http://farbe.li.tu-berlin.de/ggu9/ggu9l0np.pdf /.ps; nur Vektorgrafik VG; Start-Ausgabe
Siehe separate Bilder dieser Seite: http://farbe.li.tu-berlin.de/ggu9/ggu9.htm

Siehe ähnliche Dateien der ganzen Serie: http://farbe.li.tu-berlin.de/ggus.htm
Technische Information: http://farbe.li.tu-berlin.de oder http://color.li.tu-berlin.de

TUB-Registrierung: 20240201-ggu9/ggu9l0np.pdf /.ps
Anwendung für Beurteilung und Messung von Display- oder Druck-Ausgabe

TUB-Material: Code=rha4ta

Beispiel-EPS-Code für EPS-Bilder, vergleiche http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.txt http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.pdf

```
%*****************************************************************
%BEG special definitions of Global (G) gamma and xyreh_1024
/gammaG1 21 array def
/gammaG1 %rel. gamma according to ISO 9241-306:2018
%0     1     2     3     4     5     6     7
{0.475 0.550 0.625 0.700 0.775 0.849 0.924 1.000
%8     9    10    11    12    13    14    15
 1.000 1.081 1.176 1.290 1.428 1.600 1.818 2.105
%16   17    18    19    20
 2.000 0.500 1.500 0.666 1.000} def

/indexGi 07 def                                          0 <= indexGi <= 20
/gamma gammaGi indexGi get def                           Definition von gamma(indexGi).
/xreh1 1024 array def /yreh1 1024 array def
/xinh1 1024 array def /yinh1 1024 array def

%calculation of the table xyreh_1024 (h=hex) of real values (reh) with gamma
0 1 1023 {/j exch def %j=0,1023
          xreh j j                                       put
          yreh j j 1023 div gamma exp 1023 mul cvi put   Berechnung der Tabelle xyreh_1024
        } for %j=0,1023                                  für den Wert gamma=gammaGi(indexGi).
%END special definitions of Global (G) gamma and xyreh_1024

/1MR-0000G {%BEG 1MR-0000G special and standard definitions of Global (G) procedure
%BEG special definitions of FF_LM_G
/FF_LM_xchartg_gammaG {/yend exch def
                       /yeh yed 1023 mul cvi def
                       /xinh yreh yeh get def            Anwendung der Tabelle xyreh_1024
                       xinh 1023 div                     für die schnelle Linearisierungsmethode
                     } def                               der inversen linearisierten Ausgabe.
%END special definitions of FF_LM_G

%BEG standard definitions of FF_LM_G
/FF_LM_setgrayG0 {setgray} bind def                      Die folgenden Normdefinitionen der
/FF_LM_setrgbcolorG0 {setrgbcolor} bind def              Rahmendatei-Linearisierungsmethode (FF_LM)
/FF_LM_transferG0 {settransfer} bind def                 dienen für Vektor- und Pixelgrafik.
/FF_LM_colortransferG0 {setcolortransfer} bind def       Die Definitionen sind in vielen Dateien gleich.

/setgray {%BEG procedure setgrayG
          dup dup FF_LM_setrgbcolorG
        } def %END procedure setgrayG                    Änderung setgray -> FF_LM_setrgbcolorG.

/setcmykcolor {%BEG procedure setcmykcolorF
 /FF_LM_kG exch def /FF_LM_yG exch def
 /FF_LM_mG exch def /FF_LM_cG exch def                   Änderung setcmycolor -> FF_LM_setrgbcolorG.
 FF_LM_kG 0 eq {1 FF_LM_cG sub 1 FF_LM_mG sub
                1 FF_LM_yG sub FF_LM_setrgbcolorG}
               {1 FF_LM_kG sub dup dup
                FF_LM_setrgbcolorG} ifelse
 } def %END procedure setcmykcolorG

/setrgbcolor {%BEG procedure setrgbcolorG
 /FF_LM_bG exch def /FF_LM_gG exch def
 /FF_LM_rG exch def
 FF_LM_rG FF_LM_gG FF_LM_bG
 FF_LM_setrgbcolorG                                      Änderung setrgbcolor -> FF_LM_setrgbcolorG.
 } def %BEG procedure setrgbcolorG

/FF_LM_setrgbcolorG {%BEG FF_LM_setrgbcolorG
 /FF_LM_bG0 exch def /FF_LM_gG0 exch def
 /FF_LM_rG0 exch def
 FF_LM_rG0 0 le {/FF_LM_rG0 0.0001 def} if
 FF_LM_gG0 0 le {/FF_LM_gG0 0.0001 def} if
 FF_LM_bG0 0 le {/FF_LM_bG0 0.0001 def} if
 /FF_LM_r1G FF_LM_rG0 FF_LM_xchartg_gammaG def
 /FF_LM_g1G FF_LM_gG0 FF_LM_xchartg_gammaG def
 /FF_LM_b1G FF_LM_bG0 FF_LM_xchartg_gammaG def
 FF_LM_r1G FF_LM_g1G FF_LM_b1G
 FF_LM_setrgbcolorG0} def %END FF_LM_setrgbcolorG
%END standard definitions of FF_LM_G

} def %END procedure definitions of Global (G) procedure

/iproc1MR 1 def
iproc1MR 1 eq {1MR-0000G} if
%*****************************************************************
```

