

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	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	X80000011
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0016700	X80000012

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

Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	X80000027
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0015100	X80000028

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

Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0025352	0028211	0027642	0022904	0025500	0025125	0001000	X80000003
0090384	0100000	0087549	0022904	0025500	0025125	0020345	0022738	0022448	0001000	X80000004
0090384	0100000	0087549	0020345	0022738	0022448	0019304	0021510	0021498	0001000	X80000005
0090384	0100000	0087549	0019304	0021510	0021498	0018158	0020256	0020356	0001000	X80000006
0090384	0100000	0087549	0018158	0020256	0020356	0017100	0017444	0001000	00000007	

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

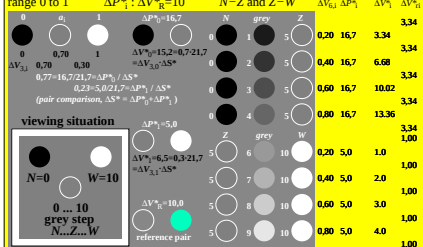
Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0025352	0028211	0027642	0022904	0025500	0025125	0001302	X800000163
0090384	0100000	0087549	0022904	0025500	0025125	0020345	0022738	0022448	0001302	X800000164
0090384	0100000	0087549	0020345	0022738	0022448	0019304	0021510	0021498	0001302	X800000165
0090384	0100000	0087549	0019304	0021510	0021498	0018158	0020256	0020356	0001302	X800000166
0090384	0100000	0087549	0018158	0020256	0020356	0015325	0017100	0017444	0001302	X800000167

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

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

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

relative visual scale $\Delta V_{3,1}$ (i=0,1)
 range 0 to 1
 pair comparison (P)
 to grey - turquoise
 $\Delta P^*_i : \Delta V^*_{R=10}$
 N-Z and Z-W
 scaled visual data
 $\Delta V^*_{3,1} = \Delta V^*_{3,1} \Delta P^*_i (i=0,4)$
 $\Delta V^*_{3,1} \Delta P^*_i$
 $\Delta V^*_{3,1} \Delta P^*_i$



2 experiments of 5 observers

slider to adjust the sample

1-000030-10

XE080-TN

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

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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	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	X80000011
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0016700	X80000012

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

Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090383	0100000	0087548	0025351	0028210	0027641	0015324	0017100	0017444	0005000	X80000027
0090383	0100000	0087548	0015324	0017100	0017444	0001055	0001170	0001109	0015100	X80000028

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

Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015325	0017100	0017444	0011119	0012410	0012939	0003340	X80000008
0090384	0100000	0087549	0011119	0012410	0012939	0007797	0008710	0009201	0003340	X80000009
0090384	0100000	0087549	0007797	0008710	0009201	0004664	0005210	0005504	0003340	X80000010
0090384	0100000	0087549	0004664	0005210	0005504	0002722	0003040	0003134	0003340	X80000011
0090384	0100000	0087549	0002722	0003040	0003134	0001055	0001170	0001110	0003340	X80000012

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

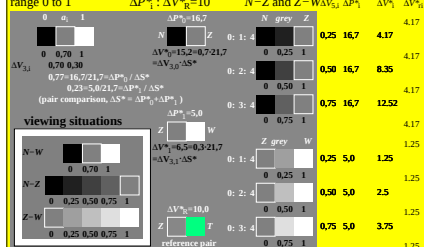
Xn	Yn	Zn	Xb	Yb	Zb	X1	Y1	Z1	DV*	No.
0090384	0100000	0087549	0015325	0017100	0017444	0011119	0012410	0012939	0003038	X800000168
0090384	0100000	0087549	0011119	0012410	0012939	0007797	0008710	0009201	0003038	X800000169
0090384	0100000	0087549	0007797	0008710	0009201	0004664	0005210	0005504	0003038	X800000170
0090384	0100000	0087549	0004664	0005210	0005504	0002722	0003040	0003134	0003038	X800000171
0090384	0100000	0087549	0002722	0003040	0003134	0001055	0001170	0001110	0003038	X800000172

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

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

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

relative visual scale $\Delta V_{3,1}$ (i=0,1)
 range 0 to 1
 pair comparison (P)
 to grey - turquoise
 $\Delta P^*_i : \Delta V^*_{R=10}$
 N-Z and Z-W
 scaled visual data
 $\Delta V^*_{3,1} = \Delta V^*_{3,1} \Delta P^*_i (i=0,3)$
 $\Delta V^*_{3,1} \Delta P^*_i$
 $\Delta V^*_{3,1} \Delta P^*_i$



2 experiments of 30 observers

assumption: equal visual steps

1-000030-10

XE080-TN

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

input: w/rbg/cmyk -> w/rbg/cmyk-