

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

```
*****
%BEG Frame File Linearization Method FF_LM, real (re) hex (h) and decimal (d)
0 setgray
0 0 moveto 6000 0 rlineto 0 4000 rlineto %relative square
-6000 0 rlineto closepath stroke %60mm x 40 mm
ExampleB3EPSB3Code ist benutzt in
http://farbe.li.tu-berlin.de/ggt1/ggt11-3n.txt
http://farbe.li.tu-berlin.de/ggt1/ggt11-3n.pdf

/xdd 050 def /ydd 138 def %x-position and line difference
TBL 0 setgray %font, size and black color
xdd 3820 moveto %top position and table text
(Table xyreh_1024 in hex (h 0:1023) calculated with xrehj=j & gamma) show
Haupttabellentext

/xrehj 1024 array def /yrehj 1024 array def %real data hex (h)
/xredj 1024 array def /yredj 1024 array def %real data decimal (d)
/xinhj 1024 array def /yinhj 1024 array def %invers data hex (h)
/xindj 1024 array def /yindj 1024 array def %invers data decimal (d)

/gamma 2.000 def %possible gamma changes: 1,0 -> 2,0, 0,5, 1,5, 0,667
%calculation of the table xyreh1024 (h=hex) of 1024 values (h 0:1023) with gamma
0 1 1023 {/j exch def %j=0,1023
xrehj j j put %BEG h 0:1023
xredj j j 1023 div put %decimal (d 0:1,000)
yredj j j 1023 div gamma exp put %decimal (d 0:1,000)
yrehj j yredj j get 1023 mul cvi put %END h 0:1023
} for %j=0,1023

TBV /yw0 3650 def xdd yw0 moveto %font, size, position
(Table xyreh_1024, basic real data in hex (h, 0:1023) between x and y, ) show
1 0 0 setrgbcolor (gamma=) show gamma cvsshows3g 0 setgray %gamma value in red
Teiltabellentext

TW /yw1 yw0 1.1 ydd mul sub def %font, size, position
0 1 0259 {/j exch def %j=0,0259
/j0 j 10 idiv def
/jd j j0 10 mul sub def
xdd jd 600 mul add yw1 j0 ydd mul sub moveto
xrehj j get cvishow ( ) show yredj j get cvsshows3g %output
} for %j=0,0259
Ausgabe xrehj, yredj

%END Frame File Linearization Method FF_LM, real (re) hex (h) and decimal (d)
*****
ggt10-3n
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**Tabelle xyreh\_1024, hex (h 0:1023) berechnet mit xrehj=j und gamma**  
**Tabelle xyreh\_1024, reale Basisdaten hex (h, 0:1023) zwischen x und y, gamma=2,000**

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 0    | 1 0    | 2 0    | 3 0    | 4 0    | 5 0    | 6 0    | 7 0    | 8 0    | 9 0    |
| 10 0   | 11 0   | 12 0   | 13 0   | 14 0   | 15 0   | 16 0   | 17 0   | 18 0   | 19 0   |
| 20 0   | 21 0   | 22 0   | 23 0   | 24 0   | 25 0   | 26 0   | 27 0   | 28 0   | 29 0   |
| 30 0   | 31 0   | 32 1   | 33 1   | 34 1   | 35 1   | 36 1   | 37 1   | 38 1   | 39 1   |
| 40 1   | 41 1   | 42 1   | 43 1   | 44 1   | 45 1   | 46 2   | 47 2   | 48 2   | 49 2   |
| 50 2   | 51 2   | 52 2   | 53 2   | 54 2   | 55 2   | 56 3   | 57 3   | 58 3   | 59 3   |
| 60 3   | 61 3   | 62 3   | 63 3   | 64 4   | 65 4   | 66 4   | 67 4   | 68 4   | 69 4   |
| 70 4   | 71 4   | 72 5   | 73 5   | 74 5   | 75 5   | 76 5   | 77 5   | 78 5   | 79 6   |
| 80 6   | 81 6   | 82 6   | 83 6   | 84 6   | 85 7   | 86 7   | 87 7   | 88 7   | 89 7   |
| 90 7   | 91 8   | 92 8   | 93 8   | 94 8   | 95 8   | 96 9   | 97 9   | 98 9   | 99 9   |
| 100 9  | 101 9  | 102 10 | 103 10 | 104 10 | 105 10 | 106 10 | 107 11 | 108 11 | 109 11 |
| 110 11 | 111 12 | 112 12 | 113 12 | 114 12 | 115 12 | 116 13 | 117 13 | 118 13 | 119 13 |
| 120 14 | 121 14 | 122 14 | 123 14 | 124 15 | 125 15 | 126 15 | 127 15 | 128 16 | 129 16 |
| 130 16 | 131 16 | 132 17 | 133 17 | 134 17 | 135 17 | 136 18 | 137 18 | 138 18 | 139 18 |
| 140 19 | 141 19 | 142 19 | 143 19 | 144 20 | 145 20 | 146 20 | 147 21 | 148 21 | 149 21 |
| 150 21 | 151 22 | 152 22 | 153 22 | 154 23 | 155 23 | 156 23 | 157 24 | 158 24 | 159 24 |
| 160 25 | 161 25 | 162 25 | 163 25 | 164 26 | 165 26 | 166 26 | 167 27 | 168 27 | 169 27 |
| 170 28 | 171 28 | 172 28 | 173 29 | 174 29 | 175 29 | 176 30 | 177 30 | 178 30 | 179 31 |
| 180 31 | 181 32 | 182 32 | 183 32 | 184 33 | 185 33 | 186 33 | 187 34 | 188 34 | 189 34 |
| 190 35 | 191 35 | 192 36 | 193 36 | 194 36 | 195 37 | 196 37 | 197 37 | 198 38 | 199 38 |
| 200 39 | 201 39 | 202 39 | 203 40 | 204 40 | 205 41 | 206 41 | 207 41 | 208 42 | 209 42 |
| 210 43 | 211 43 | 212 43 | 213 44 | 214 44 | 215 45 | 216 45 | 217 46 | 218 46 | 219 46 |
| 220 47 | 221 47 | 222 48 | 223 48 | 224 49 | 225 49 | 226 49 | 227 50 | 228 50 | 229 51 |
| 230 51 | 231 52 | 232 52 | 233 53 | 234 53 | 235 53 | 236 54 | 237 54 | 238 55 | 239 55 |
| 240 56 | 241 56 | 242 57 | 243 57 | 244 58 | 245 58 | 246 59 | 247 59 | 248 60 | 249 60 |
| 250 61 | 251 61 | 252 62 | 253 62 | 254 63 | 255 63 | 256 64 | 257 64 | 258 65 | 259 65 |

Für gamma=2 und j=0 bis 1023: xrehj=yinhj=j, yrehj=xinhj, xrehj=xredj/1023  
ggt11-3n

