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


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%*******************************************************
/proc05_gammaG_xyreh {%BEG proc05_gammaG_xyreh          %BEG proc05_gammaG_xyreh
%BEG Global (G) gamma and calculation of xyreh_1024
/gammaGi 21 array def
/gammaGi %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

/gamma gammaGi indexGi get def
/xrehj 1024 array def /yrehj 1024 array def
/xinhj 1024 array def /yinhj 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
          xrehj j j                                  put
          yrehj j j 1023 div gamma exp 1023 mul cvi put
         } for %j=0,1023
/proc06_FF_LM_FLVGF {%BEG proc06_FF_LM_FLVGF            %BEG proc06_FF_LM_FLVGF
                      /yed exch def
                      /yeh yed 1023 mul cvi def
                      /xinh yrehj yeh get def
                      xinh 1023 div
                     } def %END proc06_FF_LM_FLVGF      %END proc06_FF_LM_FLVGF

} def %END proc05_gammaG_xyreh                          %END proc05_gammaG_xyreh
%*******************************************************
/proc00_1MR_FLVGF {%BEG proc00_1MR_FLVGF                %BEG proc00_FF_LM_FLVGF
%main procedure Fast Linear Visual Local File (FLVGF)

/FF_LM_setgrayFLVGF0 {setgray} bind def
/FF_LM_setrgbcolorFLVGF0 {setrgbcolor} bind def
/FF_LM_setcmykcolorFLVGF0 {setcmykcolor} bind def
/FF_LM_transferFLVGF0 {settransfer} bind def
/FF_LM_colortransferFLVGF0 {setcolortransfer} bind def

/setgray {%BEG procedure setgrayFLVGF                   setgray -> FF_LM_setrgbcolorG
          dup dup FF_LM_setrgbcolorFLVGF
         } def %END procedure setgrayFLVGF

/setcmykcolor {%BEG procedure setcmykcolorFLVGF         setcmykcolor -> FF_LM_setrgbcolorG
/FF_LM_kFLVGF exch def /FF_LM_yFLVGF exch def
/FF_LM_mFLVGF exch def /FF_LM_cFLVGF exch def
FF_LM_kFLVGF 0 eq {1 FF_LM_cFLVGF sub 1 FF_LM_mFLVGF sub
                   1 FF_LM_yFLVGF sub FF_LM_setrgbcolorFLVGF}
                  {1 FF_LM_kFLVGF sub dup dup
                   FF_LM_setrgbcolorFLVGF} ifelse
 } def %END procedure setcmykcolorFLVGF

/setrgbcolor {%BEG procedure setrgbcolorFLVGF           setrgbcolor -> FF_LM_setrgbcolorG
 /FF_LM_bFLVGF exch def /FF_LM_gFLVGF exch def
 /FF_LM_rFLVGF exch def
 FF_LM_rFLVGF FF_LM_gFLVGF FF_LM_bFLVGF
 FF_LM_setrgbcolorFLVGF
 } def %BEG procedure setrgbcolorFLVGF

/FF_LM_setrgbcolorFLVGF {%BEG FF_LM_setrgbcolorFLVGF    FF_LM_setrgbcolorG -> FF_LM_setrgbcolorG0
 /FF_LM_b0FLVGF exch def /FF_LM_g0FLVGF exch def
 /FF_LM_r0FLVGF exch def
 FF_LM_r0FLVGF 0 le {/FF_LM_r0FLVGF 0.0001 def} if
 FF_LM_g0FLVGF 0 le {/FF_LM_g0FLVGF 0.0001 def} if
 FF_LM_b0FLVGF 0 le {/FF_LM_b0FLVGF 0.0001 def} if
 /FF_LM_r1FLVGF FF_LM_r0FLVGF proc06_FF_LM_FLVGF def
 /FF_LM_g1FLVGF FF_LM_g0FLVGF proc06_FF_LM_FLVGF def
 /FF_LM_b1FLVGF FF_LM_b0FLVGF proc06_FF_LM_FLVGF def
 FF_LM_r1FLVGF FF_LM_g1FLVGF FF_LM_b1FLVGF
 FF_LM_setrgbcolorFLVGF0} def %END FF_LM_setrgbcolorFLVGF

/FF_LM_transferFLVGF {%BEG FF_LM_transferFLVGF          settransferG -> FF_LM_settransferG0
 {proc06_FF_LM_FLVGF}
 FF_LM_transferFLVGF0} def %END FF_LM_transferFLVGF
/settransfer {FF_LM_transferFLVGF} def