ggu90–3n

Beispiel-EPS-Code für EPS-Bilder, vergl. http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.txt http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.pdf

```
%*****************************************************************
%BEG special definitions of Local (L) gamma and xyreh_1024
/gammaL1 21 array def
/gammaL1 %rel. gamma according to ISO 9241-306:2018
%0     1     2     3     4     5     6     7
{0.475 0.550 0.625 0.700 0.775 0.849 0.924 1.000
%8     9    10    11    12    13    14    15
 1.000 1.081 1.176 1.290 1.428 1.600 1.818 2.105
%16   17    18    19    20
 2.000 0.500 1.500 0.666 1.000} def

/indexLi 07 def                                          0 <= indexLi <= 20
/gamma gammaLi indexLi get def                           Definition von gamma(indexLi).
/xreh1 1024 array def /yreh1 1024 array def
/xinh1 1024 array def /yinh1 1024 array def

%calculation of the table xyreh_1024 (h=hex) of real values (reh) with gamma
0 1 1023 {/j exch def %j=0,1023
          xreh j j                                       put
          yreh j j 1023 div gamma exp 1023 mul cvi put   Berechnung der Tabelle xyreh_1024
        } for %j=0,1023                                  für den Wert gamma=gammaLi(indexLi).
%END special definitions of Local (L) gamma and xyreh_1024

/1MR-0000L {%BEG 1MR-0000L special and standard definitions of Local (L) procedure
%BEG special definitions of FF_LM_L
/FF_LM_xchartg_gammaL {/yend exch def
                       /yeh yed 1023 mul cvi def
                       /xinh yreh yeh get def            Anwendung der Tabelle xyreh_1024
                       xinh 1023 div                     für die schnelle Linearisierungsmethode
                     } def                               der inversen linearisierten Ausgabe.
%END special definitions of FF_LM_L

%BEG standard definitions of FF_LM_L
/FF_LM_setgrayL0 {setgray} bind def                      Die folgenden Normdefinitionen der
/FF_LM_setrgbcolorL0 {setrgbcolor} bind def              Rahmendatei-Linearisierungsmethode (FF_LM_L)
/FF_LM_transferL0 {settransfer} bind def                 dienen für Vektor- und Pixelgrafik.
/FF_LM_colortransferL0 {setcolortransfer} bind def       Die Definitionen sind in vielen Dateien gleich.

/setgray {%BEG procedure setgrayL
          dup dup FF_LM_setrgbcolorL
        } def %END procedure setgrayL                    Änderung setgray -> FF_LM_setrgbcolorL.

/setcmykcolor {%BEG procedure setcmykcolorL
 /FF_LM_kL exch def /FF_LM_yL exch def
 /FF_LM_mL exch def /FF_LM_cL exch def                   Änderung setcmycolor -> FF_LM_setrgbcolorL.
 FF_LM_kL 0 eq {1 FF_LM_cL sub 1 FF_LM_mL sub
                1 FF_LM_yL sub FF_LM_setrgbcolorL}
               {1 FF_LM_kL sub dup dup
                FF_LM_setrgbcolorL} ifelse
 } def %END procedure setcmykcolorL

/setrgbcolor {%BEG procedure setrgbcolorL
 /FF_LM_bL exch def /FF_LM_gL exch def
 /FF_LM_rL exch def
 FF_LM_rL FF_LM_gL FF_LM_bL
 FF_LM_setrgbcolorL                                      Änderung setrgbcolor -> FF_LM_setrgbcolorL.
 } def %BEG procedure setrgbcolorL

/FF_LM_setrgbcolorL {%BEG FF_LM_setrgbcolorL
 /FF_LM_bL0 exch def /FF_LM_gL0 exch def
 /FF_LM_rL0 exch def
 FF_LM_rL0 0 le {/FF_LM_rL0 0.0001 def} if
 FF_LM_gL0 0 le {/FF_LM_gL0 0.0001 def} if
 FF_LM_bL0 0 le {/FF_LM_bL0 0.0001 def} if
 /FF_LM_r1F FF_LM_rL0 FF_LM_xchartg_gammaL def
 /FF_LM_g1F FF_LM_gL0 FF_LM_xchartg_gammaL def
 /FF_LM_b1F FF_LM_bL0 FF_LM_xchartg_gammaL def
 FF_LM_r1F FF_LM_g1F FF_LM_b1F
 FF_LM_setrgbcolorF0} def %END FF_LM_setrgbcolorL
%END standard definitions of FF_LM_L

} def %END procedure 1MR-0000L special and standard definitions of Local (L) procedure

/iproc1MR 1 def
iproc1MR 1 eq {1MR-0000L} if
%*****************************************************************
```

