

Interpretation *rgb* -> *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:  $L^* = 69.7, 72.9, 76.1, 79.3, 82.6, 85.8, 89.0, 92.2, 95.4$

| <i>u*</i> <sub>Ma</sub> | <i>h</i> <sub>rgb</sub> | <i>L*</i> <sub>Ma</sub> | <i>a*</i> <sub>Ma</sub> | <i>b*</i> <sub>Ma</sub> | <i>C*</i> <sub>ab, Ma</sub> | <i>h</i> <sub>Ma</sub> | <i>rgb</i> -> <i>rgb*</i> <sub>Ma</sub> |       |       | <i>u*</i> <sub>Ma</sub> | <i>h</i> <sub>rgb</sub> | <i>L*</i> <sub>Ma</sub> | <i>a*</i> <sub>Ma</sub> | <i>b*</i> <sub>Ma</sub> | <i>C*</i> <sub>ab, Ma</sub> | <i>h</i> <sub>Ma</sub> | <i>rgb</i> -> <i>rgb*</i> <sub>Ma</sub> |       |       |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|------------------------|-----------------------------------------|-------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|------------------------|-----------------------------------------|-------|-------|
| r00j                    | 30.0                    | 77.2                    | 24.5                    | 11.7                    | 27.1                        | 25.5                   | 1.000                                   | 0.000 | 0.000 | g50b                    | 210.0                   | 87.6                    | -15.8                   | -11.9                   | 19.9                        | 217.0                  | 0.000                                   | 1.000 | 1.000 |
| r12j                    | 36.6                    | 78.8                    | 20.8                    | 13.9                    | 25.1                        | 33.8                   | 1.000                                   | 0.125 | 0.000 | g56b                    | 216.6                   | 86.6                    | -14.0                   | -13.4                   | 19.5                        | 223.8                  | 0.000                                   | 0.875 | 1.000 |
| r25j                    | 43.9                    | 80.3                    | 17.6                    | 16.0                    | 23.8                        | 42.2                   | 1.000                                   | 0.250 | 0.000 | g62b                    | 223.9                   | 85.7                    | -12.1                   | -14.8                   | 19.3                        | 230.7                  | 0.000                                   | 0.750 | 1.000 |
| r37j                    | 51.8                    | 81.6                    | 14.7                    | 17.8                    | 23.1                        | 50.5                   | 1.000                                   | 0.375 | 0.000 | g68b                    | 231.8                   | 84.8                    | -10.3                   | -16.2                   | 19.4                        | 237.5                  | 0.000                                   | 0.625 | 1.000 |
| r50j                    | 60.0                    | 82.9                    | 11.8                    | 19.6                    | 22.9                        | 58.9                   | 1.000                                   | 0.500 | 0.000 | g75b                    | 240.0                   | 83.8                    | -8.4                    | -17.7                   | 19.7                        | 244.4                  | 0.000                                   | 0.500 | 1.000 |
| r62j                    | 68.2                    | 84.2                    | 9.0                     | 21.5                    | 23.3                        | 67.2                   | 1.000                                   | 0.625 | 0.000 | g81b                    | 248.2                   | 82.8                    | -6.5                    | -19.2                   | 20.4                        | 251.2                  | 0.000                                   | 0.375 | 1.000 |
| r74j                    | 76.1                    | 85.6                    | 6.0                     | 23.4                    | 24.2                        | 75.6                   | 1.000                                   | 0.750 | 0.000 | g87b                    | 256.1                   | 81.7                    | -4.3                    | -20.8                   | 21.4                        | 258.0                  | 0.000                                   | 0.250 | 1.000 |
| r87j                    | 83.4                    | 87.2                    | 2.7                     | 25.6                    | 25.7                        | 84.0                   | 1.000                                   | 0.875 | 0.000 | g93b                    | 263.4                   | 80.5                    | -1.9                    | -22.6                   | 22.8                        | 264.9                  | 0.000                                   | 0.125 | 1.000 |
| j00g                    | 90.0                    | 89.1                    | -1.0                    | 28.1                    | 28.1                        | 92.3                   | 1.000                                   | 1.000 | 0.000 | b00r                    | 270.0                   | 79.1                    | 0.8                     | -24.7                   | 24.9                        | 271.7                  | 0.000                                   | 0.000 | 1.000 |
| j12g                    | 96.6                    | 91.6                    | -6.1                    | 31.5                    | 32.1                        | 101.1                  | 0.875                                   | 1.000 | 0.000 | b06r                    | 276.6                   | 77.4                    | 4.3                     | -27.3                   | 27.7                        | 278.8                  | 0.125                                   | 0.000 | 1.000 |
| j25g                    | 103.9                   | 93.6                    | -12.2                   | 34.2                    | 36.3                        | 109.8                  | 0.750                                   | 1.000 | 0.000 | b12r                    | 283.9                   | 75.3                    | 8.8                     | -30.6                   | 31.9                        | 286.0                  | 0.250                                   | 0.000 | 1.000 |
| j37g                    | 111.8                   | 92.6                    | -17.6                   | 32.6                    | 37.1                        | 118.5                  | 0.625                                   | 1.000 | 0.000 | b18r                    | 291.8                   | 72.5                    | 14.9                    | -35.0                   | 38.1                        | 293.1                  | 0.375                                   | 0.000 | 1.000 |
| j50g                    | 120.0                   | 91.5                    | -23.4                   | 30.9                    | 38.8                        | 127.3                  | 0.500                                   | 1.000 | 0.000 | b24r                    | 300.0                   | 73.2                    | 19.7                    | -33.8                   | 39.2                        | 300.2                  | 0.500                                   | 0.000 | 1.000 |
| j62g                    | 128.2                   | 90.3                    | -30.0                   | 29.1                    | 41.9                        | 136.0                  | 0.375                                   | 1.000 | 0.000 | b31r                    | 308.2                   | 74.4                    | 24.2                    | -31.8                   | 40.0                        | 307.3                  | 0.625                                   | 0.000 | 1.000 |
| j74g                    | 136.1                   | 89.4                    | -34.7                   | 24.6                    | 42.6                        | 144.7                  | 0.250                                   | 1.000 | 0.000 | b37r                    | 316.1                   | 75.8                    | 29.0                    | -29.5                   | 41.4                        | 314.4                  | 0.750                                   | 0.000 | 1.000 |
| j87g                    | 143.4                   | 89.8                    | -31.5                   | 15.8                    | 35.3                        | 153.5                  | 0.125                                   | 1.000 | 0.000 | b43r                    | 323.4                   | 77.4                    | 34.0                    | -27.0                   | 43.5                        | 321.5                  | 0.875                                   | 0.000 | 1.000 |
| g00b                    | 150.0                   | 90.1                    | -29.0                   | 9.3                     | 30.6                        | 162.2                  | 0.000                                   | 1.000 | 0.000 | b50r                    | 330.0                   | 78.3                    | 36.4                    | -22.2                   | 42.7                        | 328.6                  | 1.000                                   | 0.000 | 1.000 |
| g06b                    | 156.6                   | 90.3                    | -27.3                   | 5.3                     | 27.9                        | 169.1                  | 0.000                                   | 1.000 | 0.125 | b56r                    | 336.6                   | 77.8                    | 34.0                    | -15.3                   | 37.3                        | 335.7                  | 1.000                                   | 0.000 | 0.875 |
| g12b                    | 163.9                   | 90.4                    | -25.9                   | 1.9                     | 26.1                        | 175.9                  | 0.000                                   | 1.000 | 0.250 | b62r                    | 343.9                   | 77.5                    | 32.2                    | -9.9                    | 33.7                        | 342.8                  | 1.000                                   | 0.000 | 0.750 |
| g18b                    | 171.8                   | 90.6                    | -24.6                   | -1.1                    | 24.7                        | 182.8                  | 0.000                                   | 1.000 | 0.375 | b68r                    | 351.8                   | 77.2                    | 30.8                    | -5.3                    | 31.3                        | 349.9                  | 1.000                                   | 0.000 | 0.625 |
| g25b                    | 180.0                   | 90.8                    | -23.3                   | -3.9                    | 23.7                        | 189.6                  | 0.000                                   | 1.000 | 0.500 | b75r                    | 0.0                     | 77.0                    | 29.6                    | -1.4                    | 29.6                        | 357.0                  | 1.000                                   | 0.000 | 0.500 |
| g31b                    | 188.2                   | 90.9                    | -22.1                   | -6.4                    | 23.2                        | 196.4                  | 0.000                                   | 1.000 | 0.625 | b81r                    | 8.2                     | 76.7                    | 27.7                    | 5.3                     | 28.2                        | 4.2                    | 1.000                                   | 0.000 | 0.375 |
| g37b                    | 196.1                   | 89.9                    | -20.0                   | -8.5                    | 21.9                        | 203.3                  | 0.000                                   | 1.000 | 0.750 | b87r                    | 16.1                    | 76.5                    | 26.9                    | 8.2                     | 28.1                        | 11.3                   | 1.000                                   | 0.000 | 0.250 |
| g43b                    | 203.4                   | 88.7                    | -17.8                   | -10.3                   | 20.7                        | 210.1                  | 0.000                                   | 1.000 | 0.875 | b93r                    | 23.4                    | 76.5                    | 26.4                    | 9.9                     | 28.2                        | 18.4                   | 1.000                                   | 0.000 | 0.125 |