

<http://farbe.li.tu-berlin.de/hec2/hec210np.pdf> /.ps; only vector graphic VG; start output
see separate images of this page: <http://farbe.li.tu-berlin.de/hec2/hec2.htm>

```
*****  
/proc05_gammaG_xyreh {%BEG proc05_gammaG_xyreh %BEG proc05_gammaG_xyreh  
%BEG Global (G) gamma and calculation of xyreh_1024  
/gammaG 21 array def  
/gammaGi %rel, gamma according to ISO 9240-706:2018  
%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  
/yeh exch def  
/yeh yeh 1023 mul cvi def  
/xinh yrehj yeh get def  
xinh 1023 div  
} def %END proc06_FF_LM_FLVGF  
  
} def %END proc05_gammaG_xyreh %END proc05_gammaG_xyreh  
*****  
/proc00_LMR_FLVGF {%BEG proc00_LMR_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_LMR_FLVGF %END proc00_FF_LM_FLVGF  
*****  
0 1 20 {/indexGi exch def %loop for 21 Global gammaG values  
/iproclMR 1 def %optional application example  
iproclMR 1 eq {%main Frame_File_Linearisation_Method (FF_LM)%Example: combined procedure  
proc00_LMR_FLVGF proc05_gammaG_xyreh} if  
*****
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*****  
/proc04_7data_FLVGF {%BEG proc04_7data_FLVGF %BEG proc04_7data_FLVGF  
%The procedure proc04_7data_FLVGF is used only once in Global File  
/VisevEi 07 array def %for real data (i=0,6) of visual evaluation  
%0,e08 1,e24 2,e8 3,e02 4,e24 5,e46 6,e68 %indexG  
[0.500 0.500 0.500 0.500 0.500 0.500 0.500] %7data, for manual change  
/al VisevEx 0 get def %BEG calculation VisevEi (i=0,8) from 7data  
/b1 al VisevEx 1 get mul def %b1  
/b2 al def %b2  
/b3 1 b2 sub VisevEx 2 get mul b2 add def %b3  
/VisevGi 09 array def %for real data (i=0,8) of visual evaluation  
VisevGi 0 0 put  
VisevGi 1 b1 0 sub VisevEi 3 get mul put %c1  
VisevGi 2 b1 put %c2  
VisevGi 3 b2 b1 sub VisevEi 4 get mul b1 add put %c3  
VisevGi 4 b2 put %c4  
VisevGi 5 b3 b2 sub VisevEi 5 get mul b2 add put %c5  
VisevGi 6 b3 put %c6  
VisevGi 7 1 b3 sub VisevEi 6 get mul b3 add put %c7  
VisevGi 8 1 put  
} def %END proc04_7data_FLVGF %END proc04_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 VisevEi 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 %k=1,8  
} for %j=0,1023  
  
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_FLVGF %BEG proc00_FF_LM_FLVGF  
%This procedure is used for any rgb data in proc00_LMR_FLVGF  
/yeh exch def  
/yeh yeh 1023 mul cvi def  
/xinh yrehj yeh get def  
xinh 1023 div  
} def  
} def %END proc00_FF_LM_FLVGF %END proc00_FF_LM_FLVGF  
*****  
%default experimental, no gammaG value  
/iproclMR 1 def %optional application example  
iproclMR 1 eq {%main program Frame_File_Linearisation_Method (FF_LM) %Example: combined procedure  
proc00_LMR_FLVGF proc04_7data_FLVGF proc02_Visev_FLVGF} if  
*****
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TUB-test chart hec2; EPS-example code of eps images, see EPS code FLVGF within
<http://color.li.tu-berlin.de/hec0/hec010np.txt> and in images <http://color.li.tu-berlin.de/hecs.htm>

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technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hec2/hec210np.pdf /.ps
application for evaluation and measurement of display or print output
TUB material: code=rh4ta