

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): $T-Z-P$ ($G-Z-R$), colour difference in ELCD range, Pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0005179	0014220	0016997	0014570	0016040	0014458	0010000	%88000007
0090383	0100000	0087548	0014570	0016040	0014458	0036354	0016650	0021492	0022200	%88000008

3 step series (triplet): $T-Z-P$ ($G-Z-R$), colour difference in ELCD range, Interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0005179	0014220	0016997	0014570	0016040	0014458	0011270	%88000023
0090383	0100000	0087548	0014570	0016040	0014458	0036354	0016650	0021492	0020930	%88000024

6 step series: $T-Z$ ($G-Z$), colour difference in LCD range, pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0005179	0014220	0016997	0007348	0014600	0016341	0002000	%88000063
0090384	0100000	0087549	0007348	0014600	0016341	0008533	0014910	0016117	0002000	%88000064
0090384	0100000	0087549	0008533	0014910	0016117	0011397	0015810	0015801	0002000	%88000065
0090384	0100000	0087549	0011397	0015810	0015801	0013288	0016480	0015707	0002000	%88000066
0090384	0100000	0087549	0013288	0016480	0015707	0014571	0016040	0014458	0002000	%88000067

6 step series: $T-Z$ ($G-Z$), colour difference in LCD range, interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0005179	0014220	0016997	0007348	0014600	0016341	0002254	%88000143
0090384	0100000	0087549	0007348	0014600	0016341	0008533	0014910	0016117	0002254	%88000144
0090384	0100000	0087549	0008533	0014910	0016117	0011397	0015810	0015801	0002254	%88000145
0090384	0100000	0087549	0011397	0015810	0015801	0013288	0016480	0015707	0002254	%88000146
0090384	0100000	0087549	0013288	0016480	0015707	0014571	0016040	0014458	0002254	%88000147

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

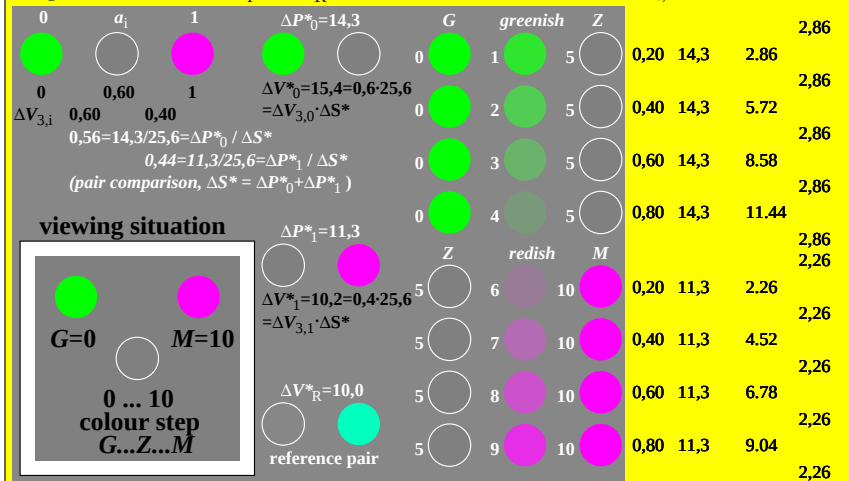
X0=6,419 and DV*=14,300

1-000030-L0

XE090-3N

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 G_Z and Z_M
scaled visual data $\Delta V^*_i = \Delta V_{6,i} \cdot \Delta P^*_i$ ($i=0,4$)
 $\Delta V_{6,i}$ ΔP^*_i ΔV^*_i $\Delta V^*_{R_i}$



2 experiments of 5 observers

slider to adjust the sample

1-000030-L0

XE090-7N

TUB-test chart XE09; relative and scaled differences
colour triplets and colour pairs; separate and adjacent colours; green - red series

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Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0005179	0014220	0016997	0014570	0016040	0014458	0010000	%88000007
0090383	0100000	0087548	0014570	0016040	0014458	0036354	0016650	0021492	0022200	%88000008

3 step series (triplet): $T-Z-P$ ($G-Z-R$), colour difference in ELCD range, Interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0005179	0014220	0016997	0014570	0016040	0014458	0011270	%88000023
0090383	0100000	0087548	0014570	0016040	0014458	0036354	0016650	0021492	0020930	%88000024

6 step series: $Z-P$ ($Z-R$), colour difference in LCD range, pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0014571	0016040	0014458	0020726	0015610	0015766	0004440	%88000068
0090384	0100000	0087549	0020726	0015610	0015766	0024030	0015670	0016748	0004440	%88000069
0090384	0100000	0087549	0024030	0015670	0016748	0028914	0015990	0018448	0004440	%88000070
0090384	0100000	0087549	0028914	0015990	0018448	0031544	0016260	0019497	0004440	%88000071
0090384	0100000	0087549	0031544	0016260	0019497	0036354	0016650	0021492	0004440	%88000072

6 step series: $Z-P$ ($Z-R$), colour difference in LCD range, interval + pair comparison

Xn	Yn	Zn	X0	Y0	Z0	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0014571	0016040	0014458	0020726	0015610	0015766	0004186	%88000148
0090384	0100000	0087549	0020726	0015610	0015766	0024030	0015670	0016748	0004186	%88000149
0090384	0100000	0087549	0024030	0015670	0016748	0028914	0015990	0018448	0004186	%88000150
0090384	0100000	0087549	0028914	0015990	0018448	0031544	0016260	0019497	0004186	%88000151
0090384	0100000	0087549	0031544	0016260	0019497	0036354	0016650	0021492	0004186	%88000152

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

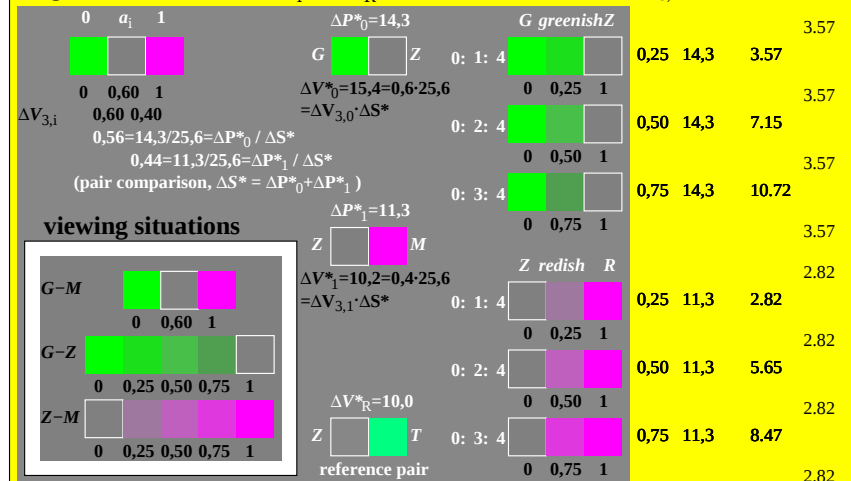
X0=6,419 and DV*=14,300

1-000030-L0

XE090-3R

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 G_Z and Z_M
scaled visual data $\Delta V^*_i = \Delta V_{5,i} \cdot \Delta P^*_i$ ($i=0,3$)
 $\Delta V_{5,i}$ ΔP^*_i ΔV^*_i $\Delta V^*_{R_i}$



2 experiments of 30 observers

assumption: equal visual steps

1-000030-L0

XE091-7N

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