

```

%*****
%BEG Frame File Linearization Method (FF_LM)
%Combined transfers: setgray, setrgbcolor, setcmykcolor
% and settransfer, setcolortransfer

/FF_LM_setgrayF0 {setgray} bind def
/FF_LM_setrgbcolorF0 {setrgbcolor} bind def
/FF_LM_setcmykcolorF0 {setcmykcolor} bind def
/FF_LM_transferF0 {settransfer} bind def
/FF_LM_colortransferF0 {setcolortransfer} bind def
/FF_LM_xchart_gammaF {/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 xchartN 0.18 mul sub 2.4 div
    gammaF exp gammaR mul
    } def

/FF_LM_setrgbcolorF {%FF_LM_setrgbcolorF
/FF_LM_b0L exch def /FF_LM_g0L exch def
/FF_LM_r0L exch def
FF_LM_r0L 0 le {/FF_LM_r0L 0.0001 def} if
FF_LM_g0L 0 le {/FF_LM_g0L 0.0001 def} if
FF_LM_b0L 0 le {/FF_LM_b0L 0.0001 def} if
/FF_LM_r1F FF_LM_r0L FF_LM_xchart_gammaF def
/FF_LM_g1F FF_LM_g0L FF_LM_xchart_gammaF def
/FF_LM_b1F FF_LM_b0L FF_LM_xchart_gammaF def
FF_LM_r1F FF_LM_g1F FF_LM_b1F
FF_LM_setrgbcolorF0} def %FF_LM_setrgbcolorF

/FF_LM_transferF {{FF_LM_xchart_gammaF} FF_LM_transferF0} def
/FF_LM_colortransferF {{FF_LM_xchart_gammaF} {FF_LM_xchart_gammaF}
{FF_LM_xchart_gammaF} FF_LM_colortransferF0} def

%END Frame File Linearization Method (FF_LM)
%*****
    
```

Beispiel-EPS-Code, benutzt in  
<http://farbe.li.tu-berlin.de/fkg9/fkg9f1p0.txt>  
<http://farbe.li.tu-berlin.de/fkg9/fkg9f1p0.pdf>

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

Beispiel-GammaR-Werte für HDR-Kopfraum:  
 gammaR=0,64 (2 Blenden);  
 gammaR=0,8 (1 Blende); 1,0 (SDR)

Für EPS Code-Anwendung mit gammaR siehe  
<http://farbe.li.tu-berlin.de/fgw1/fgw1I0np.pdf>  
<http://farbe.li.tu-berlin.de/fgw2/fgw2I0np.pdf>

ggs00-3n

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%*****
%BEG Frame File Linearization Method FF_LM, calculates inverse data
%main file data:
/xvredj 9 array def /yvredj 9 array def %vred=visual real decimal, j=0,8
/xvindj 9 array def /yvindj 9 array def %vind=visual invers decimal, j=0,8

/indexG1 07 def %default linear
indexG1 07 eq {/gamma 1.0 def %indexG1=07
% 0 1 2 3 4 5 6 7 8
/yvredj [0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000] def} if
index 16 eq {/gamma 2.0 def %indexG1=16
/yvredj [0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000] def} if

%procedure to calculate the inverse data
/FF_LM_xchart_gammaF {%BEG /FF_LM_xchart_gammaF for invers function 240715
/yvred exch def
yvred 0 eq {/yvred 0.0001 def} if
yvred 1 eq {/yvred 0.9999 def} if
0 1 7 {/j exch def %j=0,7
yvred yvredj j get ge {/jm j def} if
} for %j=0,7
/yvredt yvred yvredj jm get sub
yvredj jm 1 add get yvredj jm get sub div def
/xvindt jm yvredt add 0.125 mul put
xvindj j yvredt j 7 le {yvred add} if put
yvindj j xvindt put
yvindj j get
} def %END %BEG /FF_LM_xchart_gammaF for invers function 240715

%Calculation example of xvindj, yvindj by the procedure /FF_LM_xchart_gammaF
0 1 8 {/j exch def %j
/xvredj j 8 div def
/yvredj j xvredj j get gamma exp def
yvredj j get FF_LM_xchart_gammaF %output: xvindj & yvindj j=0,8
} for stroke %j