/FF_LM_colortransferFLVGF {%BEG FF_LM_colortransferFLVGF setcolortransferG->FF_LM_setcolortransferG0
 {proc06_FF_LM_FLVGF} {proc06_FF_LM_FLVGF}
 {proc06_FF_LM_FLVGF}
 FF_LM_colortransferFLVGF0} def
/setcolortransfer {FF_LM_colortransferFLVGF} def
} def %END proc00_1MR_FLVGF                             %END proc00_FF_LM_FLVGF
%*******************************************************
/indexGi 07 def %default for gammaG=1.000
/iproc1MR 1 def %optional application example
iproc1MR 1 eq {%main Frame_File_Linearisation_Method (FF_LM)%Beispiel: kombinierte Prozedur
               proc00_1MR_FLVGF proc05_gammaG_xyreh} if
%*******************************************************
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%*******************************************************
/proc00_7data_FLVGF {%BEG proc00_7data_FLVGF            %BEG proc01_7data_FLVGF
%The procedure proc01_7data_FLVGF is used only once in Global File
/VisexGi 09 array def %for the one real data of visual evaluation
/VisexGx 54 array def %for 6 different example data of visual evaluation
          %0    %1    %2    %3    %4    %5    %6    %7    %8    %Fi j
/VisexGx [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 26 gamma=1,5
          0.000 0.250 0.397 0.520 0.630 0.731 0.825 0.915 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
       VisexGi j VisexGx indexGi 16 sub 9 mul j add get put
       } for %j=0,8
 } def %END proc01_7data_FLVGF                          %END proc01_7data_FLVGF
%*******************************************************
/proc02_Visev_FLVGF {%BEG proc02_Visev_FLVGF            %BEG proc02_Visev_FLVGF
%for visual data with Fast Linear Visual Local File (FLVGF)
%The procedure proc01_7data_FLVGF is used only once in Local File
/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
/xrehj 1025 array def /yrehj 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
/xredj 1025 array def /yredj 1025 array def
/xindj 1025 array def /yindj 1025 array def

0 1 8 {/j exch def %j=0,8
       xred8 j j 0.125 mul   put
       yred8 j VisexGi 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 yreh8 j get put
       yinh8 j xreh8 j get put
      } for %j=0,8

xred8 9   1 put yred8 9   1 put
xind8 9   1 put yind8 9   1 put
xreh8 9 255 put yreh8 9 255 put
xind8 9 255 put yind8 9 255 put

%j=0,1023
0 1 7   {/k exch def %k=0,8
0 1 127 {/n exch def %n=0,127
         /j k 128 mul n add def
          xredj j j 1023 div put
          yredj j yred8 k 1 add get yred8 k get sub
                n 128 div mul     yred8 k get add put
          xindj j yredj j get put
          yindj j xredj j get put
         } for %n=0,127
        } for %k=1,8

0 1 1023 {/j exch def %j=0,1023
          xrehj j xredj j get 1023 mul put
          yrehj j yredj j get 1023 mul put
          xinhj j yredj j get put
          yinhj j xredj j get put
         } for %j=0,1023
xredj 1024    1 put yredj 1024    1 put
xindj 1024    1 put yindj 1024    1 put
xrehj 1024 1023 put yrehj 1024 1023 put
xinhj 1024 1023 put yinhj 1024 1023 put
} def %END proc01_Visev_FLVGF                           %END proc02_Visev_FLVGF
%*******************************************************
/proc00_FF_LM_FLVGF {%BEG proc00_FF_LM_FLVFL            %BEG proc00_FF_LM_FLVGF
%This procedure is used for any rgb data in proc00_1MR_FLVGF
                     /yed exch def
                     /yeh yed 1023 mul cvi def
                     /xinh yrehj yeh get def
                     xinh 1023 div
                    } def
%END proc00_FF_LM_FLVFL                                 %END proc00_FF_LM_FLVGF
%*******************************************************
/indexGi 07 def %default for gammaG=1.000
/iproc1MR 1 def %optional application example
iproc1MR 1 eq {%main program Frame_File_Linearisation_Method (FF_LM)  %Beispiel: kombinierte Prozedur
       proc00_1MR_FLVGF proc01_7data_FLVGF proc02_Visev_FLVGF} if
%*******************************************************
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