ggu90–4n

```
%*****************************************************************
/Visev_FLVGF {%BEG procedure Visev_FLVGF for application of visual data
%with the method Fast Linear Visual Local File (FLVGF)

/indexGi 09 array def %for the one real data of visual evaluation
/indexGx 54 array def %for 6 different example data of visual evaluation
        %0   %1   %2   %3   %4   %5   %6   %7   %8   %F1 }
/VisevGx {0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000%16 08 gamma=2,0
          0.000 0.353 0.500 0.612 0.707 0.790 0.866 0.935 1.000%17 17 gamma=0,5
          0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000%18 20 gamma=1,5
          0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000%19 35 gamma=0,6667
          0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000%20 44 gamma=1,0
          0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000%21 53 experimental
        } def %5 53
        % the last line shall be replaced by the experimetal data, if available

0 1 8 {/j exch def %j=0,8                                Auswahl der visuellen Bewertung
       VisevGi j VisevGx indexGi 16 sub 9 mul j add get put   Beispiele: 16 <= indexGi <= 21
       } for %j=0,8

/xreh8 10 array def /yreh8 10 array def %re=real,   j=0,8
/xinh8 10 array def /yinh8 10 array def %in=invers, j=0,8
/xreq1 1025 array def /yreq1 1025 array def
/xinhj 1025 array def /yinhj 1025 array def
/xred8 10 array def /yred8 10 array def %re=real,   j=0,8
/xind8 10 array def /yind8 10 array def %in=invers, j=0,8
/xreq1 1025 array def /yreq1 1025 array def
/xindj 1025 array def /yindj 1025 array def

0 1 8 {/j exch def %j=0,8                                Berechnung der Tabelle xyreh_0009
       xred8 j j 0.125 mul   put
       yred8 j VisevFi j get put
       xind8 j yred8 j get   put
       yind8 j xred8 j get   put
       xreh8 j xred8 j get 255 mul put
       yreh8 j yred8 j get 255 mul put
       xinh8 j yind8 j get   put
       yinh8 j xreh8 j get put
     } for %j=0,8

xred8 9 001 put yred8 9 001 put xind8 9 001 put yind8 9 001 put
xreh8 9 255 put yreh8 9 255 put xinh8 9 255 put yinh8 9 255 put

0 1 7  {/k exch def %k=0,8                               Berechnung der Tabelle xyreh_1024
0 1 127 {/n exch def %n=0,127
         /j k 128 mul n add def  %j=0,1023
          xred j j 1023 div put
          yred j yred8 k 1 add get yred8 k get sub
               n 128 div mul     yred8 k get add put
          xind j j yred j j get put
          yind j j xred j j get put
        } for %n=0,127
      } for %k=1,8

0 1 1023 {/j exch def %j=0,1023
          xreh j j xred j j get 1023 mul put
          yreh j j yred j j get 1023 mul put
          xinh j j yind j j get put
          yinh j j xind j j get put
        } for %j=0,1023

xreq1 1024 0001 put yreq1 1024 0001 put xindj 1024 0001 put yindj 1024 0001 put
xreh1 1024 1023 put yreh1 1024 1023 put xinh1 1024 1023 put yinh1 1024 1023 put
} def %END procedure Visev_FLVGF for application of visual data

/FF_LM_xchartg_gammaG {%BEG procedure FF_LM_xchartg_gammaG   Anwendung der Tabelle xyreh_1024
                       /yend exch def                        für die Linearisierungsmethode
                       /yeh yed 1023 mul cvi def             der inversen linearisierten Ausgabe.
                       /xinh yreh yeh get def
                       xinh 1023 div
                     } def %END procedure FF_LM_xchartg_gammaG

%indexEi=20 may be changed here only once in the Global File (GF)
/indexEi 20 def %default for gamma=1

%The procedure Visev_FLVGF is used only once in the Global File
%The procedure 1MR-000GF, see ggu91-7n, is used only once in the Global File
%The procedure FF_LM_xchartg_gammaG is used for any rgb data set in Global File

/iproc1MR 1 def
%Test if 1MR-000GF is available, then use this procedure
%/1MR-000GF where {pop Visev_FLVGF 1MR-000GF}{Visev_FLVLF 1MR-000LF} ifelse
iproc1MR 1 eq {Visev_FLVGF 1MR-000GF} if
%*****************************************************************
```