%then available: xvredj, yvredj, xvindj, yvindj, j=0,8
%END Frame File Linearization Method FF_LM, inverse function
%*****
    
```

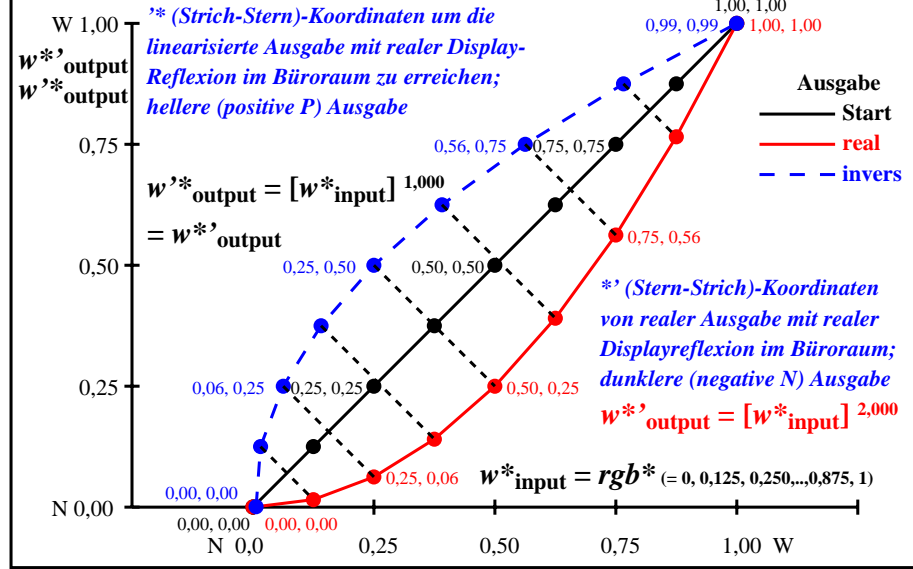
Beispiel-EPS-Code benutzt in  
<http://farbe.li.tu-berlin.de/ggs3/ggs30-1n.txt>  
<http://farbe.li.tu-berlin.de/ggs3/ggs30-1n.pdf>

Beispiel Skalierungsdaten:  
 gamma = 1,0 und 2,0

inverser Transfer von x nach y  
 und Ausgabe y

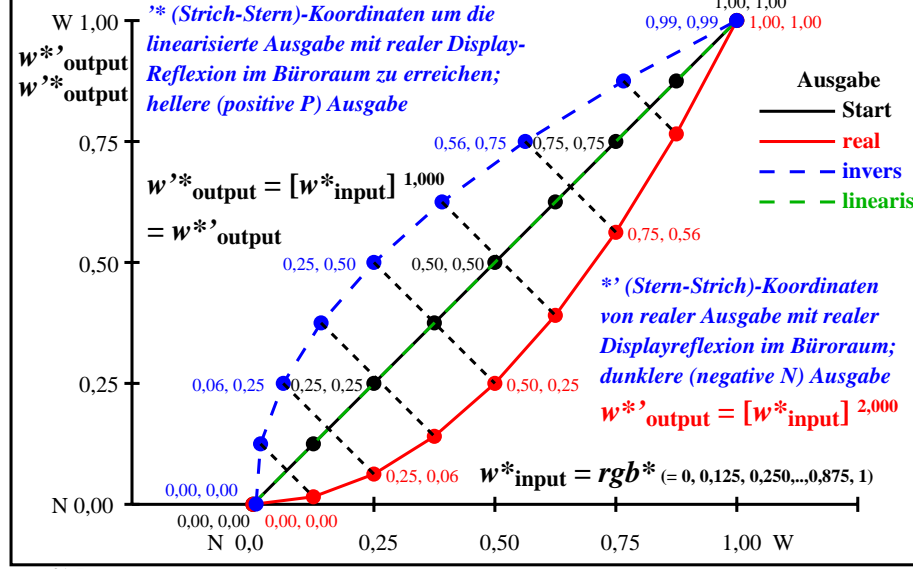
ggs00-7n

### Farbmanagement Ausgabelinearisierung einer 9stufigen Grauskala



ggs01-3n

### Farbmanagement Ausgabelinearisierung einer 9stufigen Grauskala



ggs01-7n