

http://farbe.li.tu-berlin.de/AEA2/AEA2L0NP.PDF /.PS; Vector graphic (VG); start output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/1

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Frame File PostScript Code for 1-Minus-Relation (IMR) to setrgbcolor
01 %!PS-Adobe-3.0 EPSF-3.0, IMR for change to setrgbcolor
02 /FFM_setrgbcolor {setrgbcolor} bind def
03 /LMR-0000 {%BEG procedure LMR-0000
04 %LMR-Transform of setgray and setcmykcolor to FFM_setrgbcolor
05
06 /setgray {%BEG procedure setgray to setrgbcolor
07 dup dup FFM_setrgbcolor
08 } def %END procedure setgray to setrgbcolor
09
10 /setcmykcolor {%BEG procedure setcmykcolor to setrgbcolor
11 /FFM_k each def /FFM_y each def /FFM_m each def /FFM_c each def
12 /FFM_k 0 eq {1 FFM_k sub 1 FFM_m sub 1 FFM_y sub FFM_setrgbcolor}
13 {1 FFM_k sub dup dup FFM_setrgbcolor} ifelse
14 } def %END procedure setcmykcolor to setrgbcolor
15
16 } def %END procedure LMR-0000
17 %%trailer %END 1-Minus-Relation (IMR) to setrgbcolor
    
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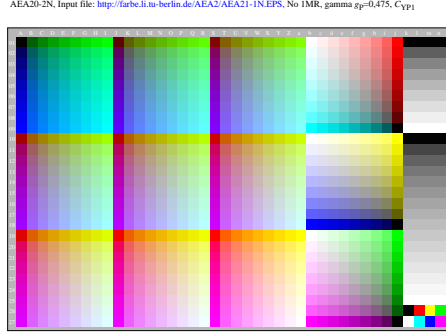
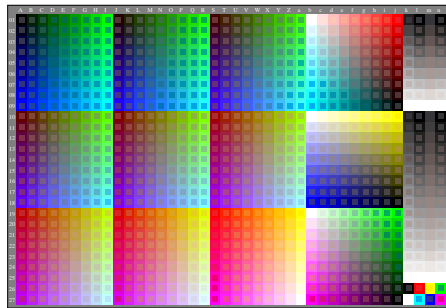
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Change of Frame File PostScript Code for 1-Minus-Relation (IMR)
The following files include changes (Yes/No):
File      IMR      gamma      value
AEA20-2N No      No      1.000
AEA20-4N Yes     Yes     0.475
AEA21-1N No      No      1.000
AEA21-3N Yes     No      1.000
AEA2L0NP No      No      1.000

01 %BEG PS-Code used in the files of this page AEA2
02 LMR-0000F
03 LMR-0000G
04 /LMR-0000G where {pop LMR-0000G}{LMR-0000F} ifelse
05
06 %The PS-Operator is not active if "*" is in front.
07
08 %Used in AEA20-2N.EPS, AEA21-1N.EPS: %02, %03, %04
09 %Used in AEA20-4N.EPS, AEA21-3N.EPS: %02, %03, %04
10 %Used in AEA2L0NP.EPS: %02, %03, %04
11 %END PS-Code used in the files of this page AEA2
Remarks:
lines 02 to 04: three possibilities for PS Operators (%-not used).
    
