

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): N-Z-W, colour difference in ELCD range, Pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	%88000011
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0016700	%88000012

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0006510	%88000027
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0015190	%88000028

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0025352	0028210	0027642	0022904	0025500	0025125	0001000	%88000083
0090384	0100000	0087549	0022904	0025500	0025125	0020345	0022730	0022448	0001000	%88000084
0090384	0100000	0087549	0020345	0022730	0022448	0019304	0021510	0021498	0001000	%88000085
0090384	0100000	0087549	0019304	0021510	0021498	0018158	0020250	0020356	0001000	%88000086
0090384	0100000	0087549	0018158	0020250	0020356	0015325	0017100	0017444	0001000	%88000087

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0025352	0028210	0027642	0022904	0025500	0025125	0001302	%88000163
0090384	0100000	0087549	0022904	0025500	0025125	0020345	0022730	0022448	0001302	%88000164
0090384	0100000	0087549	0020345	0022730	0022448	0019304	0021510	0021498	0001302	%88000165
0090384	0100000	0087549	0019304	0021510	0021498	0018158	0020250	0020356	0001302	%88000166
0090384	0100000	0087549	0018158	0020250	0020356	0015325	0017100	0017444	0001302	%88000167

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

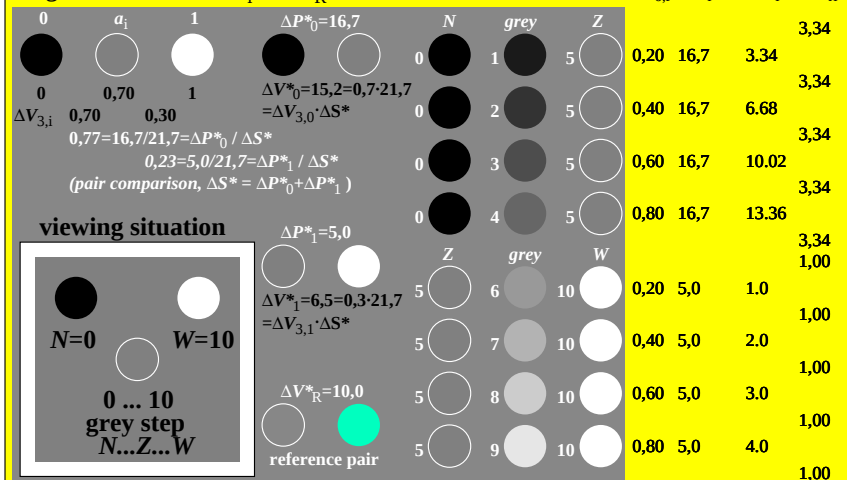
X0=25,351 and DV*=5,000

1-000030-L0

XE080-3N

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 N-Z and Z-W
scaled visual data $\Delta V^*_i = \Delta V_{3,i} \cdot \Delta P^*_i$ ($i=0,4$)
 $\Delta V_{3,i}$ ΔP^*_i ΔV^*_i ΔV^*_R



2 experiments of 5 observers

slider to adjust the sample

1-000030-L0

XE080-7N

TUB-test chart XE08; relative and scaled differences
colour triplets and colour pairs; separate and adjacent colours; achromatic series

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	%88000011
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0016700	%88000012

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0006510	%88000027
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0015190	%88000028

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015325	0017100	0017444	0011119	0012410	0012939	0003340	%88000088
0090384	0100000	0087549	0011119	0012410	0012939	0007797	0008710	0009201	0003340	%88000089
0090384	0100000	0087549	0007797	0008710	0009201	0004664	0005210	0005504	0003340	%88000090
0090384	0100000	0087549	0004664	0005210	0005504	0002722	0003040	0003134	0003340	%88000091
0090384	0100000	0087549	0002722	0003040	0003134	0001055	0001170	0001110	0003340	%88000092

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

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015325	0017100	0017444	0011119	0012410	0012939	0003038	%88000168
0090384	0100000	0087549	0011119	0012410	0012939	0007797	0008710	0009201	0003038	%88000169
0090384	0100000	0087549	0007797	0008710	0009201	0004664	0005210	0005504	0003038	%88000170
0090384	0100000	0087549	0004664	0005210	0005504	0002722	0003040	0003134	0003038	%88000171
0090384	0100000	0087549	0002722	0003040	0003134	0001055	0001170	0001110	0003038	%88000172

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

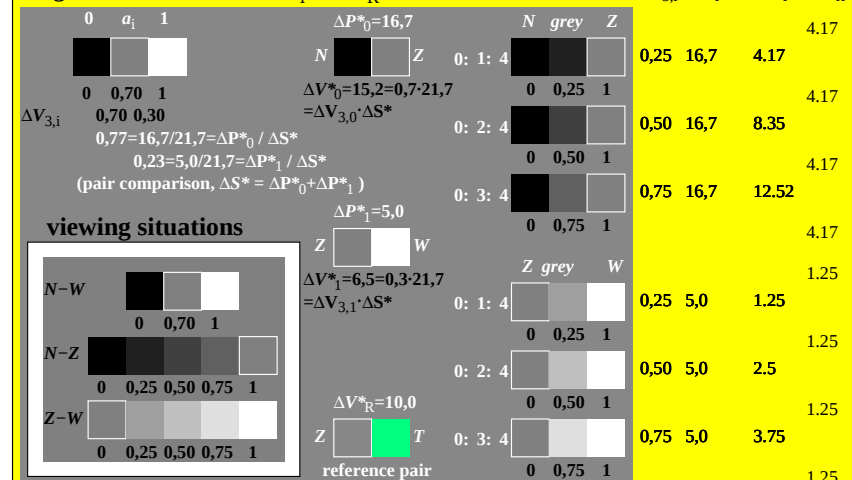
X0=25,351 and DV*=5,000

1-000030-L0

XE080-3R

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 N-Z and Z-W $\Delta V^*_i = \Delta V_{3,i} \cdot \Delta P^*_i$ ($i=0,3$)
 $\Delta V_{3,i}$ ΔP^*_i ΔV^*_i ΔV^*_R



2 experiments of 30 observers

assumption: equal visual steps

1-000030-L0

XE081-7N

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