

Interpretation  $rgb \rightarrow rgb^*$  and CIELAB data of a 48 step elementary hue circle  
for a sRGB standard display with the luminance reflection  $L_r=5\%$  compared to the white reference (100%)  
48 step elementary hue circle with hues:  $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$ , and  $C^* M^* = 217.0, 328.6$   
comparison with six device hues  $OYLCVM: h_{ab,a} = 31.9, 103.7, 137.6, 196.6, 302.8, 327.9$   
9 step equidistant grey scale:  $L^* = 26.8, 35.4, 44.0, 52.6, 61.1, 69.7, 78.3, 86.8, 95.4$

| $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ | $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ |
|---------|-----------|-----------|---------|---------------------------|---------|-----------|-----------|---------|---------------------------|
| r00j=R  | 30.0      | 1.0       | 0.0     | 0.204                     | 0.636   | 0.364     | 1.000     | 0.000   | 0.000                     |
| r12j    | 36.6      | 1.0       | 0.135   | 0.0                       | 0.921   | 0.079     | 1.000     | 0.125   | 0.000                     |
| r25j    | 43.9      | 1.0       | 0.33    | 0.0                       | 0.357   | 0.643     | 1.000     | 0.250   | 0.000                     |
| r37j    | 51.8      | 1.0       | 0.443   | 0.0                       | 0.456   | 0.544     | 1.000     | 0.375   | 0.000                     |
| r50j    | 60.0      | 1.0       | 0.533   | 0.0                       | 0.733   | 0.267     | 1.000     | 0.500   | 0.000                     |
| r62j    | 68.2      | 1.0       | 0.613   | 0.0                       | 0.099   | 0.901     | 1.000     | 0.625   | 0.000                     |
| r75j    | 76.1      | 1.0       | 0.69    | 0.0                       | 0.483   | 0.517     | 1.000     | 0.750   | 0.000                     |
| r87j    | 83.4      | 1.0       | 0.768   | 0.0                       | 0.854   | 0.146     | 1.000     | 0.875   | 0.000                     |
| j00g=J  | 90.0      | 1.0       | 0.855   | 0.0                       | 0.158   | 0.842     | 1.000     | 1.000   | 0.000                     |
| j12g    | 96.6      | 1.0       | 0.965   | 0.0                       | 0.277   | 0.723     | 0.875     | 1.000   | 0.000                     |
| j25g    | 103.9     | 0.906     | 1.0     | 0.0                       | 0.25    | 0.75      | 0.750     | 1.000   | 0.000                     |
| j37g    | 111.8     | 0.761     | 1.0     | 0.0                       | 0.085   | 0.915     | 0.625     | 1.000   | 0.000                     |
| j50g    | 120.0     | 0.573     | 1.0     | 0.0                       | 0.586   | 0.414     | 0.500     | 1.000   | 0.000                     |
| j62g    | 128.2     | 0.236     | 1.0     | 0.0                       | 0.888   | 0.112     | 0.375     | 1.000   | 0.000                     |
| j75g    | 136.1     | 0.0       | 1.0     | 0.395                     | 0.836   | 0.164     | 0.250     | 1.000   | 0.000                     |
| j87g    | 143.4     | 0.0       | 1.0     | 0.581                     | 0.352   | 0.648     | 0.125     | 1.000   | 0.000                     |
| g00c=G  | 150.0     | 0.0       | 1.0     | 0.707                     | 0.347   | 0.653     | 0.000     | 1.000   | 0.000                     |
| g12c    | 156.6     | 0.0       | 1.0     | 0.783                     | 0.736   | 0.264     | 0.000     | 1.000   | 0.125                     |
| g25c    | 163.9     | 0.0       | 1.0     | 0.847                     | 0.221   | 0.779     | 0.000     | 1.000   | 0.250                     |
| g37c    | 171.8     | 0.0       | 1.0     | 0.903                     | 0.779   | 0.221     | 0.000     | 1.000   | 0.375                     |
| g50c    | 180.0     | 0.0       | 1.0     | 0.951                     | 0.394   | 0.606     | 0.000     | 1.000   | 0.500                     |
| g62c    | 188.2     | 0.0       | 1.0     | 0.999                     | 0.098   | 0.932     | 0.000     | 1.000   | 0.625                     |
| g75c    | 196.1     | 0.0       | 0.965   | 1.0                       | 0.719   | 0.281     | 0.000     | 1.000   | 0.750                     |
| g87c    | 203.4     | 0.0       | 0.929   | 1.0                       | 0.432   | 0.568     | 0.000     | 1.000   | 0.875                     |