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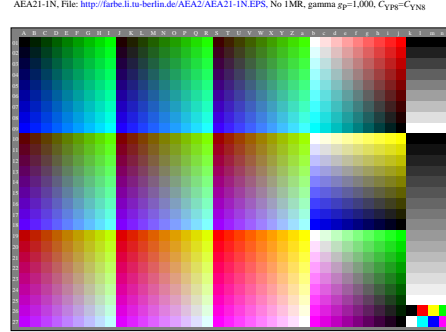
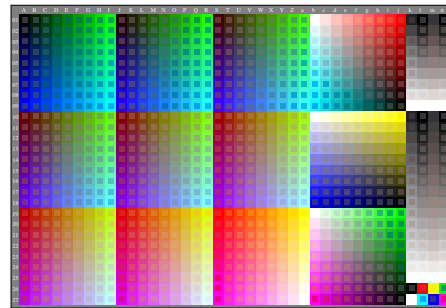
```

PostScript-code used in the local files (F) for the 1-Minus-Relation (IMR)
The software AdobeDistiller V3.0 transfers local PS-VG to the PDF-VG code.
The software GraphicConverter V5.2 transfers PDF-VG to the eps-PG code.
01 %BEG AEA2/OUTLINIY2 EARLY BINDING LMR-0000F 200201
02 %BEG LMR-0000F.TXT, IMR & rel. gamma change 200201
03
04 /gammaFi 15 array def
05 /gammaFi rel. gamma according to ISO 9241-306:2018
06 [0.475 0.550 0.625 0.700 0.775 0.849 0.924 1.000
07 1.081 1.176 1.290 1.428 1.600 1.818 2.105] def
08
09 /LMR-0000F {%BEG procedure LMR-0000F
10 /FF_LM_setgrayF0 {setgray} bind def
11 /FF_LM_setrgbcolorF0 {setrgbcolor} bind def
12 /FF_LM_setcmykcolorF0 {setcmykcolor} bind def
13 /FF_LM_transferF0 {settransfer} bind def
14 /FF_LM_colortransferF0 {setcolortransfer} bind def
15 /FF_LM_xchartg_gammaF {gammaGi xchart get exp} def
16
17 /FF_LM_setrgbcolorF {%BEG FF_LM_setrgbcolorF
18 /FF_LM_b0L exch def /FF_LM_g0L exch def
19 /FF_LM_r0L exch def
20 /FF_LM_r0L 0 le {/FF_LM_r0L 0.0001 def} if
21 /FF_LM_g0L 0 le {/FF_LM_g0L 0.0001 def} if
22 /FF_LM_b0L 0 le {/FF_LM_b0L 0.0001 def} if
23 /FF_LM_r1F FF_LM_r0L FF_LM_xchartg_gammaF def
24 /FF_LM_g1F FF_LM_g0L FF_LM_xchartg_gammaF def
25 /FF_LM_b1F FF_LM_b0L FF_LM_xchartg_gammaF def
26 /FF_LM_r1F FF_LM_g1F FF_LM_b1F
27 /FF_LM_setrgbcolorF0} def %END FF_LM_setrgbcolorF
28
29 /setgray {%BEG procedure setgrayF
30 dup dup FF_LM_setrgbcolorF
31 } def %END procedure setgrayF
32 %PS continuing lines 33 to 65 in file AEA20-8N.PDF
Remarks:
lines 09 to 15: early lokal binding of five PS color operators:
setgray, setrgbcolor, setcmykcolor, settransfer, setcolortransfer.
lines 11 to 31: early lokal binding of the PS operator setgray. Setgray
is transferred to the PS operator setrgbcolor. The values vary with gamma.
The local files (F), for example AEA21-3N.EPS, use at the begin
the procedure LMR-0000F instead of LMR-0000G within AEA2L0NA.PS.
    
```