```
*****
%BEG Frame File Linearization Method FF_LM, real (re), invers (in), hex (h), decimal (d)
/xdd 050 def /ydd 133 def %x-position and line difference
TBL 0 setgray %font, size and black color
xdd 3820 moveto %top position and table text
(Table xyinh_1024 produced by FF_LM_xchart_gamma from xyreh_1024) show
Haupttabellentext

/xrehj 1024 array def /yrehj 1024 array def %real data hex (h)
/xredj 1024 array def /yredj 1024 array def %real data decimal (d)
/xinhj 1024 array def /yinhj 1024 array def %inverse (in) data hex (h)
/xindj 1024 array def /yindj 1024 array def %invers (in) data decimal (d)
TBV /yw0 3650 def %font, size, position
xdd yw0 moveto
(Table xyinh_1024, invers data in hex (h, 0:1023) for xyreh_1024 (h, 0:1023), ) show,
1 0 0 setrgbcolor (gamma=) show gamma cvsshows3g 0 setgray
Teiltabellentext

%procedure for transfer xrehj, yrehj -> xinhj, yinhj
%use of the table data xyreh1024 (h=hex) of real values (reh) with gamma
/FF_LM_xchart_gammaF {%BEG /FF_LM_xchart_gammaF 240715
/yreh exch def %0<= yreh <=1023
xinhj j yrehj yreh get put %invers data yrehj->xinhj
yinhj j xrehj yreh get put %invers data xrehj->yinhj
yinhj j get %output of yinhj
} def %END /FF_LM_xchart_gammaF 240715

%Application of FF_LM_xchart_gammaF and output
TW /yw1 yw0 1.1 ydd mul sub def
0 1 0259 {/j exch def %j=0,0259
xrehj j get FF_LM_xchart_gammaF
%available now xinhj, yinhj
xindj j xinhj j get 1023 div put
yindj j yinhj j get 1023 div put
/j0 j 10 idiv def /jd j j0 10 mul sub def
xdd jd 600 mul add yw1 j0 ydd mul sub moveto
xinhj j get cvishow ( ) show yinhj j get cvishow
} for %j=0,0259
Ausgabe xinhj, yinhj

(For gamma=2 and j=0,1023: xinhj=yrehj, yinhj=xrehj=j, ) show
(similar for decimal values xindj=yredj, yindj=xredj=xrehj/1023) show
%END Frame File Linearization Method FF_LM, real (re) hex (h) and decimal (d)
*****
ggt10-7n
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**Tabelle xyinh\_1024 erzeugt mit FF\_LM\_xchart\_gamma und xyreh\_1024**  
**Tabelle xyinh\_1024, inverse Daten hex (h, 0:1023) zu xyreh\_1024 (h, 0:1023), gamma=2,000**