ggu91–3n

```
%*****************************************************************
/Visev_FLVLF {%BEG procedure Visev_FLVLF for application of visual data
%with the method Fast Linear Visual Local File (FLVLF)

/indexFi 09 array def %for the one real data of visual evaluation
/indexFx 54 array def %for 6 different example data of visual evaluation
        %0   %1   %2   %3   %4   %5   %6   %7   %8   %F1 }
/VisevFx {0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000%16 08 gamma=2,0
          0.000 0.353 0.500 0.612 0.707 0.790 0.866 0.935 1.000%17 17 gamma=0,5
          0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000%18 20 gamma=1,5
          0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000%19 35 gamma=0,6667
          0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000%20 44 gamma=1,0
          0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000%21 53 experimental
        } def %5 53
        % the last line shall be replaced by the experimetal data, if available

0 1 8 {/j exch def %j=0,8                                Auswahl der visuellen Bewertung
       VisevFi j VisevFx indexFi 16 sub 9 mul j add get put   Beispiele: 16 <= indexFi <= 21
       } for %j=0,8

/xreh8 10 array def /yreh8 10 array def %re=real,   j=0,8
/xinh8 10 array def /yinh8 10 array def %in=invers, j=0,8
/xreq1 1025 array def /yreq1 1025 array def
/xinhj 1025 array def /yinhj 1025 array def
/xred8 10 array def /yred8 10 array def %re=real,   j=0,8
/xind8 10 array def /yind8 10 array def %in=invers, j=0,8
/xreq1 1025 array def /yreq1 1025 array def
/xindj 1025 array def /yindj 1025 array def

0 1 8 {/j exch def %j=0,8                                Berechnung der Tabelle xyreh_0009
       xred8 j j 0.125 mul   put
       yred8 j VisevFi j get put
       xind8 j yred8 j get   put
       yind8 j xred8 j get   put
       xreh8 j xred8 j get 255 mul put
       yreh8 j yred8 j get 255 mul put
       xinh8 j yind8 j get   put
       yinh8 j xreh8 j get put
     } for %j=0,8

xred8 9 001 put yred8 9 001 put xind8 9 001 put yind8 9 001 put
xreh8 9 255 put yreh8 9 255 put xinh8 9 255 put yinh8 9 255 put

0 1 7  {/k exch def %k=0,8                               Berechnung der Tabelle xyreh_1024
0 1 127 {/n exch def %n=0,127
         /j k 128 mul n add def  %j=0,1023
          xred j j 1023 div put
          yred j yred8 k 1 add get yred8 k get sub
               n 128 div mul     yred8 k get add put
          xind j j yred j j get put
          yind j j xred j j get put
        } for %n=0,127
      } for %k=1,8

0 1 1023 {/j exch def %j=0,1023
          xreh j j xred j j get 1023 mul put
          yreh j j yred j j get 1023 mul put
          xinh j j yind j j get put
          yinh j j xind j j get put
        } for %j=0,1023

xreq1 1024 0001 put yreq1 1024 0001 put xindj 1024 0001 put yindj 1024 0001 put
xreh1 1024 1023 put yreh1 1024 1023 put xinh1 1024 1023 put yinh1 1024 1023 put
} def %END procedure Visev_FLVLF for application of visual data

/FF_LM_xchartg_gammaF {%BEG procedure FF_LM_xchartg_gammaF   Anwendung der Tabelle xyreh_1024
                       /yend exch def                        für die Linearisierungsmethode
                       /yeh yed 1023 mul cvi def             der inversen linearisierten Ausgabe.
                       /xinh yreh yeh get def
                       xinh 1023 div
                     } def %END procedure FF_LM_xchartg_gammaF

%indexFi=20 may be changed here only once in the Local File (LF)
/indexFi 20 def %default for gamma=1

%The procedure Visev_FLVLF is used only once in the Local File
%The procedure 1MR-000LF, see ggu91-8n, is used only once in the Local File
%The procedure FF_LM_xchartg_gammaF is used for any rgb data set in Local File

/iproc1MR 1 def
%Test if 1MR-000LF is available, then use this procedure
%/1MR-000GF where {pop Visev_FLVGF 1MR-000GF}{Visev_FLVLF 1MR-000LF} ifelse
iproc1MR 1 eq {Visev_FLVLF 1MR-000LF} if
%*****************************************************************
```