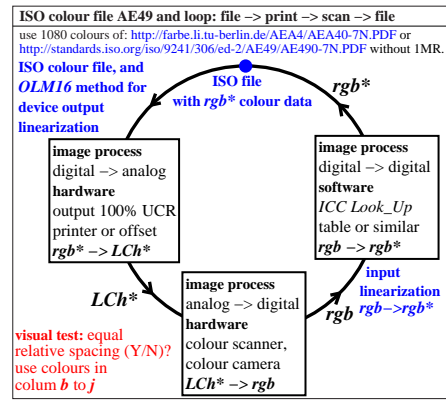
```

PostScript-code used in the local files (F) for the 1-Minus-Relation (IMR)
The software AdobeDistiller V3.0 transfers local PS-VG to the PDF-VG code.
The software GraphicConverter V5.2 transfers PDF-VG to the eps-PG code.
33 %PS previous lines 01 to 32 in file AEA20-7N.PDF
34 /setcmykcolor {%BEG procedure setcmykcolorF
35 /FF_LM_k exch def /FF_LM_y exch def
36 /FF_LM_m exch def /FF_LM_c exch def
37 /FF_LM_k 0 eq {1 FF_LM_c sub 1 FF_LM_m sub
38 1 FF_LM_y sub FF_LM_setrgbcolorF}
39 {1 FF_LM_k sub dup dup
40 FF_LM_setrgbcolorF} ifelse
41 } def %END procedure setcmykcolorF
42
43 /setrgbcolor {%BEG procedure setrgbcolorF
44 /FF_LM_b exch def /FF_LM_g exch def
45 /FF_LM_r exch def
46 /FF_LM_r FF_LM_g FF_LM_b
47 /FF_LM_setrgbcolorF
48 } def %END procedure setrgbcolorF
49
50 /FF_LM_transferF {%BEG FF_LM_transferF
51 {FF_LM_xchartg_gammaF}
52 /FF_LM_transferF0} def %END FF_LM_transferF
53 /settransfer {FF_LM_transferF} def
54
55 /FF_LM_colortransferF {%BEG FF_LM_colortransferF
56 {FF_LM_xchartg_gammaF} {FF_LM_xchartg_gammaF}
57 /FF_LM_xchartg_gammaF} def
58 /FF_LM_colortransferF0} def
59 %END FF_LM_colortransferF
60 /setcolortransfer {FF_LM_colortransferF} def
61 } def %END procedure LMR-0000F
62 %END LMR-0000F.TXT, IMR & rel. gamma change 200201
63 %END AEA2/OUTLINIY2 EARLY BINDING LMR-0000F 200201
64 %global use: LMR-0000G, image file use: LMR-0000F
65 /LMR-0000G where {pop LMR-0000G}{LMR-0000F} ifelse
Remarks:
lines 32 to 64: early lokal binding of the other four PS color operators:
setrgbcolor, setcmykcolor, settransfer, setcolortransfer.
The values of all including a revised setrgbcolor vary with gamma.
line 65: If the global procedure /LMR-0000G is defined, then this is used.
The local files (F), for example AEA21-3N.EPS, use at the begin
the procedure LMR-0000F instead of LMR-0000G within AEA2L0NA.PS.
    
```



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PostScript-code used in the global (G) files for the 1-Minus-Relation (IMR)
The software AdobeDistiller V3.0 transfers global PS-VG to the PDF-VG code.
The software GraphicConverter V5.2 transfers PDF-VG to the eps-PG code.
01 %BEG AEA2/OUTLINIY2 EARLY BINDING LMR-0000G 200201
02 %BEG LMR-0000G.TXT, IMR & rel. gamma change 200201
03
04 /gammaGi 15 array def
05 /gammaGi rel. gamma according to ISO 9241-306:2018
06 [0.475 0.550 0.625 0.700 0.775 0.849 0.924 1.000
07 1.081 1.176 1.290 1.428 1.600 1.818 2.105] def
08
09 /LMR-0000G {%BEG procedure LMR-0000G
10 /FF_LM_setgrayG0 {setgray} bind def
11 /FF_LM_setrgbcolorG0 {setrgbcolor} bind def
12 /FF_LM_setcmykcolorG0 {setcmykcolor} bind def
13 /FF_LM_transferG0 {settransfer} bind def
14 /FF_LM_colortransferG0 {setcolortransfer} bind def
15 /FF_LM_xchartg_gammaG {gammaGi xchart get exp} def
16
17 /FF_LM_setrgbcolorG {%BEG FF_LM_setrgbcolorG
18 /FF_LM_b0L exch def /FF_LM_g0L exch def
19 /FF_LM_r0L exch def
20 /FF_LM_r0L 0 le {/FF_LM_r0L 0.0001 def} if
21 /FF_LM_g0L 0 le {/FF_LM_g0L 0.0001 def} if
22 /FF_LM_b0L 0 le {/FF_LM_b0L 0.0001 def} if
23 /FF_LM_r1F FF_LM_r0L FF_LM_xchartg_gammaG def
24 /FF_LM_g1F FF_LM_g0L FF_LM_xchartg_gammaG def
25 /FF_LM_b1F FF_LM_b0L FF_LM_xchartg_gammaG def
26 /FF_LM_r1F FF_LM_g1F FF_LM_b1F
27 /FF_LM_setrgbcolorG0} def %END FF_LM_setrgbcolorG
28
29 /setgray {%BEG procedure setgrayG
30 dup dup FF_LM_setrgbcolorG
31 } def %END procedure setgrayG
32 %PS continuing lines 33 to 65 in file AEA21-8N.PDF
Remarks:
lines 09 to 15: early global binding of five PS color operators:
setrgbcolor, setcmykcolor, settransfer, setcolortransfer.
lines 11 to 31: early global binding of the PS operator setgray. Setgray
is transferred to the PS operator setrgbcolor. The values vary with gamma.
The global (G) frame files, for example AEA2L0NA.PS, use at the begin
the procedure LMR-0000G instead of LMR-0000F within AEA21-3N.EPS.
    
```



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PostScript-code used in the global (G) files for the 1-Minus-Relation (IMR)
The software AdobeDistiller V3.0 transfers global PS-VG to the PDF-VG code.
The software GraphicConverter V5.2 transfers PDF-VG to the eps-PG code.
33 %PS previous lines 01 to 32 in file AEA21-7N.PDF
34 /setcmykcolor {%BEG procedure setcmykcolorG
35 /FF_LM_k exch def /FF_LM_y exch def
36 /FF_LM_m exch def /FF_LM_c exch def
37 /FF_LM_k 0 eq {1 FF_LM_c sub 1 FF_LM_m sub
38 1 FF_LM_y sub FF_LM_setrgbcolorG}
39 {1 FF_LM_k sub dup dup
40 FF_LM_setrgbcolorG} ifelse
41 } def %END procedure setcmykcolorG
42
43 /setrgbcolor {%BEG procedure setrgbcolorG
44 /FF_LM_b exch def /FF_LM_g exch def
45 /FF_LM_r exch def
46 /FF_LM_r FF_LM_g FF_LM_b
47 /FF_LM_setrgbcolorG
48 } def %END procedure setrgbcolorG
49
50 /FF_LM_transferG {%BEG FF_LM_transferG
51 {FF_LM_xchartg_gammaG}
52 /FF_LM_transferG0} def %END FF_LM_transferG
53 /settransfer {FF_LM_transferG} def
54
55 /FF_LM_colortransferG {%BEG FF_LM_colortransferG
56 {FF_LM_xchartg_gammaG} {FF_LM_xchartg_gammaG}
57 /FF_LM_xchartg_gammaG} def
58 /FF_LM_colortransferG0} def
59 %END FF_LM_colortransferG
60 /setcolortransfer {FF_LM_colortransferG} def
61 } def %END procedure LMR-0000G
62 %END LMR-0000G.TXT, IMR & rel. gamma change 200201
63 %END AEA2/OUTLINIY2 EARLY BINDING LMR-0000G 200201
64 %global use: LMR-0000G, image file use: LMR-0000F
65 /LMR-0000G where {pop LMR-0000G}{LMR-0000F} ifelse
Remarks:
lines 32 to 64: early global binding of the other four PS color operators:
setrgbcolor, setcmykcolor, settransfer, setcolortransfer.
The values of all including a revised setrgbcolor vary with gamma.
line 65: If the global procedure /LMR-0000G is defined, then this is used.
The global (G) frame files, for example AEA2L0NA.PS, use at the begin
the procedure LMR-0000G instead of LMR-0000F within AEA21-3N.EPS.
    
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TUB-test chart AEA2; Vector graphic (VG) of all figures input: w/rgb/cmyk -> rgb(IMR)?
 PostScript-output steering of test chart AE49 of ISO 9241-306 output: 0,475 < gamma gp < 1,000

see similar files: http://farbe.li.tu-berlin.de/AEA2/AEA2L0NP.PDF /.PS
 technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20200201-AEA2/AEA2L0NP.PDF /.PS
 application for evaluation and measurement of display or print output
 TUB material: code=rha4ta