Names and colorimetric charateristics of colour difference data sets

Group	Name	Short name and number of pairs	Mean colour difference ΔE^*_{ab}	Background Tristimulus value and lightness Y	L^*	Background Illuminance and luminance E [lux]	L [cd/m]^2
SCD	WITT RIT−DUPONT LEEDS BFD−P BIGC−S−SG	WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	1,38 1,40 1,6 3,0 3,04	24.9 10.8 18.0 19.9 18.6	57.0 39.4 49.5 51.8 50.3	1300 2000 1005 1570 958	103 69 57 99 56
TCD	WANG−M BIGC−T1−SG BIGC−T2−M BIGC−T2−SG BIGC−T2−G	WA_100 1S_0890 2M_0399 2S_0446 2G_0379	0,55 1,10 0,7 1,1 0,8	40.7 18.6 18.6 18.6 18.6	70.0 50.3 50.3 50.3 50.3	1100 958 1036 1036 1036	142 56 61 61 61
VCD	RICHTER KITTELMANN AVRAMOPOULOS	RI_0330 KI_0392 AV_0132	0,90 0,41 0,75	17.0 18.4 17.0	48.2 50.0 48.2	1108 1022 1108	60 60 60

Remarks:
Group SCD = Small Colour Differences
Group TCD = Threshold Colour Differences
Group VCD = Very small Colour Differences
Groups SCD and TCD use the CIE 10 degree observer
Group VCD uses the CIE 2 degree observer

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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 *ABCD*0−7R.PS [3)]	Publication reference for the data set Author(s) and publication year
WI_0418	UE94	0268 to 0700	*WITT, K. (1999)*
RD_0312	UE95	0268 to 0592	*BERNS, R. S. et al. (1991)*
LE_0307	UE96	0268 to 0587	*KIM, D. H. et al. (1997)*
BF_2776	UE97	0268 to 3105	*LUO, M. R. et al. (1986)*
SS_0446	VE58	0238 to 0663	*HUANG, M. et al. (2012)*
WA_100	VE71	0238 to 0345	*WANG, H. et al. (2012)*
1S_0890	VE72	0238 to 1135	*HUANG, M. et al. (2012)*
2M_0399	VE73	0238 to 0644	*HUANG, M. et al. (2010)*
2S_0446	VE74	0238 to 0691	*HUANG, M. et al. (2010)*
2G_0379	VE75	0238 to 0624	*HUANG, M. et al. (2010)*
RI_0330	UE91	0268 to 0610	*RICHTER, K. (1985)*
KI_0392	UE92	0268 to 0673	*KITTELMANN, P. (2010)*
AV_0132	UE93	0268 to 0408	*AVRAMOPOULOS, D. (1987)*

Remarks:
[1)] 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/
[2)] Data files are given in the formats: .TXT (text), .PS/.EPS *(PostScript)*, and .PDF
[3)] For only the CIE *XYZ* data of all sample pairs download the file *ABCD*0−7T.TXT
Use for download for example: *http://130.149.60.45/~farbmetrik/UE94/UE940−7T.TXT*

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Visual and other characteristics of colour difference data sets

Short Name, number of pairs	Number of observers and repli-cations	Illuminant or light source	Material properties	Scaling and comparison method
WI_0418	10−14	High quality D65	Gloss Paint	Own grey scale
RD_0312	50	CCT = 6100 K	Gloss Paint	Anchor pair
LE_0307	12−15	D65 *(ICS−Texicon)*	Matt Paint	grey scale[3)]
BF_2776	Mean>20	D65 (3 types)	(textile)	Grey scale
SS_0446	9 x 27	D65 *(GretagMb.)*	Print	Own grey scale
WA_100	21 x 26	D65 *(GretagMb.II)*	Gloss Paint	fixed Yes/No[4)]
1S_0890	16 x 3	D65 *(GretagMb.II)*	Gloss Paint	fixed Yes/No[4)]
2M_0399	23 x 3	D65	Gloss Paint	fixed Pass/Fail[4)]
2S_0446	23 x 3	D65	Gloss Paint	fixed Pass/Fail[4)]
2G_0379	23 x 3	D65	Gloss Paint	fixed Pass/Fail[4)]
RI_0330	7 x 3	D65 (258 pairs)[1)]	light colours	slider Yes/No[5)]
KI_0392	31	High quality D65	photo paper	slider Yes/No[5)]
AV_0132	4 x 3	CCT = 4000 K[2)]	light colours	slider Yes/No[5)]

Remarks:
[1)] 258 pairs are seen in surround D65 and 72 pairs in surround with CCT 4000K.
[2)] large range 0,1<*Y*<200.
[3)] grey scale and anchor pair.
[4)] Pass/Fail decision of colour difference.
[5)] Yes/No detection of colour difference.

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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 *ABCD*0−7R.PS [3)]	Publication reference for the data set Author(s) and publication year
WI_0418	WE94	0238 to 0663	*WITT, K. (1999)*
RD_0312	WE95	0238 to 0557	*BERNS, R. S. et al. (1991)*
LE_0307	WE96	0238 to 0552	*KIM, D. H. et al. (1997)*
BF_2776	WE97	0238 to 3021	*LUO, M. R. et al. (1986)*
SS_0446	WE98	0238 to 0663	*HUANG, M. et al. (2012)*
WA_100	WE71	0238 to 0345	*WANG, H. et al. (2012)*
1S_0890	WE72	0238 to 1135	*HUANG, M. et al. (2012)*
2M_0399	WE73	0238 to 0644	*HUANG, M. et al. (2010)*
2S_0446	WE74	0238 to 0691	*HUANG, M. et al. (2010)*
2G_0379	WE75	0238 to 0624	*HUANG, M. et al. (2010)*
RI_0330	WE91	0238 to 575	*RICHTER, K. (1985)*
KI_0392	WE92	0238 to 0637	*KITTELMANN, P. (2010)*
AV_0132	WE93	0238 to 0377	*AVRAMOPOULOS, D. (1987)*

Remarks:
[1)] Two servers allow the download of the data sets with the CIE *XYZ* data:
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