ggu91–4n

```
%*****************************************************************
%BEG special definitions of Linear Visual Global File (LVGF)
indexGi 00 def
/visevGi 9 array def %visual evaluation data are calculated
indexGi 0 eq {/gamma 1.0 def %indexGi=0
%     0    1    2    3    4    5    6    7    8
/visevGi {0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000} def} if %indexGi=0
indexGi 1 eq {/gamma 2.0 def %indexGi=1
/visevGi {0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000} def} if %indexGi=1
indexGi 2 eq {/gamma 0.5 def %indexGi=2
/visevGi {0.000 0.353 0.500 0.612 0.707 0.790 0.866 0.935 1.000} def} if %indexGi=2
indexGi 3 eq {/gamma 1.5 def %indexGi=3
/visevGi {0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000} def} if %indexGi=3

/xred9 9 array def /yred9 9 array def %re=real,   j=0,8
/xind9 9 array def /yind9 9 array def %in=invers, j=0,8

0 1 8 {/j exch def %j=0,8
       xred9 j j 0.125 mul put                           Berechnung der Tabelle xyreh_0009
       yred9 j xred9 j get gamma exp put
     } for %j=0,8
%END special definitions of Linear Visual Global File (LVGF)

/1MR-0LVGF {%BEG procedure 1MR-0LVGF definitions of Linear Visual Global File (LVGF)
%BEF special definitions of FF_LM_LVGF
/FF_LM_xchartg_gammaG
     {%BEG for inverse data with linear interpolation
      /yred exch def
      yred 0 eq {/yred  0.0001 def} if                   Anwendung der Tabelle xyreh_0009
      yred 1 eq {/yred  0.9999 def} if                   für die Linearisierungsmethode
      0 1 7 {/i exch def %i=0,7                          der inversen linearisierten Ausgabe.
             yred visevGi i get ge {/im i def} if
            } for %i=0,7
      /yind yred        visevDi im get sub
      visevDi im 1 add get visevDi im get sub div def
      /xind im yind add 0.125 mul def
      xind j yind j 7 le {yred add} if put %not required
      yind j xind put                      %not required
      xind                                 %final inverse data
     } def %END for inverse data with linear interpolation
%END special definitions of FF_LM_LVGF

%BEG standard definitions of FF_LM_LVGF
/FF_LM_setgrayF0 {setgray} bind def                      Die folgenden Normdefinitionen der
/FF_LM_setrgbcolorF0 {setrgbcolor} bind def              Rahmendatei-Linearisierungsmethode (FF_LM)
/FF_LM_setcmykcolorF0 {setcmykcolor} bind def            dienen für Vektor- und Pixelgrafik.
/FF_LM_transferF0 {settransfer} bind def                 Die Definitionen sind in vielen Dateien gleich.
/FF_LM_colortransferF0 {setcolortransfer} bind def

/setgray {%BEG procedure setgrayF                        Änderung setgray -> FF_LM_setrgbcolorF.
          dup dup FF_LM_setrgbcolorF
        } def %END procedure setgrayF

/setcmykcolor {%BEG procedure setcmykcolorF              Änderung setcmycolor -> FF_LM_setrgbcolorF.
 /FF_LM_kF exch def /FF_LM_yF exch def
 /FF_LM_mF exch def /FF_LM_cF exch def
 FF_LM_kF 0 eq {1 FF_LM_cF sub 1 FF_LM_mF sub
                1 FF_LM_yF sub FF_LM_setrgbcolorF}
               {1 FF_LM_kF sub dup dup
                FF_LM_setrgbcolorF} ifelse
 } def %END procedure setcmykcolorF

/setrgbcolor {%BEG procedure setrgbcolorF                Änderung setrgbcolor -> FF_LM_setrgbcolorF.
 /FF_LM_bF exch def /FF_LM_gF exch def
 /FF_LM_rF exch def
 FF_LM_rF FF_LM_gF FF_LM_bF
 FF_LM_setrgbcolorF
 } def %BEG procedure setrgbcolorF

/FF_LM_setrgbcolorF {%BEF FF_LM_setrgbcolorF             Änderung FF_LM_setrgbcolorF -> FF_LM_setrgbcolorF0.
 /FF_LM_bF0 exch def /FF_LM_gF0 exch def
 /FF_LM_rF0 exch def
 FF_LM_rF0 0 le {/FF_LM_rF0 0.0001 def} if
 FF_LM_gF0 0 le {/FF_LM_gF0 0.0001 def} if
 FF_LM_bF0 0 le {/FF_LM_bF0 0.0001 def} if
 /FF_LM_r1F FF_LM_rF0 FF_LM_xchartg_gammaF def
 /FF_LM_g1F FF_LM_gF0 FF_LM_xchartg_gammaF def
 /FF_LM_b1F FF_LM_bF0 FF_LM_xchartg_gammaF def
 FF_LM_r1F FF_LM_g1F FF_LM_b1F
 FF_LM_setrgbcolorF0} def %END FF_LM_setrgbcolorF
%END standard definitions of FF_LM_LVGF

} def %END procedure 1MR-0LVLF definitions of Linear Visual Local File

/iproc1MR 1 def
%/1MR-0LVG where {pop 1MR-0LVGF}{1MR-0LVLF} ifelse
iproc1MR 1 eq {1MR-0LVLF} if                             Aufruf der Globalen (G) Prozedur 1MR_0LVGF.
%*****************************************************************
```

