

Names and colorimetric characteristics of colour difference data sets							
Group	Name	Short name and number of pairs	Mean colour difference ΔE^*_{ab}	Background Tristimulus value and lightness		Background Illuminance and luminance	
				Y	L*	E [lux]	L [cd/m] ²
LCD	OSA_Separate	OS_L0128	14,3	18,4	50,0	1000	58
	MUNSELL_Separ.	MU_L0844	10,0	18,4	50,0	1000	58
	POINTER_Adjac.?	PO_L1308	8,9	18,4	50,0	1000	58
	GUAN_Adjacent?	GU_L0292	11,4	18,4	50,0	1000	58
	ZHU_Adjacent?	ZH_L0144	9,9	18,4	50,0	1000	58
	BADU-P_Adjac.?	BA_L0238	11,7	18,4	50,0	1000	58
ELCD	WANG_Adjacent	WA_EW060	50,2	18,4	50,0	1000	58
	VIK_Adjacent	VA_EV060	40,6	18,4	50,0	1000	58
	RICHTER_Separate	RS_ER032	50,0	18,4	50,0	1000	58
IS&RS	VIK_Adjacent	VA_EW098	41,1	18,4	50,0	1000	58
	KIT_Adjacent	KA_EW098	41,1	18,4	50,0	1000	58
	KIT_Separate	KS_EW098	41,1	18,4	50,0	1000	58
	MEL_Adjacent	MA_EW098	41,1	18,4	50,0	1000	58
	VIK_Adjacent	VA_EV098	41,1	18,4	50,0	1000	58
	KIT_Adjacent	KA_EV098	41,1	18,4	50,0	1000	58
	KIT_Separate	KS_EV098	41,1	18,4	50,0	1000	58
	MEL_Adjacent	MA_EV098	41,1	18,4	50,0	1000	58

Remarks: RS = ratio scaling, IS&PS = interval and ratio scaling
Group LCD = Large Colour Differences, ELCD = Extra Large Colour Differences
MUNSELL and POINTER use the CIE 2 degree observer
OSA, GUAN, ZHU, and BADU-P use the CIE 10 degree observer
Group ELCD uses CIE 2 degree observer

Visual and other characteristics of colour difference data sets				
Short name, number of pairs	Number of observers and repetitions	Chromaticity of the grey surround	Material properties	Scaling and comparison method ⁴⁾
OS_L0128	?	near CIE D65	Tiles	scaling: RS
MU_L0844	?	near CIE C	Gloss Paint	scaling: RS
PO_L1308	?	near CIE D65?	Photo paper	scaling: ?
GU_L0292	?	near CIE D65?	Wool Dyeing	scaling: ?
ZH_L0144	?	near CIE D65?	CRT colours	scaling: ?
BA_L0238	?	near CIE D65?	Nylon Dyeing	scaling: ?
WA_EW060	31x3?	near CIE D65	Photo paper	scaling: RS ³⁾
VA_EV098	14x3	near CIE D65	Photo paper	scaling: RS ³⁾ 2)
RS_ER032	6x3	near CIE D65	Light colours	scaling: RS ³⁾
VA_EW098	14x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
KA_EW098	17x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
KS_EW098	17x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
MA_EW098	20x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
VA_EV098	14x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
KA_EV098	17x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
KS_EV098	17x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾
MA_EV098	20x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS ¹⁾

Remarks:
¹⁾ Interval and ratio scaling, EW (WANG ratio), EV (VIK ratio), ER (RICHTER ratio)
²⁾ Interval and ratio scaling of same viewing condition
³⁾ Ratio scaling
⁴⁾ see section 1: terms and definitions

Name of data set, data file folder in internet, reference for the data set			
Short Name, number of pairs	data file folder in internet ABCD ^{1) 2)}	line range of CIE XYZ data of pairs in internet file ABCD0-7N.PS ³⁾	Publication reference for the data set Author(s) and publication year
OS_L0128	YE81	0238 to 0373	MACADAM, D. L. (1974)
MU_L0844	YE82	0238 to 1089	NEWHALL, S. M. et al (1940, 1943)
PO_L1308	YE83	0238 to 1553	POINTER, M. R. (1997)
GU_L0292	YE84	0238 to 0537	GUAN, S. S. (1999)
ZH_L0144	YE85	0238 to 0389	ZHU, S. Y. et al (2001)
BA_L0238	YE86	0238 to 0483	BADU, A. S. (1986)
WA_EW060	YE87	0238 to 305	WANG et al (2012)
VA_EV098	YE88	0238 to 325	VIK, M. (2016?)
RS_ER032	YE89	0238 to 325	RICHTER, K. (1985)
VA_EW098	YE61	0238 to 352	VIK, M. (2009?)
KA_EW098	YE62	0238 to 352	KITTELMANN, P. (2005)
KS_EW098	YE63	0238 to 352	KITTELMANN, P. (2005)
MA_EW098	YE64	0238 to 341	HUERTAS, R. & MELGOSA, M. (2008)
VA_EV098	YE65	0238 to 352	VIK, M. (2009?)
KA_EV098	YE66	0238 to 352	KITTELMANN, P. (2005)
KS_EV098	YE67	0238 to 352	KITTELMANN, P. (2005)
MA_EV098	YE68	0238 to 341	HUERTAS, R. & MELGOSA, M. (2008)

¹⁾ Two servers allow the download of the data sets with the CIE XYZ and DV data:
<http://130.149.60.45/~farbmetrik/> and/or <http://farbe.li.tu-berlin.de/>
²⁾ Data files are given in the formats: .TXT (text), .PS/.EPS (PostScript), and .PDF
³⁾ See the files for download for example in: <http://farbe.li.tu-berlin.de/YE61/>
Use for download for example: <http://farbe.li.tu-berlin.de/YE61/YE610-7T.TXT>

Content of a file with the example ELCD data set: VA_EW098	
see for example the following folder for VA_EW098 with many files for the download: http://farbe.li.tu-berlin.de/YE61/	
see the following file with the PostScript programming text http://farbe.li.tu-berlin.de/YE61/YE610-7R.TXT	
one can study the output of the corresponding PDF file http://farbe.li.tu-berlin.de/YE61/YE610-7R.PDF	
the ASCII text output of the preceding PDF file is in the file: http://farbe.li.tu-berlin.de/YE61/YE610-7T.TXT	
This output includes the following text and numerical data: 1000*CIEXYZ & 1000*D ^V data for all colours (a) of all colour difference data pairs The XYZn data are for the experimental reference white of the 2 or 10 degree observer The reference white is for example X _n =95,05, Y _n =100,00, Z _n =108,90 for D65	
X _n	Y _n Z _n X ₀ Y ₀ Z ₀ X ₁ Y ₁ Z ₁ DV* Nr
0095050	0100000 0108900 0043074 0051427 0077399 0081895 0087159 0084892 0005684 %61000001
0095050	0100000 0108900 0043074 0051427 0077399 0019343 0027473 0069838 0007426 %61000002

If the decimal comma for the CIEXYZ and DV* data is considered, then for example
X₀=43,074 and DV*=5,684