

Content of a file with the example SCD data set: WI_0418

see the following *PostScript* file

<http://130.149.60.45/~farbmetrik/WE94/WE940-7R.PS>

one can study the output of the corresponding PDF file

<http://130.149.60.45/~farbmetrik/WE94/WE940-7R.PDF>

the ASCII text output of the above PS and/or PDF file is in the file:

<http://130.149.60.45/~farbmetrik/WE94/WE940-7T.TXT>

This output includes the following text and numerical data:

1000*CIEXYZ & 100*dE* data for all colours (a) of 418 colour difference data pairs

XS	YS	ZS	X0	Y0	Z0	X1	Y1	Z1	DV
0094810	0100000	0107330	0062894	0069530	0030219	0062792	0069510	0029574	0000573
0094810	0100000	0107330	0062894	0069530	0030219	0062921	0069620	0028877	0000866

dE*ab	dE*CH	dE*94	dE*CM	dE*00	dE*85	NR	Code	L*	a*	b*
00094	00094	00030	00037	00030	00131	14000000	(14000_WI)	87	-6	46
00204	00204	00066	00082	00066	00280	14000001	(14000_WI)	87	-6	47

If the decimal comma for the CIEXYZ and CIELAB data is considered, then for example X0=62,894 and dE*ab=0,94.

1-000030-L0

WE990-3N

Content of a file with the example ECD data set: VR_0128

see the following *PostScript* file

<http://130.149.60.45/~farbmetrik/WE76/WE760-7R.PS>

one can study the output of the corresponding PDF file

<http://130.149.60.45/~farbmetrik/WE76/WE760-7R.PDF>

the ASCII text output of the above PS and/or PDF file is in the file:

<http://130.149.60.45/~farbmetrik/WE76/WE760-7T.TXT>

This output includes the following text and numerical data:

1000*CIEXYZ & 100*dE* data for all colours (a) of 128 colour difference data pairs

XS	YS	ZS	X0	Y0	Z0	X1	Y1	Z1	DV
0094841	0100000	0098118	0043056	0051427	0077363	0081861	0087159	0084853	0029073
0094841	0100000	0098118	0043056	0051427	0077363	0019335	0027473	0069806	0038003

dE*ab	dE*CH	dE*94	dE*CM	dE*00	dE*85	NR	Code	L*	a*	b*
03410	03410	02226	02411	02198	15598	11000000	(11000_VR)	86	-8	-12
03303	03303	02126	01807	01676	19357	11000001	(11000_VR)	68	-23	-36

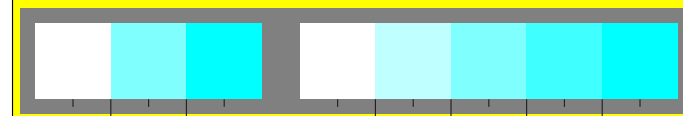
If the decimal comma for the CIEXYZ and CIELAB data is considered, then for example X0=43,056 and dE*ab=34,10.

1-000030-L0

WE990-7N

TUB-test chart WE99; Colour difference experiments
Example of data sets WI_04188 and VR_0128; visual relative and magnitude ratio scaling

Visual and colorimetric differences for relative colour scaling (3 and 5 steps)



ΔV_i : a-0 1-a b-0 c-b d-c 1-d
 $\Delta E^*_{ab,i}$: ΔE^*_{a-0} ΔE^*_{1-a} ΔE^*_{b-0} ΔE^*_{c-b} ΔE^*_{d-c} ΔE^*_{1-d}
 $\Delta S^*_3 = \Delta E^*_{ab,0} + \Delta E^*_{ab,1}$ $\Delta S^*_5 = \Delta E^*_{ab,0} + \Delta E^*_{ab,1} + \Delta E^*_{ab,3} + \Delta E^*_{ab,4}$
relative visual difference
CIELAB colour difference
sum of CIELAB colour differences

visual scaled (V^*) colour difference: $\Delta V^*_{3,i} = \Delta V_i \cdot \Delta S^*_3$ ($i=0$ to 1)
 $\Delta V^*_{5,i} = \Delta V_i \cdot \Delta S^*_5$ ($i=0$ to 4)

$\Delta V^*_3 = \Delta V^*_{3,0} + \Delta V^*_{3,1} = \Delta S^*_3$
 $\Delta V^*_5 = \Delta V^*_{5,0} + \Delta V^*_{5,1} + \Delta V^*_{5,3} + \Delta V^*_{5,4} = \Delta S^*_5$

73 mean visual data of the x observers from experiments with the BAM-test charts:
25 triplets for 25 series with 3 colour steps
48 triplets for 16 series with 5 colour steps
x>14 observers for data set VR_0128

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WE991-3N

Relative and scaled visual differences; 2, 3 & 5 steps; BAM-report 115

relative visual scale ΔV range 0 to 1	visual magnitude ratio S_j : 10 compared to 10	relative visual scale ΔX_i ($i=0$ to 4) range 0 to 1	scaled visual data ΔV^*_i ($i=0$ to 4) $\Delta V^*_i = \Delta V_i \cdot \Delta X_i (S_j + S_{j+1})$
0 a_j 1 0 0,30 1 ΔV_i 0,30 0,70 0,23=5,0/21,7 (pair comparison)	S_j 0 10 5,0 : 10 16,7 : 10	0 0,2 0,4 0,6 0,8 1 ΔX_i 0,2 0,2 0,2 0,2 0,2 ΔX_i 0,2 0,2 0,2 0,2 0,2 ΔX_i 0,2 0,2 0,2 0,2 0,2	$\Delta V^*_0 \Delta V^*_1 \Delta V^*_2 \Delta V^*_3 \Delta V^*_4$ 1.3 1.3 1.3 1.3 1.3 3.03 3.03 3.03 3.03 3.03 3.07 3.07 3.07 3.07 3.07 2.04 2.04 2.04 2.04 2.04 1.15 1.15 1.15 1.15 1.15 1.72 1.72 1.72 1.72 1.72
0 0,60 1 ΔV_i 0,60 0,40 0,56=14,3/25,6 (pair comparison)	14,3 : 10 11,3 : 10	ΔX_i 0,2 0,2 0,2 0,2 0,2 ΔX_i 0,2 0,2 0,2 0,2 0,2	
0 0,40 1 ΔV_i 0,40 0,60 0,29=4,2/14,4 (pair comparison)	4,2 : 10 10,2 : 10	ΔX_i 0,2 0,2 0,2 0,2 0,2 ΔX_i 0,2 0,2 0,2 0,2 0,2	

2 experiments of 5 observers

slider sample adjust

final scaled data

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WE991-7N

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