KE910-3N, 2

Interpretation  $rgb \rightarrow rgb^*$  and CIELAB data of a 48 step elementary hue circle  
for a sRGB standard display with the luminance reflection  $L_r=10\%$  compared to the white reference (100%)  
48 step elementary hue circle with hues:  $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$ , and  $C^* M^* = 217.0, 328.6$   
comparison with six device hues  $OYLCVM: h_{ab,a} = 28.5, 104.4, 138.8, 196.8, 300.4, 327.6$   
9 step equidistant grey scale:  $L^* = 38.0, 45.2, 52.3, 59.5, 66.7, 73.9, 81.1, 88.2, 95.4$

| $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ | $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ |
|---------|-----------|-----------|---------|---------------------------|---------|-----------|-----------|---------|---------------------------|
| r00j=R  | 30.0      | 1.0       | 0.0     | 0.147                     | 0.179   | 0.821     | 1.000     | 0.000   | 0.000                     |
| r12j    | 36.6      | 1.0       | 0.243   | 0.0                       | 0.059   | 0.941     | 1.000     | 0.125   | 0.000                     |
| r25j    | 43.9      | 1.0       | 0.383   | 0.0                       | 0.934   | 0.066     | 1.000     | 0.250   | 0.000                     |
| r37j    | 51.8      | 1.0       | 0.477   | 0.0                       | 0.186   | 0.814     | 1.000     | 0.375   | 0.000                     |
| r50j    | 60.0      | 1.0       | 0.555   | 0.0                       | 0.557   | 0.443     | 1.000     | 0.500   | 0.000                     |
| r62j    | 68.2      | 1.0       | 0.629   | 0.0                       | 0.969   | 0.031     | 1.000     | 0.625   | 0.000                     |
| r75j    | 76.1      | 1.0       | 0.699   | 0.0                       | 0.406   | 0.594     | 1.000     | 0.750   | 0.000                     |
| r87j    | 83.4      | 1.0       | 0.773   | 0.0                       | 0.818   | 0.182     | 1.000     | 0.875   | 0.000                     |
| j00g=J  | 90.0      | 1.0       | 0.854   | 0.0                       | 0.169   | 0.831     | 1.000     | 1.000   | 0.000                     |
| j12g    | 96.6      | 1.0       | 0.958   | 0.0                       | 0.336   | 0.664     | 0.875     | 1.000   | 0.000                     |
| j25g    | 103.9     | 0.92      | 1.0     | 0.0                       | 0.36    | 0.64      | 0.750     | 1.000   | 0.000                     |
| j37g    | 111.8     | 0.781     | 1.0     | 0.0                       | 0.244   | 0.756     | 0.625     | 1.000   | 0.000                     |
| j50g    | 120.0     | 0.607     | 1.0     | 0.0                       | 0.856   | 0.144     | 0.500     | 1.000   | 0.000                     |
| j62g    | 128.2     | 0.309     | 1.0     | 0.0                       | 0.475   | 0.525     | 0.375     | 1.000   | 0.000                     |
| j75g    | 136.1     | 0.0       | 1.0     | 0.382                     | 0.943   | 0.057     | 0.250     | 1.000   | 0.000                     |
| j87g    | 143.4     | 0.0       | 1.0     | 0.579                     | 0.37    | 0.63      | 0.125     | 1.000   | 0.000                     |
| g00c=G  | 150.0     | 0.0       | 1.0     | 0.707                     | 0.344   | 0.656     | 0.000     | 1.000   | 0.000                     |
| g12c    | 156.6     | 0.0       | 1.0     | 0.784                     | 0.732   | 0.268     | 0.000     | 1.000   | 0.125                     |
| g25c    | 163.9     | 0.0       | 1.0     | 0.848                     | 0.219   | 0.781     | 0.000     | 1.000   | 0.250                     |
| g37c    | 171.8     | 0.0       | 1.0     | 0.902                     | 0.781   | 0.219     | 0.000     | 1.000   | 0.375                     |
| g50c    | 180.0     | 0.0       | 1.0     | 0.95                      | 0.4     | 0.6       | 0.000     | 1.000   | 0.500                     |
| g62c    | 188.2     | 0.0       | 1.0     | 0.998                     | 0.019   | 0.981     | 0.000     | 1.000   | 0.625                     |
| g75c    | 196.1     | 0.0       | 0.966   | 1.0                       | 0.731   | 0.269     | 0.000     | 1.000   | 0.750                     |
| g87c    | 203.4     | 0.0       | 0.931   | 1.0                       | 0.448   | 0.552     | 0.000     | 1.000   | 0.875                     |

