

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	OS_0128	14,32	18.4	50.0	1000	58
	MUNSELL	MU_0844	10,05	18.4	50.0	1000	58
	POINTER	PO_1308	8,9	18.4	50.0	1000	58
	GUAN	GU_0292	11,42	18.4	50.0	1000	58
	ZHU	ZH_0144	9,91	18.4	50.0	1000	58
	BADU-P	BA_0238	11,74	18.4	50.0	1000	58
	RICHTER-L	RL_0080	11,11	17.0	48.2	1108	60
	KITTELMANN-L	KL_0624	21,21	18.6	50.3	958	56
ELCD	VIK-R	VR_0118	36	24.9	57.0	1000	79
	KITTELMANN-R	KR_0128	36	24.9	57.0	1000	79
	MELGOSA-R	MR_0146?	36	24.9	57.0	1000	79

Remarks:

Group LCD = Large Colour Differences
Group ELCD = Extra Large Colour Differences

MUNSELL, POINTER, RICHTER-L, and KITTELMANN-L
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

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WE521-3N

Visual and other characteristics of colour difference data sets

Short name, number of pairs	Number of observers and replications	Illuminant or light source	Material properties	Scaling and comparison method ⁴⁾
OS_0128	?	CIE ill. D65	Tiles	Scaling
MU_0844	?	CIE ill. C	Gloss Paint	Scaling
PO_1308	?	D65?	Photo paper	?
GU_0292	?	D65?	Wool Dyeing	?
ZH_0144	?	D65	CRT colours	?
BA_0238	?	D65	Nylon Dyeing	?
RL_0080	7 x 3	D65	light colours	Scaling ¹⁾
KL_0624	31?	D65	Photo paper	Scaling ²⁾
VR_0128	14	D65	Photo paper	Scaling ³⁾
KR_0128	17	D65	Photo paper	Scaling ³⁾
MR_0146?	17?	D65	Photo paper	Scaling ³⁾

Remarks:

- Interval and ratio scaling
- Multidimensional scaling
- Interval scaling
- see section 1: terms and definitions

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WE520-7N

TUB-test chart WE52; Colour difference experiments
Properties and download of the colour difference data sets LCD and ELCD

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_0128	VE81	0238 to 0373	MACADAM, D. L. (1974)
MU_0844	VE82	0238 to 1089	NEWHALL, S. M. et al (1940, 1943)
PO_1308	VE83	0238 to 1553	POINTER, M. R. (1997)
GU_0292	VE84	0238 to 0537	GUAN, S. S. (1999)
ZH_0144	VE85	0238 to 0389	ZHU, S. Y. et al (2001)
BA_0238	VE86	0238 to 0483	BADU, A. S. (1986)
RL_0080	VE87	0238 to 0327	RICHTER, K. (1985)
KL_0624	VE88	0238 to 0874	KITTELMANN, P. (2010)
GE_0100	?	0238 to ?	KITTELMANN, P. (2010)
CZ_0100	?	0238 to ?	VIK, M. (?)
ES_0100	?	0238 to ?	MELGOSA, M. (?)

Remarks:

- Two servers allow the download of the data sets with the CIE XYZ data:

<http://130.149.60.45/~farbmetrik/ABCD/>
<http://farbe.li.tu-berlin.de/ABCD/>

- Data files are given in the formats: .TXT (text), .PS/.EPS (PostScript), and .PDF

- For only the CIE XYZ data of all sample pairs download the file ABCD0-7T.TXT
Use for download for example: <http://130.149.60.45/~farbmetrik/VE81/VE810-7T.TXT>

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BA_0238	WE86	0238 to 0483	BADU, A. S. (1986)
RL_0080	WE87	0238 to 0327	RICHTER, K. (1985)
KL_0624	WE88	0238 to 0874	KITTELMANN, P. (2010)
VR_0128	WE76	0238 to ?	VIK, M. (2007)
KR_0128	WE77	0238 to ?	KITTELMANN, P. (2005)
MR_0146?	WE78?	0238 to ?	MELGOSA, M. (?)

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WE521-7N

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