

ELCD data set: RS_ER192 of BAM-1985 colour scaling experiments

This output includes the following text and numerical data:

1000*CIEXYZ & 1000*DV data for all colours (a) of all colour difference data pairs

3 step series (triplet): B-Z-Y, colour difference in ELCD range, Pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0014496	0016680	0024815	0015482	0017170	0015850	0004200	%88000001
0090383	0100000	0087548	0015482	0017170	0015850	0016917	0017840	0001436	0010800	%88000002

3 step series (triplet): B-Z-Y, colour difference in ELCD range, Interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0014496	0016680	0024815	0015482	0017170	0015850	0006000	%88000017
0090383	0100000	0087548	0015482	0017170	0015850	0016917	0017840	0001436	0009000	%88000018

6 step series: B-Z, colour difference in LCD range, pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0014496	0016680	0024816	0014490	0016550	0022193	0000840	%88000033
0090384	0100000	0087549	0014490	0016550	0022193	0014838	0016910	0020719	0000840	%88000034
0090384	0100000	0087549	0014838	0016910	0020719	0015256	0017230	0019885	0000840	%88000035
0090384	0100000	0087549	0015256	0017230	0019885	0015433	0017340	0018911	0000840	%88000036
0090384	0100000	0087549	0015433	0017340	0018911	0015482	0017170	0015851	0000840	%88000037

6 step series: B-Z, colour difference in LCD range, interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0014496	0016680	0024816	0014490	0016550	0022193	0001200	%88000113
0090384	0100000	0087549	0014490	0016550	0022193	0014838	0016910	0020719	0001200	%88000114
0090384	0100000	0087549	0014838	0016910	0020719	0015256	0017230	0019885	0001200	%88000115
0090384	0100000	0087549	0015256	0017230	0019885	0015433	0017340	0018911	0001200	%88000116
0090384	0100000	0087549	0015433	0017340	0018911	0015482	0017170	0015851	0001200	%88000117

If the decimal comma for the CIEXYZ and DV* data is considered, then for example

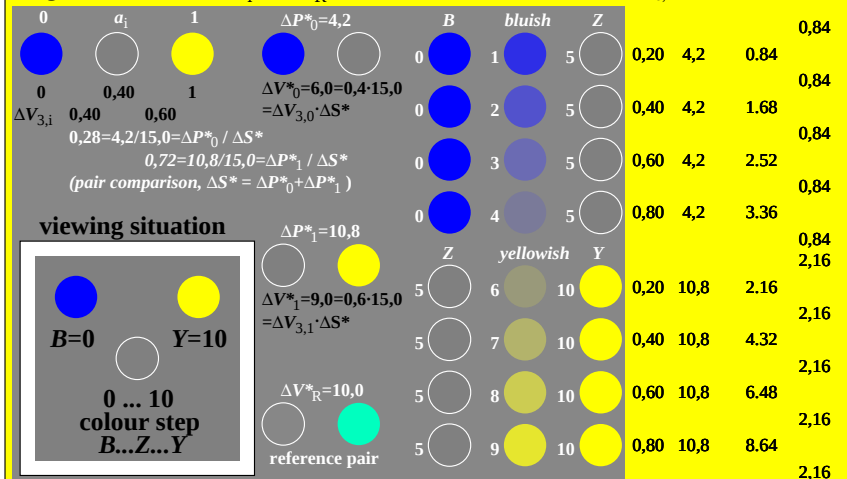
X0=14,496 and DV*=4,200

1-000030-L0

XE100-3N

Relative and scaled visual differences; triplets and pairs; separate colours

relative visual scale $\Delta V_{3,i}$ ($i=0,1$) range 0 to 1
pair comparison (P) to grey - turquoise $\Delta P^*_i : \Delta V^*_R = 10$
relative visual scale between B-Z and Z-Y
scaled visual data $\Delta V^*_i = \Delta V_{6,i} \cdot \Delta P^*_i$ ($i=0,4$)
 $\Delta V_{6,i} \Delta P^*_i \Delta V^*_i \Delta V^*_{R_i}$



2 experiments of 5 observers

slider to adjust the sample

1-000030-L0

XE100-7N

TUB-test chart XE10; relative and scaled differences
colour triplets and colour pairs; separate and adjacent colours; blue - yellow series

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3 step series (triplet): B-Z-Y, colour difference in ELCD range, Pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0014496	0016680	0024815	0015482	0017170	0015850	0004200	%88000001
0090383	0100000	0087548	0015482	0017170	0015850	0016917	0017840	0001436	0010800	%88000002

3 step series (triplet): B-Z-Y, colour difference in ELCD range, Interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0014496	0016680	0024815	0015482	0017170	0015850	0006000	%88000017
0090383	0100000	0087548	0015482	0017170	0015850	0016917	0017840	0001436	0009000	%88000018

6 step series: Z-Y, colour difference in LCD range, pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015482	0017170	0015851	0014820	0016070	0010915	0002160	%88000038
0090384	0100000	0087549	0014820	0016070	0010915	0015700	0016680	0006988	0002160	%88000039
0090384	0100000	0087549	0015700	0016680	0006988	0016529	0017350	0004840	0002160	%88000040
0090384	0100000	0087549	0016529	0017350	0004840	0016742	0017470	0003882	0002160	%88000041
0090384	0100000	0087549	0016742	0017470	0003882	0016917	0017840	0001437	0002160	%88000042

6 step series: Z-Y, colour difference in LCD range, interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015482	0017170	0015851	0014820	0016070	0010915	0001800	%88000118
0090384	0100000	0087549	0014820	0016070	0010915	0015700	0016680	0006988	0001800	%88000119
0090384	0100000	0087549	0015700	0016680	0006988	0016529	0017350	0004840	0001800	%88000120
0090384	0100000	0087549	0016529	0017350	0004840	0016742	0017470	0003882	0001800	%88000121
0090384	0100000	0087549	0016742	0017470	0003882	0016917	0017840	0001437	0001800	%88000122

If the decimal comma for the CIEXYZ and DV* data is considered, then for example

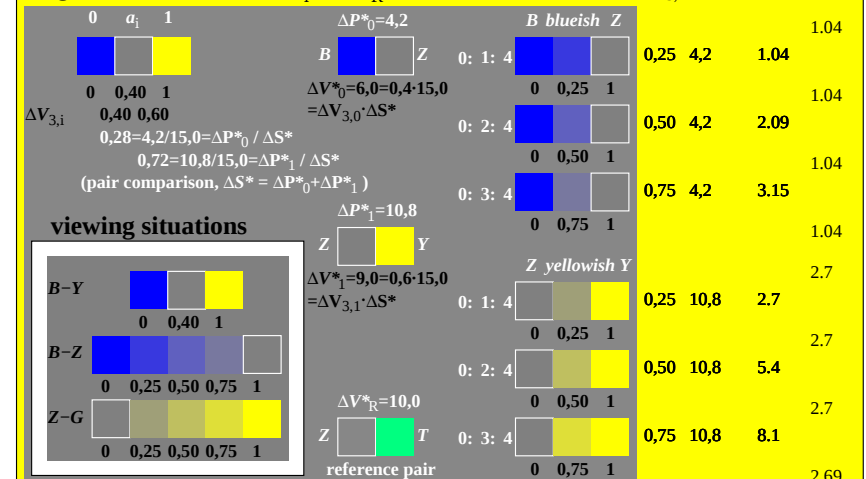
X0=14,496 and DV*=4,200

1-000030-L0

XE100-3R

Relative and scaled visual differences; triplets and pairs; adjacent colours

relative visual scale $\Delta V_{3,i}$ ($i=0,1$) range 0 to 1
pair comparison (P) to grey - turquoise $\Delta P^*_i : \Delta V^*_R = 10$
relative visual scale between B-Z and Z-Y
scaled visual data $\Delta V^*_i = \Delta V_{5,i} \cdot \Delta P^*_i$ ($i=0,3$)
 $\Delta V_{5,i} \Delta P^*_i \Delta V^*_i \Delta V^*_{R_i}$



2 experiments of 30 observers

assumption: equal visual steps

1-000030-L0

XE101-7N

input: w/rgb/cmyk -> w/rgb/cmyk-