KE910-7N, 2

Interpretation  $rgb \rightarrow rgb^*$  and CIELAB data of a 48 step elementary hue circle  
for a sRGB standard display with the luminance reflection  $L_r=20\%$  compared to the white reference (100%)  
48 step elementary hue circle with hues:  $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$ , and  $C^* M^* = 217.0, 328.6$   
comparison with six device hues  $OYLCVM: h_{ab,a} = 25.0, 105.5, 140.5, 197.2, 297.3, 327.0$   
9 step equidistant grey scale:  $L^* = 52.0, 57.4, 62.9, 68.3, 73.7, 79.1, 84.6, 90.0, 95.4$

| $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ | $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ |
|---------|-----------|-----------|---------|---------------------------|---------|-----------|-----------|---------|---------------------------|
| r00j=R  | 30.0      | 1.0       | 0.044   | 0.0                       | 0.645   | 0.355     | 1.000     | 0.000   | 0.000                     |
| r12j    | 36.6      | 1.0       | 0.311   | 0.0                       | 0.515   | 0.485     | 1.000     | 0.125   | 0.000                     |
| r25j    | 43.9      | 1.0       | 0.425   | 0.0                       | 0.599   | 0.401     | 1.000     | 0.250   | 0.000                     |
| r37j    | 51.8      | 1.0       | 0.512   | 0.0                       | 0.902   | 0.098     | 1.000     | 0.375   | 0.000                     |
| r50j    | 60.0      | 1.0       | 0.581   | 0.0                       | 0.355   | 0.645     | 1.000     | 0.500   | 0.000                     |
| r62j    | 68.2      | 1.0       | 0.647   | 0.0                       | 0.821   | 0.179     | 1.000     | 0.625   | 0.000                     |
| r75j    | 76.1      | 1.0       | 0.711   | 0.0                       | 0.312   | 0.688     | 1.000     | 0.750   | 0.000                     |
| r87j    | 83.4      | 1.0       | 0.779   | 0.0                       | 0.772   | 0.228     | 1.000     | 0.875   | 0.000                     |
| j00g=J  | 90.0      | 1.0       | 0.852   | 0.0                       | 0.183   | 0.817     | 1.000     | 1.000   | 0.000                     |
| j12g    | 96.6      | 1.0       | 0.947   | 0.0                       | 0.421   | 0.579     | 0.875     | 1.000   | 0.000                     |
| j25g    | 103.9     | 0.94      | 1.0     | 0.0                       | 0.524   | 0.476     | 0.750     | 1.000   | 0.000                     |
| j37g    | 111.8     | 0.81      | 1.0     | 0.0                       | 0.479   | 0.521     | 0.625     | 1.000   | 0.000                     |
| j50g    | 120.0     | 0.65      | 1.0     | 0.0                       | 0.198   | 0.802     | 0.500     | 1.000   | 0.000                     |
| j62g    | 128.2     | 0.397     | 1.0     | 0.0                       | 0.18    | 0.82      | 0.375     | 1.000   | 0.000                     |
| j75g    | 136.1     | 0.0       | 1.0     | 0.349                     | 0.21    | 0.79      | 0.250     | 1.000   | 0.000                     |
| j87g    | 143.4     | 0.0       | 1.0     | 0.575                     | 0.402   | 0.598     | 0.125     | 1.000   | 0.000                     |
| g00c=G  | 150.0     | 0.0       | 1.0     | 0.708                     | 0.338   | 0.662     | 0.000     | 1.000   | 0.000                     |
| g12c    | 156.6     | 0.0       | 1.0     | 0.784                     | 0.725   | 0.275     | 0.000     | 1.000   | 0.125                     |
| g25c    | 163.9     | 0.0       | 1.0     | 0.848                     | 0.216   | 0.784     | 0.000     | 1.000   | 0.250                     |
| g37c    | 171.8     | 0.0       | 1.0     | 0.902                     | 0.785   | 0.215     | 0.000     | 1.000   | 0.375                     |
| g50c    | 180.0     | 0.0       | 1.0     | 0.948                     | 0.413   | 0.587     | 0.000     | 1.000   | 0.500                     |
| g62c    | 188.2     | 0.0       | 1.0     | 0.995                     | 0.04    | 0.96      | 0.000     | 1.000   | 0.625                     |
| g75c    | 196.1     | 0.0       | 0.969   | 1.0                       | 0.754   | 0.246     | 0.000     | 1.000   | 0.750                     |
| g87c    | 203.4     | 0.0       | 0.935   | 1.0                       | 0.478   | 0.522     | 0.000     | 1.000   | 0.875                     |

