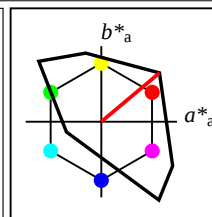


%Gamut  
 $u^*_{rel} = 158$   
%Regularity  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

| TLS00            |             |         |         |              |              |
|------------------|-------------|---------|---------|--------------|--------------|
|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>M</sub>   | 50.5        | 76.91   | 64.55   | 100.41       | 40           |
| Y <sub>M</sub>   | 92.66       | -20.67  | 90.75   | 93.08        | 103          |
| L <sub>M</sub>   | 83.62       | -82.73  | 79.9    | 115.02       | 136          |
| C <sub>M</sub>   | 86.88       | -46.14  | -13.53  | 48.1         | 196          |
| V <sub>M</sub>   | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>M</sub>   | 57.31       | 94.35   | -58.39  | 110.96       | 328          |
| N <sub>M</sub>   | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>M</sub>   | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



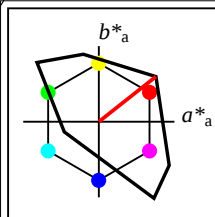
%Gamut  
 $u^*_{rel} = 158$   
%Regularity  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

| TLS00a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>             | 50.5        | 76.91   | 64.55   | 100.41       | 40           |
| Y <sub>Ma</sub>             | 92.66       | -20.67  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>             | 83.62       | -82.73  | 79.9    | 115.02       | 136          |
| C <sub>Ma</sub>             | 86.88       | -46.14  | -13.53  | 48.1         | 196          |
| V <sub>Ma</sub>             | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>             | 57.31       | 94.35   | -58.39  | 110.96       | 328          |
| N <sub>Ma</sub>             | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>            | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>            | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>            | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>            | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

input:  $olv^*$  setrgbcolor  
output:  $olv^*$  (TRI9) setrgbcolor

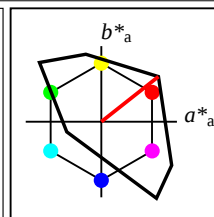
Data of 3x3x3=27 colors in colorimetric system TLS00; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| n  | no. | System | $\rho^*_3$ | $l^*_3$ | $v^*_3$ | $e^*$ | $t^*$ | $c^*$ | $h^*$ | $n^*$ | $w^*$ | $LCH^*_{CIE}$ |       | $a^*b^*_{CIE}$ |       | $XYZ_{CIE}$ |      | $xy_{CIE}$ |       | $XYZ_{RGB}$ |       | $RGB'_{sRGB}$ |       |       | $RGB'_{AdobeRGB}$ |        |        |        |                                                                                     |        |                                                                                       |
|----|-----|--------|------------|---------|---------|-------|-------|-------|-------|-------|-------|---------------|-------|----------------|-------|-------------|------|------------|-------|-------------|-------|---------------|-------|-------|-------------------|--------|--------|--------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 0  | 0   | TLS00  | 0.0        | 0.0     | 0.0     | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0           | 0.0   | 0.0            | 0.0   | 0.0         | 0.0  | 0.328      | 0.328 | 0.0         | 0.0   | 0.0           | 0.0   | 0.0   | 0.0               | 0.006  | 0.006  | 0.006  |  |        |                                                                                       |
| 1  | 0   | TLS00  | 0.0        | 0.0     | 0.5     | 0.781 | 0.25  | 0.5   | 0.851 | 0.5   | 0.0   | 15.2          | 64.3  | 306.3          | 38.0  | -51.7       | 3.9  | 1.9        | 16.0  | 0.178       | 0.178 | 0.044         | 0.022 | 0.181 | 0.147             | 0.07   | 0.472  | 0.149  | 0.098                                                                               | 0.46   |    |
| 2  | 0   | TLS00  | 0.0        | 0.0     | 1.0     | 0.781 | 0.5   | 1.0   | 0.851 | 0.0   | 0.0   | 30.4          | 128.5 | 306.3          | 76.1  | -103.5      | 16.0 | 6.4        | 84.2  | 0.15        | 0.15  | 0.18          | 0.072 | 0.951 | 0.0               | 0.001  | 1.0    | -0.008 | 0.005                                                                               | 0.981  |    |
| 3  | 0   | TLS00  | 0.0        | 0.5     | 0.0     | 0.308 | 0.25  | 0.5   | 0.378 | 0.5   | 0.0   | 41.8          | 57.5  | 136.0          | -41.3 | 39.9        | 6.8  | 12.4       | 2.9   | 0.309       | 0.309 | 0.077         | 0.14  | 0.033 | 0.145             | 0.472  | 0.102  | 0.293  | 0.469                                                                               | 0.16   |    |
| 4  | 0   | TLS00  | 0.0        | 0.5     | 0.5     | 0.475 | 0.25  | 0.5   | 0.545 | 0.5   | 0.0   | 43.4          | 24.0  | 196.4          | -23.0 | -6.7        | 9.6  | 13.5       | 17.8  | 0.236       | 0.236 | 0.109         | 0.152 | 0.2   | 0.148             | 0.471  | 0.469  | 0.293  | 0.467                                                                               | 0.466  |    |
| 5  | 0   | TLS00  | 0.0        | 0.5     | 1.0     | 0.628 | 0.5   | 1.0   | 0.698 | 0.0   | 0.0   | 58.6          | 88.3  | 251.3          | -28.2 | -83.6       | 19.2 | 26.6       | 130.3 | 0.109       | 0.109 | 0.217         | 0.301 | 1.471 | -6.368            | 0.676  | 1.196  | -0.516 | 0.67                                                                                | 1.188  |    |
| 6  | 0   | TLS00  | 0.0        | 1.0     | 0.0     | 0.308 | 0.5   | 1.0   | 0.378 | 0.0   | 0.0   | 83.6          | 115.0 | 136.0          | -82.6 | 79.9        | 31.7 | 63.3       | 10.6  | 0.3         | 0.3   | 0.358         | 0.715 | 0.119 | 0.004             | 1.0    | 0.0    | 0.565  | 1.0                                                                                 | 0.234  |    |
| 7  | 0   | TLS00  | 0.0        | 1.0     | 0.5     | 0.392 | 0.5   | 1.0   | 0.462 | 0.0   | 0.0   | 85.2          | 81.6  | 166.2          | -79.1 | 19.5        | 34.7 | 66.5       | 50.8  | 0.228       | 0.228 | 0.391         | 0.751 | 0.573 | -2.216            | 1.023  | 0.718  | 0.455  | 1.024                                                                               | 0.728  |    |
| 8  | 0   | TLS00  | 0.0        | 1.0     | 1.0     | 0.475 | 0.5   | 1.0   | 0.545 | 0.0   | 0.0   | 86.9          | 48.1  | 196.4          | -46.1 | -13.4       | 47.7 | 69.8       | 94.7  | 0.225       | 0.225 | 0.538         | 0.787 | 1.069 | 0.009             | 1.0    | 1.0    | 0.565  | 1.0                                                                                 | 1.0    |    |
| 9  | 0   | TLS00  | 0.5        | 0.0     | 0.0     | 0.042 | 0.25  | 0.5   | 0.111 | 0.5   | 0.0   | 25.3          | 50.2  | 40.0           | 38.5  | 32.3        | 7.7  | 4.5        | 0.8   | 0.593       | 0.593 | 0.087         | 0.051 | 0.009 | 0.483             | 0.109  | 0.049  | 0.416  | 0.131                                                                               | 0.083  |    |
| 10 | 0   | TLS00  | 0.5        | 0.0     | 0.5     | 0.842 | 0.25  | 0.5   | 0.912 | 0.5   | 0.0   | 28.7          | 55.5  | 328.2          | 47.2  | -29.1       | 10.5 | 5.7        | 16.3  | 0.322       | 0.322 | 0.118         | 0.064 | 0.184 | 0.476             | 0.123  | 0.471  | 0.411  | 0.143                                                                               | 0.459  |    |
| 11 | 0   | TLS00  | 0.5        | 0.0     | 1.0     | 0.811 | 0.5   | 1.0   | 0.881 | 0.0   | 0.0   | 43.8          | 119.7 | 317.3          | 88.0  | -81.2       | 31.5 | 13.7       | 85.4  | 0.241       | 0.241 | 0.355         | 0.155 | 0.964 | 0.689             | -0.171 | 1.003  | 0.583  | -0.14                                                                               | 0.984  |    |
| 12 | 0   | TLS00  | 0.5        | 0.5     | 0.0     | 0.217 | 0.25  | 0.5   | 0.286 | 0.5   | 0.0   | 46.3          | 46.5  | 102.8          | -10.2 | 45.4        | 13.1 | 15.5       | 3.3   | 0.411       | 0.411 | 0.148         | 0.175 | 0.037 | 0.475             | 0.469  | 0.109  | 0.47   | 0.466                                                                               | 0.163  |    |
| 13 | 0   | TLS00  | 0.5        | 0.5     | 0.5     | 0.0   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   | 47.7          | 0.0   | 0.0            | 0.0   | 0.0         | 15.7 | 16.6       | 18.0  | 0.313       | 0.313 | 0.178         | 0.187 | 0.204 | 0.47              | 0.47   | 0.47   | 0.467  | 0.467                                                                               | 0.467  |    |
| 14 | 0   | TLS00  | 0.5        | 0.5     | 1.0     | 0.781 | 0.75  | 0.5   | 0.851 | 0.0   | 0.5   | 62.9          | 64.3  | 306.3          | 38.0  | -51.7       | 41.1 | 31.5       | 90.2  | 0.253       | 0.253 | 0.464         | 0.355 | 1.018 | 0.701             | 0.546  | 1.013  | 0.656  | 0.541                                                                               | 0.999  |    |
| 15 | 0   | TLS00  | 0.5        | 1.0     | 0.0     | 0.261 | 0.5   | 1.0   | 0.332 | 0.0   | 0.0   | 88.1          | 104.0 | 119.4          | -51.0 | 90.6        | 47.9 | 72.4       | 9.6   | 0.369       | 0.369 | 0.54          | 0.817 | 0.108 | 0.695             | 1.006  | -0.288 | 0.795  | 1.006                                                                               | 0.17   |    |
| 16 | 0   | TLS00  | 0.5        | 1.0     | 0.5     | 0.308 | 0.75  | 0.5   | 0.378 | 0.0   | 0.5   | 89.5          | 57.5  | 136.0          | -41.3 | 39.9        | 53.7 | 75.3       | 39.0  | 0.32        | 0.32  | 0.607         | 0.849 | 0.44  | 0.695             | 1.011  | 0.606  | 0.797  | 1.011                                                                               | 0.624  |    |
| 17 | 0   | TLS00  | 0.5        | 1.0     | 1.0     | 0.475 | 0.75  | 0.5   | 0.545 | 0.0   | 0.5   | 91.1          | 24.0  | 196.4          | -23.0 | -6.7        | 64.2 | 78.8       | 95.6  | 0.269       | 0.269 | 0.725         | 0.889 | 1.079 | 0.697             | 1.005  | 1.0    | 0.796  | 1.005                                                                               | 1.0    |    |
| 18 | 0   | TLS00  | 1.0        | 0.0     | 0.0     | 0.042 | 0.5   | 1.0   | 0.111 | 0.0   | 0.0   | 50.5          | 100.4 | 40.0           | 76.9  | 64.6        | 36.5 | 18.8       | 1.7   | 0.64        | 0.64  | 0.412         | 0.213 | 0.019 | 1.0               | 0.003  | 0.0    | 0.859  | 0.009                                                                               | -0.003 |    |
| 19 | 0   | TLS00  | 1.0        | 0.0     | 0.5     | 0.942 | 0.5   | 1.0   | 0.011 | 0.0   | 0.0   | 53.9          | 105.7 | 4.1            | 105.4 | 7.6         | 51.2 | 21.9       | 19.6  | 0.552       | 0.552 | 0.577         | 0.247 | 0.221 | 1.152             | -1.12  | 0.502  | 0.983  | -0.329                                                                              | 0.484  |    |
| 20 | 0   | TLS00  | 1.0        | 0.0     | 1.0     | 0.842 | 0.5   | 1.0   | 0.912 | 0.0   | 0.0   | 57.3          | 111.0 | 328.2          | 94.4  | -58.3       | 52.5 | 25.2       | 85.9  | 0.321       | 0.321 | 0.593         | 0.285 | 0.97  | 1.0               | 0.004  | 1.0    | 0.859  | 0.003                                                                               | 0.981  |    |
| 21 | 0   | TLS00  | 1.0        | 0.5     | 0.0     | 0.128 | 0.5   | 1.0   | 0.198 | 0.0   | 0.0   | 71.6          | 96.7  | 71.4           | 30.8  | 91.7        | 51.8 | 43.0       | 2.8   | 0.53        | 0.53  | 0.584         | 0.486 | 0.032 | 1.055             | 0.623  | -0.421 | 0.957  | 0.617                                                                               | -0.156 |   |
| 22 | 0   | TLS00  | 1.0        | 0.5     | 0.5     | 0.042 | 0.75  | 0.5   | 0.111 | 0.0   | 0.5   | 73.0          | 50.2  | 40.0           | 38.5  | 32.3        | 57.1 | 45.1       | 24.2  | 0.452       | 0.452 | 0.644         | 0.509 | 0.273 | 1.071             | 0.62   | 0.507  | 0.969  | 0.614                                                                               | 0.508  |  |
| 23 | 0   | TLS00  | 1.0        | 0.5     | 1.0     | 0.842 | 0.75  | 0.5   | 0.912 | 0.0   | 0.5   | 76.4          | 55.5  | 328.2          | 47.2  | -29.1       | 67.1 | 50.5       | 91.1  | 0.322       | 0.322 | 0.758         | 0.57  | 1.028 | 1.029             | 0.648  | 1.006  | 0.939  | 0.642                                                                               | 0.994  |  |
| 24 | 0   | TLS00  | 1.0        | 1.0     | 0.0     | 0.217 | 0.5   | 1.0   | 0.286 | 0.0   | 0.0   | 92.7          | 93.1  | 102.8          | -20.6 | 90.8        | 68.2 | 82.2       | 12.3  | 0.419       | 0.419 | 0.77          | 0.928 | 0.138 | 1.0               | 1.0    | 0.0    | 1.0    | 1.0                                                                                 | 0.234  |  |
| 25 | 0   | TLS00  | 1.0        | 1.0     | 0.5     | 0.217 | 0.75  | 0.5   | 0.286 | 0.0   | 0.5   | 94.0          | 46.5  | 102.8          | -10.2 | 45.4        | 75.9 | 85.4       | 40.9  | 0.376       | 0.376 | 0.857         | 0.963 | 0.462 | 1.029             | 0.998  | 0.618  | 1.021  | 0.998                                                                               | 0.634  |  |
| 26 | 0   | TLS00  | 1.0        | 1.0     | 1.0     | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 95.4          | 0.0   | 0.0            | 0.0   | 0.0         | 84.2 | 88.6       | 96.5  | 0.313       | 0.313 | 0.95          | 1.0   | 1.089 | 1.0               | 1.0    | 1.0    | 1.0    | 1.0                                                                                 | 1.0    |  |