ggu90–7n

Beispiel-EPS-Code für EPS-Bilder, vergleiche http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.txt http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.pdf

```
%*****************************************************************
%BEG special definitions of Linear Visual Local File (LVLF)
indexLi 00 def
/visevLi 9 array def %visual evaluation data are calculated
indexLi 0 eq {/gamma 1.0 def %indexLi=0
%     0    1    2    3    4    5    6    7    8
/visevLi {0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000} def} if %indexLi=0
indexLi 1 eq {/gamma 2.0 def %indexLi=1
/visevLi {0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000} def} if %indexLi=1
indexLi 2 eq {/gamma 0.5 def %indexLi=2
/visevLi {0.000 0.353 0.500 0.612 0.707 0.790 0.866 0.935 1.000} def} if %indexLi=2
indexLi 3 eq {/gamma 1.5 def %indexLi=3
/visevLi {0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000} def} if %indexLi=3

/xred9 9 array def /yred9 9 array def %re=real,   j=0,8
/xind9 9 array def /yind9 9 array def %in=invers, j=0,8

0 1 8 {/j exch def %j=0,8
       xred9 j j 0.125 mul put                           Berechnung der Tabelle xyreh_0009
       yred9 j xred9 j get gamma exp put
     } for %j=0,8
%END special definitions of Linear Visual Local File (LVLF)

/1MR-0LVLF {%BEG procedure 1MR-0LVLF definitions of Linear Visual Local File (LVLF)
%BEF special definitions of FF_LM_LVLF
/FF_LM_xchartg_gammaL
     {%BEG for inverse data with linear interpolation
      /yred exch def
      yred 0 eq {/yred  0.0001 def} if                   Anwendung der Tabelle xyreh_0009
      yred 1 eq {/yred  0.9999 def} if                   für die Linearisierungsmethode
      0 1 7 {/i exch def %i=0,7                          der inversen linearisierten Ausgabe.
             yred visevLi i get ge {/im i def} if
            } for %i=0,7
      /yind yred        visevLi im get sub
      visevLi im 1 add get visevLi im get sub div def
      /xind im yind add 0.125 mul def
      xind j yind j 7 le {yred add} if put %not required
      yind j xind put                      %not required
      xind                                 %final inverse data
     } def %END for inverse data with linear interpolation
%END special definitions of FF_LM_LVLF

%BEF standard definitions of FF_LM_LVLF
/FF_LM_setgrayF0 {setgray} bind def                      Die folgenden Normdefinitionen der
/FF_LM_setrgbcolorF0 {setrgbcolor} bind def              Rahmendatei-Linearisierungsmethode (FF_LM)
/FF_LM_setcmykcolorF0 {setcmykcolor} bind def            dienen für Vektor- und Pixelgrafik.
/FF_LM_transferF0 {settransfer} bind def                 Die Definitionen sind in vielen Dateien gleich.
/FF_LM_colortransferF0 {setcolortransfer} bind def

/setgray {%BEG procedure setgrayF                        Änderung setgray -> FF_LM_setrgbcolorF.
          dup dup FF_LM_setrgbcolorF
        } def %END procedure setgrayF

/setcmykcolor {%BEG procedure setcmykcolorF              Änderung setcmycolor -> FF_LM_setrgbcolorF.
 /FF_LM_kF exch def /FF_LM_yF exch def
 /FF_LM_mF exch def /FF_LM_cF exch def
 FF_LM_kF 0 eq {1 FF_LM_cF sub 1 FF_LM_mF sub
                1 FF_LM_yF sub FF_LM_setrgbcolorF}
               {1 FF_LM_kF sub dup dup
                FF_LM_setrgbcolorF} ifelse
 } def %END procedure setcmykcolorF

/setrgbcolor {%BEG procedure setrgbcolorF                Änderung setrgbcolor -> FF_LM_setrgbcolorF.
 /FF_LM_bF exch def /FF_LM_gF exch def
 /FF_LM_rF exch def
 FF_LM_rF FF_LM_gF FF_LM_bF
 FF_LM_setrgbcolorF
 } def %BEG procedure setrgbcolorF

/FF_LM_setrgbcolorF {%BEF FF_LM_setrgbcolorF             Änderung FF_LM_setrgbcolorF -> FF_LM_setrgbcolorF0.
 /FF_LM_bF0 exch def /FF_LM_gF0 exch def
 /FF_LM_rF0 exch def
 FF_LM_rF0 0 le {/FF_LM_rF0 0.0001 def} if
 FF_LM_gF0 0 le {/FF_LM_gF0 0.0001 def} if
 FF_LM_bF0 0 le {/FF_LM_bF0 0.0001 def} if
 /FF_LM_r1F FF_LM_rF0 FF_LM_xchartg_gammaF def
 /FF_LM_g1F FF_LM_gF0 FF_LM_xchartg_gammaF def
 /FF_LM_b1F FF_LM_bF0 FF_LM_xchartg_gammaF def
 FF_LM_r1F FF_LM_g1F FF_LM_b1F
 FF_LM_setrgbcolorF0} def %END FF_LM_setrgbcolorF
%END standard definitions of FF_LM_LVLF

} def %END procedure 1MR-0LVLF definitions of Linear Visual Local File

/iproc1MR 1 def
%/1MR-0LVG where {pop 1MR-0LVGF}{1MR-0LVLF} ifelse
iproc1MR 1 eq {1MR-0LVLF} if                             Aufruf der Lokalen (L) Prozedur 1MR_0LVLF.
%*****************************************************************
```