KE911-3N, 2

Interpretation  $rgb \rightarrow rgb^*$  and CIELAB data of a 48 step elementary hue circle  
for a sRGB standard display with the luminance reflection  $L_r=40\%$  compared to the white reference (100%)  
48 step elementary hue circle with hues:  $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$ , and  $C^* M^* = 217.0, 328.6$   
comparison with six device hues  $OYLCVM: h_{ab,a} = 21.9, 107.3, 142.4, 197.9, 293.8, 326.1$   
9 step equidistant grey scale:  $L^* = 69.7, 72.9, 76.1, 79.3, 82.6, 85.8, 89.0, 92.2, 95.4$

| $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ | $u^*Ma$ | $h_{rgb}$ | $olv^*Ma$ | $A1/A2$ | $rgb \rightarrow rgb^*Ma$ |
|---------|-----------|-----------|---------|---------------------------|---------|-----------|-----------|---------|---------------------------|
| r00j=R  | 30.0      | 1.0       | 0.202   | 0.0                       | 0.38    | 0.62      | 1.000     | 0.000   | 0.000                     |
| r12j    | 36.6      | 1.0       | 0.376   | 0.0                       | 0.994   | 0.006     | 1.000     | 0.125   | 0.000                     |
| r25j    | 43.9      | 1.0       | 0.468   | 0.0                       | 0.259   | 0.741     | 1.000     | 0.250   | 0.000                     |
| r37j    | 51.8      | 1.0       | 0.542   | 0.0                       | 0.664   | 0.336     | 1.000     | 0.375   | 0.000                     |
| r50j    | 60.0      | 1.0       | 0.607   | 0.0                       | 0.145   | 0.855     | 1.000     | 0.500   | 0.000                     |
| r62j    | 68.2      | 1.0       | 0.666   | 0.0                       | 0.67    | 0.33      | 1.000     | 0.625   | 0.000                     |
| r75j    | 76.1      | 1.0       | 0.723   | 0.0                       | 0.213   | 0.787     | 1.000     | 0.750   | 0.000                     |
| r87j    | 83.4      | 1.0       | 0.785   | 0.0                       | 0.722   | 0.278     | 1.000     | 0.875   | 0.000                     |
| j00g=J  | 90.0      | 1.0       | 0.85    | 0.0                       | 0.201   | 0.799     | 1.000     | 1.000   | 0.000                     |
| j12g    | 96.6      | 1.0       | 0.934   | 0.0                       | 0.531   | 0.469     | 0.875     | 1.000   | 0.000                     |
| j25g    | 103.9     | 0.967     | 1.0     | 0.0                       | 0.74    | 0.26      | 0.750     | 1.000   | 0.000                     |
| j37g    | 111.8     | 0.849     | 1.0     | 0.0                       | 0.79    | 0.21      | 0.625     | 1.000   | 0.000                     |
| j50g    | 120.0     | 0.701     | 1.0     | 0.0                       | 0.606   | 0.394     | 0.500     | 1.000   | 0.000                     |
| j62g    | 128.2     | 0.484     | 1.0     | 0.0                       | 0.872   | 0.128     | 0.375     | 1.000   | 0.000                     |
| j75g    | 136.1     | 0.0       | 1.0     | 0.285                     | 0.719   | 0.281     | 0.250     | 1.000   | 0.000                     |
| j87g    | 143.4     | 0.0       | 1.0     | 0.568                     | 0.453   | 0.547     | 0.125     | 1.000   | 0.000                     |
| g00c=G  | 150.0     | 0.0       | 1.0     | 0.709                     | 0.328   | 0.672     | 0.000     | 1.000   | 0.000                     |
| g12c    | 156.6     | 0.0       | 1.0     | 0.786                     | 0.714   | 0.286     | 0.000     | 1.000   | 0.125                     |
| g25c    | 163.9     | 0.0       | 1.0     | 0.849                     | 0.211   | 0.789     | 0.000     | 1.000   | 0.250                     |
| g37c    | 171.8     | 0.0       | 1.0     | 0.901                     | 0.792   | 0.208     | 0.000     | 1.000   | 0.375                     |
| g50c    | 180.0     | 0.0       | 1.0     | 0.946                     | 0.434   | 0.566     | 0.000     | 1.000   | 0.500                     |
| g62c    | 188.2     | 0.0       | 1.0     | 0.99                      | 0.076   | 0.924     | 0.000     | 1.000   | 0.625                     |
| g75c    | 196.1     | 0.0       | 0.974   | 1.0                       | 0.791   | 0.209     | 0.000     | 1.000   | 0.750                     |
| g87c    | 203.4     | 0.0       | 0.941   | 1.0                       | 0.526   | 0.474     | 0.000     | 1.000   | 0.875                     |

KE911-7N, 2

TUB-test chart KE91; 48 step sRGB elementary hue circle  
Interpretation  $rgb \rightarrow rgb^*$  and  $olv^*$  data of colours Ma

input:  $rgb \rightarrow rgb^* \text{ setrgbcolor}$   
output: no change compared to input