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 0    | 0 1    | 0 2    | 0 3    | 0 4    | 0 5    | 0 6    | 0 7    | 0 8    | 0 9    |
| 0 10   | 0 11   | 0 12   | 0 13   | 0 14   | 0 15   | 0 16   | 0 17   | 0 18   | 0 19   |
| 0 20   | 0 21   | 0 22   | 0 23   | 0 24   | 0 25   | 0 26   | 0 27   | 0 28   | 0 29   |
| 0 30   | 0 31   | 1 32   | 1 33   | 1 34   | 1 35   | 1 36   | 1 37   | 1 38   | 1 39   |
| 1 40   | 1 41   | 1 42   | 1 43   | 1 44   | 1 45   | 2 46   | 2 47   | 2 48   | 2 49   |
| 2 50   | 2 51   | 2 52   | 2 53   | 2 54   | 2 55   | 3 56   | 3 57   | 3 58   | 3 59   |
| 3 60   | 3 61   | 3 62   | 3 63   | 4 64   | 4 65   | 4 66   | 4 67   | 4 68   | 4 69   |
| 4 70   | 4 71   | 5 72   | 5 73   | 5 74   | 5 75   | 5 76   | 5 77   | 5 78   | 6 79   |
| 6 80   | 6 81   | 6 82   | 6 83   | 6 84   | 7 85   | 7 86   | 7 87   | 7 88   | 7 89   |
| 7 90   | 8 91   | 8 92   | 8 93   | 8 94   | 8 95   | 9 96   | 9 97   | 9 98   | 9 99   |
| 9 100  | 9 101  | 10 102 | 10 103 | 10 104 | 10 105 | 10 106 | 11 107 | 11 108 | 11 109 |
| 11 110 | 12 111 | 12 112 | 12 113 | 12 114 | 12 115 | 13 116 | 13 117 | 13 118 | 13 119 |
| 14 120 | 14 121 | 14 122 | 14 123 | 15 124 | 15 125 | 15 126 | 15 127 | 16 128 | 16 129 |
| 16 130 | 16 131 | 17 132 | 17 133 | 17 134 | 17 135 | 18 136 | 18 137 | 18 138 | 18 139 |
| 19 140 | 19 141 | 19 142 | 19 143 | 20 144 | 20 145 | 20 146 | 21 147 | 21 148 | 21 149 |
| 21 150 | 22 151 | 22 152 | 22 153 | 23 154 | 23 155 | 23 156 | 24 157 | 24 158 | 24 159 |
| 25 160 | 25 161 | 25 162 | 25 163 | 26 164 | 26 165 | 26 166 | 27 167 | 27 168 | 27 169 |
| 28 170 | 28 171 | 28 172 | 29 173 | 29 174 | 29 175 | 30 176 | 30 177 | 30 178 | 31 179 |
| 31 180 | 32 181 | 32 182 | 32 183 | 33 184 | 33 185 | 33 186 | 34 187 | 34 188 | 34 189 |
| 35 190 | 35 191 | 36 192 | 36 193 | 36 194 | 37 195 | 37 196 | 37 197 | 38 198 | 38 199 |
| 39 200 | 39 201 | 39 202 | 40 203 | 40 204 | 41 205 | 41 206 | 41 207 | 42 208 | 42 209 |
| 43 210 | 43 211 | 43 212 | 44 213 | 44 214 | 45 215 | 45 216 | 46 217 | 46 218 | 46 219 |
| 47 220 | 47 221 | 48 222 | 48 223 | 49 224 | 49 225 | 49 226 | 50 227 | 50 228 | 51 229 |
| 51 230 | 52 231 | 52 232 | 53 233 | 53 234 | 53 235 | 54 236 | 54 237 | 55 238 | 55 239 |
| 56 240 | 56 241 | 57 242 | 57 243 | 58 244 | 58 245 | 59 246 | 59 247 | 60 248 | 60 249 |
| 61 250 | 61 251 | 62 252 | 62 253 | 63 254 | 63 255 | 64 256 | 64 257 | 65 258 | 65 259 |

Für gamma=2 & j=0 bis 1023: xinhj=yrehj, yinhj=xrehj=j, ähnlich für dezimale Werte xindj=yredj, yindj=xredj=xrehj/1023  
ggt11-7n

TUB-Registrierung: 20240701-ggt1/ggt110np.pdf / .ps  
Anwendung für Beurteilung und Messung von Display- oder Druck-Ausgabe  
TUB-Material: Code=rh4ta