ggu90–8n

Beispiel-EPS-Code für EPS-Bilder, vergleiche http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.txt http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.pdf

```
%*****************************************************************
/1MR-000GF {%BEG procedure 1MR-000GF of Global File (GF) data

%BEG standard definitions of Frame File Linearisation Method FF_LM
%This code is usually in the Global File (GF), a similar one may be in the Local File (LF)
% This code shall be always at the beginning of the Global File
/FF_LM_setgrayG0 {setgray} bind def
/FF_LM_setrgbcolorG0 {setrgbcolor} bind def
/FF_LM_setcmykcolorG0 {setcmykcolor} bind def
/FF_LM_transferG0 {settransfer} bind def
/FF_LM_colortransferG0 {setcolortransfer} bind def

/setgray {%BEG procedure setgrayG                        Änderung setgray -> FF_LM_setrgbcolorG.
          dup dup FF_LM_setrgbcolorG
        } def %END procedure setgrayG

/setcmykcolor {%BEG procedure setcmykcolorG              Änderung setcmycolor -> FF_LM_setrgbcolorG.
 /FF_LM_kG exch def /FF_LM_yG exch def
 /FF_LM_mG exch def /FF_LM_cG exch def
 FF_LM_kG 0 eq {1 FF_LM_cG sub 1 FF_LM_mG sub
                1 FF_LM_yG sub FF_LM_setrgbcolorG}
               {1 FF_LM_kG sub dup dup
                FF_LM_setrgbcolorG} ifelse
 } def %END procedure setcmykcolorG

/setrgbcolor {%BEG procedure setrgbcolorG                Änderung setrgbcolor -> FF_LM_setrgbcolorG.
 /FF_LM_bG exch def /FF_LM_gG exch def
 /FF_LM_rG exch def
 FF_LM_rG FF_LM_gG FF_LM_bG
 FF_LM_setrgbcolorG
 } def %BEG procedure setrgbcolorG

/FF_LM_setrgbcolorG {%BEG FF_LM_setrgbcolorG             Änderung FF_LM_setrgbcolorG -> FF_LM_setrgbcolorG0.
 /FF_LM_bG0 exch def /FF_LM_gG0 exch def
 /FF_LM_rG0 exch def
 FF_LM_rG0 0 le {/FF_LM_rG0 0.0001 def} if
 FF_LM_gG0 0 le {/FF_LM_gG0 0.0001 def} if
 FF_LM_bG0 0 le {/FF_LM_bG0 0.0001 def} if
 /FF_LM_r1G FF_LM_rG0 FF_LM_xchartg_gammaG def
 /FF_LM_g1G FF_LM_gG0 FF_LM_xchartg_gammaG def
 /FF_LM_b1G FF_LM_bG0 FF_LM_xchartg_gammaG def
 FF_LM_r1G FF_LM_g1G FF_LM_b1G
 FF_LM_setrgbcolorG0} def %END FF_LM_setrgbcolorG

/FF_LM_transferG {%BEG FF_LM_transferG                   Änderung settransferG -> FF_LM_settransferG0.
 {FF_LM_xchartg_gammaG}
 FF_LM_transferG0} def %END FF_LM_transferG
/settransfer {FF_LM_transferG} def

/FF_LM_colortransferG {%BEG FF_LM_colortransferG         Änderung setcolortransferG -> FF_LM_setcolortransferG0.
 {FF_LM_xchartg_gammaG} {FF_LM_xchartg_gammaG}
 {FF_LM_xchartg_gammaG}
 FF_LM_colortransferG0} def
%END FF_LM_colortransferG
/setcolortransfer {FF_LM_colortransferG} def
%END standard definitions of FF_LM_G

} def %END procedure 1MR-000GF of Global File (GF)

%Remark:
%The procedure 1MR-000GF may be called in the Global File (GF)
%after definition of this procedure
%*****************************************************************
```

