1.5	1.0	1.48	1.22	12.6	47.7	36.1	48.5	29.6
AV_0132	28	1.0 to <1.5	1.0	1.47	1.17	12.7	24.7	22.8	21.5	56.5
RI_0330	14	1.5 to <2.0	1.5	1.89	1.69	7.5	44.3	35.3	35.1	16.2
KI_0392	4	1.5 to <2.0	1.61	1.76	1.67	3.3	25.8	16.9	27.2	49.6
AV_0132	5	1.5 to <2.0	1.51	1.96	1.7	10.2	15.9	23.5	10.5	56.1

data sets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS

Performance (STRESS values) for Visual Threshold Colour Difference data (VTCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65, P40)									
	Colour difference $\Delta E^*_{\text{CIEDE2000}}$					Colour difference formula and STRESS value				
Name	Pairs	ΔE^*_{C00} range	min	max	mean	CIELAB ΔE^*	CMC ΔE^*	CIE94 ΔE^*	CIEDE2000 ΔE^*	LABJND ΔE^*
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	51.2	47.7	52.3	30.2
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	56.0	49.8	49.8	48.6
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	32.7	47.4	43.9	53.6
RI_0330	273	0.0 to <1.0	0.05	3.78	0.84	62.0	49.8	47.5	51.8	31.1
KI_0392	389	0.0 to <1.0	0.09	2.09	0.41	56.2	51.5	46.3	45.5	47.9
AV_0132	120	0.0 to <1.0	0.17	2.29	0.7	47.9	28.8	47.6	40.8	51.4
RI_0330	330	0.0 to <2.0	0.05	4.85	0.9	61.0	51.2	47.7	52.3	30.2
KI_0392	392	0.0 to <2.0	0.09	2.09	0.41	57.1	56.0	49.8	49.8	48.6
AV_0132	132	0.0 to <2.0	0.17	2.29	0.75	47.8	32.7	47.4	43.9	53.6
RI_0330	144	0.0 to <0.5	0.05	1.54	0.49	60.9	46.5	45.8	49.6	34.6
KI_0392	343	0.0 to <0.5	0.09	2.09	0.35	54.1	42.4	39.8	36.0	48.3
AV_0132	71	0.0 to <0.5	0.17	0.96	0.5	39.8	28.1	28.7	30.1	42.3
RI_0330	129	0.5 to <1.0	0.49	3.78	1.23	49.3	21.8	18.7	18.3	24.5
KI_0392	46	0.5 to <1.0	0.41	1.76	0.8	34.4	23.6	16.5	18.1	27.4
AV_0132	49	0.5 to <1.0	0.49	2.29	0.99	36.1	23.6	41.4	19.3	53.5
RI_0330	54	1.0 to <1.5	0.69	4.85	1.17	55.0	18.4	17.4	8.3	24.2
KI_0392	2	1.0 to <1.5	1.13	1.63	1.38	17.7	5.5	8.3	10.0	23.2
AV_0132	12	1.0 to <1.5	1.03	1.96	1.29	21.4	16.9	10.6	5.6	66.8
RI_0330	3	1.5 to <2.0	1.13	1.75	1.41	17.9	19.0	21.2	3.1	36.8
KI_0392	1	1.5 to <2.0	1.39	1.39	1.39	0.1	0.1	0.1	0.1	0.1
AV_0132	0									

data sets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS

Performance (STRESS values) for Visual Threshold Colour Difference data (VTCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65, P40)									
	Colour difference ΔE^*_{LABJND}					Colour difference formula and STRESS value				
Name	Pairs	ΔE^*_{C85} range	min	max	mean	CIELAB ΔE^*	CMC ΔE^*	CIE94 ΔE^*	CIEDE2000 ΔE^*	LABJND ΔE^*
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	51.2	47.7	52.3	30.2
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	56.0	49.8	49.8	48.6
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	32.7	47.4	43.9	53.6
RI_0330	22	0.0 to <1.0	0.05	0.8	0.15	71.7	62.4	46.9	48.3	16.5
KI_0392	109	0.0 to <1.0	0.09	0.51	0.25	28.7	27.5	23.8	27.1	23.8
AV_0132	3	0.0 to <1.0	0.49	0.54	0.51	3.9	4.9	4.4	4.5	0.1
RI_0330	201	0.0 to <2.0	0.05	4.85	0.66	63.7	57.3	54.5	58.7	22.5
KI_0392	297	0.0 to <2.0	0.09	2.09	0.31	51.0	47.7	38.6	42.9	34.7
AV_0132	32	0.0 to <2.0	0.17	1.18	0.52	53.3	48.3	51.9	52.7	19.6
RI_0330	0	0.0 to <0.5	0.09	0.25	0.16	22.6	24.1	23.3	23.5	9.6
KI_0392	20									
AV_0132	0									
RI_0330	22	0.5 to <1.0	0.05	0.8	0.15	71.7	62.4	46.9	48.3	16.5
KI_0392	89	0.5 to <1.0	0.14	0.51	0.27	24.6	27.6	22.2	27.4	17.5
AV_0132	3	0.5 to <1.0	0.49	0.54	0.51	3.9	4.9	4.4	4.5	0.1
RI_0330	70	1.0 to <1.5	0.09	1.54	0.48	53.4	55.5	53.3	61.6	9.5
KI_0392	107	1.0 to <1.5	0.16	2.09	0.32	58.6	45.1	31.7	41.6	10.8
AV_0132	9	1.0 to <1.5	0.22	0.68	0.42	40.4	29.8	36.0	43.9	8.6
RI_0330	109	1.5 to <2.0	0.14	4.85	0.87	56.9	49.0	45.3	48.3	8.2
KI_0392	81	1.5 to <2.0	0.16	1.2	0.37	44.9	52.0	41.7	49.5	8.9
AV_0132	20	1.5 to <2.0	0.17	1.18	0.57	56.1	51.3	55.2	58.3	7.3

data sets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS