

```

*****
%%Frame File Linearization Method (FF_IM)
%Combined transfer: setgray, setrgbcolor, setcmykcolor
and settransfer, setcolortransfer

/FF_IM_setgrayF0 (setgray) bind def
/FF_IM_setrgbcolorF0 (setrgbcolor) bind def
/FF_IM_setcmykcolorF0 (setcmykcolor) bind def
/FF_IM_transferF0 (settransfer) bind def
/FF_IM_colortransferF0 (setcolortransfer) bind def
/FF_IM_xchart_gammaF0 [/xchart where {pop /xchartN xchart 8 idiv def
/xchartP xchart
xchart 8 idiv 8 mul sub def
[/xchartN 2.0 def /default
/xchartP 0.5 def] ifelse
/gammaF 2.4 xchartP 0.18 mul sub 2.4 div
1 2.4 xchartP 0.18 mul sub 2.4 div
gammaF exp gammaF mul
] def

/FF_IM_setrgbcolorF [FF_IM_setrgbcolorF
/FF_IM_B0L exch def /FF_IM_g0L exch def
FF_IM_g0L 0 le [/FF_IM_g0L 0.0001 def] if
FF_IM_g0L 0 le [/FF_IM_B0L 0.0001 def] if
/FF_IM_B0L 0 le [/FF_IM_B0L 0.0001 def] if
/FF_IM_g1P FF_IM_g0L FF_IM_xchart_gammaF def
/FF_IM_g1B FF_IM_g0B FF_IM_xchart_gammaF def
/FF_IM_g1P FF_IM_g1B FF_IM_xchart_gammaF def
/FF_IM_xchart_gammaF def
] def FF_IM_setrgbcolorF

/FF_IM_transferF [FF_IM_xchart_gammaF] FF_IM_transferF0 def
/FF_IM_colortransferF [FF_IM_xchart_gammaF]
[FF_IM_xchart_gammaF] FF_IM_colortransferF0 def

%%Frame File Linearization Method (FF_IM)
*****
ggs00-3a
    
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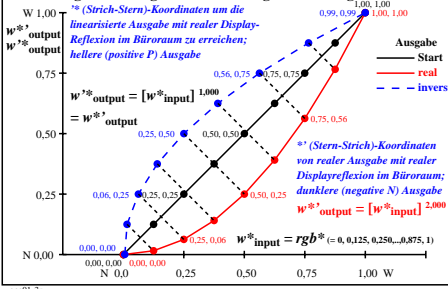
Beispiel-EPS-Code, benutzt in
<http://farbe.li.tu-berlin.de/fgk9/fgk91p10.txt>
<http://farbe.li.tu-berlin.de/fgk9/fgk91p10.pdf>

Externe Werte der Rahmendatei (FF):
 xchart: 0, 1, ..., 8 für P und N series
 für den Bereich 0,5 <= gamma <= 2

Beispiel-Gamma-Werte für HDR-Kopfraum:
 gammaR=0,64 (2 Blendes);
 gammaR=0,8 (1 Blendes); 1,0 (SDR)

Für EPS-Code-Anwendung mit gammaR siehe
<http://farbe.li.tu-berlin.de/fgw1/fgw110u.pdf>
<http://farbe.li.tu-berlin.de/fgw2/fgw210u.pdf>

Farbmanagement Ausgabelinearisierung einer 9stufigen Grauskala



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*****
%%Frame File Linearization Method (FF_IM) calculates inverse data
main file data:
/xvrdj 9 array def /yvrdj 9 array def /vrd-visual real decimal, j=0,8
/xvrdj 9 array def /yvrdj 9 array def /vrd-visual inverse decimal, j=0,8

/indexdi 07 def /default linear
/indexdi 07 eq /gamma 1.0 def /indexdi=07
0 1 2 3 4 5 6 7 8
/yvrdj [0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000] def
/index 16 eq /gamma 2.0 def /indexdi=16
/yvrdj [0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000] def

%procedure to calculate the inverse data
/FF_IM_xchart_gammaF [NBEG /FF_IM_xchart_gammaF for inversa function 240715
/yvrdj exch def
yvrdj 0 eq [/yvrdj 0.0001 def] if
yvrdj 1 eq [/yvrdj 0.3999 def] if
0 1 7 /j exch def /j=0
yvrdj yvrdj j get ge [/j=1] def
] for /j=0,7
/yvrdi yvrdj
yvrdj j=1 add get yvrdj j=1 get sub
/xvrdj j=1 yvrdj add 0.125 mul put
/xvrdj j yvrdi j 7 le (yvrdj add) if put
yvrdj j get
yvrdj j get
] def NBEG /FF_IM_xchart_gammaF for inversa function 240715

%Calculation example of xvrdj, yvrdj by the procedure /FF_IM_xchart_gammaF
0 1 8 /j exch def /j=1
/yvrdj j 8 div def
/yvrdj j yvrdj j get gamma exp def
yvrdj j get FF_IM_xchart_gammaF /output: xvrdj j yvrdj j=0,8
] for stroke /j

%then available: xvrdj, yvrdj, xvrdj, yvrdj, j=0,8
%%Frame File Linearization Method (FF_IM) inverse function
*****
ggs00-7a
    
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Beispiel-Scalierungsdaten:
 gamma = 1 und 2,0

inverser Transfer von x nach y
 und Ausgabe y

Farbmanagement Ausgabelinearisierung einer 9stufigen Grauskala