ggu91–7n

Beispiel-EPS-Code für EPS-Bilder, vergleiche http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.txt http://farbe.li.tu-berlin.de/fgk9/fgk9f1p0.pdf

```
%*****************************************************************
/1MR-000LF {%BEG procedure 1MR-000LF of Local File (LF) data

%BEG standard definitions of Frame File Linearisation Method FF_LM
%This code is usually in the Local File (LF) or a similar one in the Global File (GF)
% This code shall be always at the beginning of the Local File
/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

/setgray {%BEG procedure setgrayF                        Änderung setgray -> FF_LM_setrgbcolorF.
          dup dup FF_LM_setrgbcolorF
        } def %END procedure setgrayF

/setcmykcolor {%BEG procedure setcmykcolorF              Änderung setcmycolor -> FF_LM_setrgbcolorF.
 /FF_LM_kF exch def /FF_LM_yF exch def
 /FF_LM_mF exch def /FF_LM_cF exch def
 FF_LM_kF 0 eq {1 FF_LM_cF sub 1 FF_LM_mF sub
                1 FF_LM_yF sub FF_LM_setrgbcolorF}
               {1 FF_LM_kF sub dup dup
                FF_LM_setrgbcolorF} ifelse
 } def %END procedure setcmykcolorF

/setrgbcolor {%BEG procedure setrgbcolorF                Änderung setrgbcolor -> FF_LM_setrgbcolorF.
 /FF_LM_bF exch def /FF_LM_gF exch def
 /FF_LM_rF exch def
 FF_LM_rF FF_LM_gF FF_LM_bF
 FF_LM_setrgbcolorF
 } def %BEG procedure setrgbcolorF

/FF_LM_setrgbcolorF {%BEG FF_LM_setrgbcolorF             Änderung FF_LM_setrgbcolorF -> FF_LM_setrgbcolorF0.
 /FF_LM_bF0 exch def /FF_LM_gF0 exch def
 /FF_LM_rF0 exch def
 FF_LM_rF0 0 le {/FF_LM_rF0 0.0001 def} if
 FF_LM_gF0 0 le {/FF_LM_gF0 0.0001 def} if
 FF_LM_bF0 0 le {/FF_LM_bF0 0.0001 def} if
 /FF_LM_r1F FF_LM_rF0 FF_LM_xchartg_gammaF def
 /FF_LM_g1F FF_LM_gF0 FF_LM_xchartg_gammaF def
 /FF_LM_b1F FF_LM_bF0 FF_LM_xchartg_gammaF def
 FF_LM_r1F FF_LM_g1F FF_LM_b1F
 FF_LM_setrgbcolorF0} def %END FF_LM_setrgbcolorF

/FF_LM_transferF {%BEG FF_LM_transferF                   Änderung settransferF -> FF_LM_settransferF0.
 {FF_LM_xchartg_gammaF}
 FF_LM_transferF0} def %END FF_LM_transferF
/settransfer {FF_LM_transferF} def

/FF_LM_colortransferF {%BEG FF_LM_colortransferF         Änderung setcolortransferF -> FF_LM_setcolortransferF0.
 {FF_LM_xchartg_gammaF} {FF_LM_xchartg_gammaF}
 {FF_LM_xchartg_gammaF}
 FF_LM_colortransferF0} def
%END FF_LM_colortransferF
/setcolortransfer {FF_LM_colortransferF} def
%END standard definitions of Frame File Linearisation Method FF_LM

} def %END procedure 1MR-000LF of Local File (LF) data

%Remark:
%The procedure 1MR-000LF may be called in the Local File (LF)
%after definition of this procedure
%*****************************************************************
```

ggu91–8n

TUB-Prüfvorlage ggu9; EPS−Beispielcode von EPS−Bildern, siehe zum Beispiel EPS−Code in http://farbe.li.tu−berlin.de/ggy1/ggy1l0np.txt und Bild http://farbe.li.tu−berlin.de/ggy1/ggy1l0np.pdf