

**Names and colorimetric characteristics of colour difference data sets**

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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| Visual and other characteristics of colour difference data sets | | | | | |
|---|---|---|--|---|--|
| Short Name, number of observers and replicates | Number of illuminant or light source | Illuminant Material properties | Scaling and comparison method | | |
| WI_0418 RD_0312 LE_0307 BF_2776 SS_0446 | 10-14 D65 D65 (ICS-Texicon) D65 (3 types) D65 (GretagMb.) | High quality D65 CCT = 6100 K D65 (GretagMb.) D65 (3 types) D65 (GretagMb.) | Gloss Paint Gloss Paint Matt Paint (textile) Grey scale Own grey scale | Own grey scale Anchor pair grey scale ³⁾ Grey scale Own grey scale | |
| WA_100 IS_0890 2M_0399 2S_0446 2G_0379 | 21 x 26 16 x 3 23 x 3 23 x 3 23 x 3 | D65 (GretagMb.H) D65 (GretagMb.H) D65 D65 D65 | Gloss Paint Gloss Paint Gloss Paint Gloss Paint Gloss Paint | fixed Yes/No ⁴⁾ fixed Yes/No ⁴⁾ fixed Pass/Fail ⁴⁾ fixed Pass/Fail ⁴⁾ fixed Pass/Fail ⁴⁾ | |
| RI_0330 KL_0392 AV_0132 | 7 x 3 31 4 x 3 | D65 (258 pairs) ¹⁾ High quality D65 CCT = 4000 K ²⁾ | light colours photo paper light colours | slider Yes/No ⁵⁾ slider Yes/No ⁵⁾ slider Yes/No ⁵⁾ | |

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1-000030-10 WE51-7N

TUB-test chart WE51; Colour difference experiments
Properties and download of the colour difference data sets SCD, TCD, and VCD

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⁾ UECD ²⁾ | line range of CIE XYZ data of pairs in internet file ABCD0-7T.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) |
| IS_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) |
| KL_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/~farbmetrikt/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 ABCD0-7T.TXT
Use for download for example: <http://130.149.60.45/~farbmetrikt/UE94/UE940-7T.TXT>

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| Short Name, number of pairs | data file folder in internet ABCD ¹⁾ UECD ²⁾ | line range of CIE XYZ data of pairs in internet file ABCD0-7T.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) |
| IS_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) |
| KL_0392 | WE92 | 0238 to 0637 | KITTELMANN, P. (2010) |
| AV_0132 | WE93 | 0238 to 0377 | AVRAMOPOULOS, D. (1987) |

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