%Gamut  
 $u^*_{rel} = 146$   
%Regularity  
 $g^*_{H,rel} = 21$   
 $g^*_{C,rel} = 38$

| TLS06     |             |         |         |              |              |
|-----------|-------------|---------|---------|--------------|--------------|
|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_M$     | 51.08       | 75.54   | 59.69   | 96.28        | 38           |
| $Y_M$     | 92.68       | -20.5   | 89.24   | 91.57        | 103          |
| $L_M$     | 83.72       | -81.78  | 78.32   | 113.24       | 136          |
| $C_M$     | 86.94       | -45.71  | -13.42  | 47.65        | 196          |
| $V_M$     | 31.77       | 72.91   | -101.29 | 124.81       | 306          |
| $M_M$     | 57.74       | 93.06   | -57.7   | 109.5        | 328          |
| $N_M$     | 5.69        | 0.0     | 0.0     | 0.0          | 0            |
| $W_M$     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

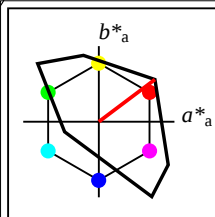


%Gamut  
 $u^*_{rel} = 146$   
%Regularity  
 $g^*_{H,rel} = 21$   
 $g^*_{C,rel} = 38$

| TLS06a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_{Ma}$                    | 51.08       | 75.54   | 59.69   | 96.28        | 38           |
| $Y_{Ma}$                    | 92.68       | -20.5   | 89.24   | 91.57        | 103          |
| $L_{Ma}$                    | 83.72       | -81.78  | 78.32   | 113.24       | 136          |
| $C_{Ma}$                    | 86.94       | -45.71  | -13.42  | 47.65        | 196          |
| $V_{Ma}$                    | 31.77       | 72.91   | -101.29 | 124.81       | 306          |
| $M_{Ma}$                    | 57.74       | 93.06   | -57.7   | 109.5        | 328          |
| $N_{Ma}$                    | 5.69        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$                    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$                   | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$                   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$                   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$                   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

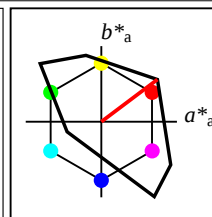
Data of 3x3x3=27 colors in colorimetric system TLS06; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| <i>n</i> | <i>no.</i> | <i>System</i> | <i>o</i> * <sub>3</sub> | <i>l</i> * <sub>3</sub> | <i>v</i> * <sub>3</sub> | <i>e</i> * | <i>t</i> * | <i>c</i> * | <i>h</i> * | <i>n</i> * | <i>w</i> * | <i>LCH</i> * <sub>CIE</sub> |       | <i>a</i> * <i>b</i> * <sub>CIE</sub> |       | <i>XYZ</i> <sub>CIE</sub> |      | <i>xy</i> <sub>CIE</sub> |       | <i>XYZ</i> <sub>RGB</sub> |       | <i>RGB</i> ' <sub>sRGB</sub> |       |       | <i>RGB</i> ' <sub>AdobeRGB</sub> |        |        |        |        |                                                                                     |                                                                                       |
|----------|------------|---------------|-------------------------|-------------------------|-------------------------|------------|------------|------------|------------|------------|------------|-----------------------------|-------|--------------------------------------|-------|---------------------------|------|--------------------------|-------|---------------------------|-------|------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0        | 1          | TLS06         | 0.0                     | 0.0                     | 0.0                     | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 0.0        | 5.7                         | 0.0   | 0.0                                  | 0.0   | 0.6                       | 0.6  | 0.7                      | 0.313 | 0.313                     | 0.007 | 0.007                        | 0.008 | 0.079 | 0.079                            | 0.079  | 0.106  | 0.105  | 0.105  |  |                                                                                       |
| 1        | 1          | TLS06         | 0.0                     | 0.0                     | 0.5                     | 0.781      | 0.25       | 0.5        | 0.849      | 0.5        | 0.0        | 15.9                        | 62.4  | 305.7                                | 36.5  | -50.5                     | 4.0  | 2.1                      | 16.0  | 0.181                     | 0.181 | 0.045                        | 0.023 | 0.181 | 0.151                            | 0.084  | 0.472  | 0.155  | 0.11   | 0.46                                                                                |    |
| 2        | 1          | TLS06         | 0.0                     | 0.0                     | 1.0                     | 0.781      | 0.5        | 1.0        | 0.849      | 0.0        | 0.0        | 31.8                        | 124.8 | 305.7                                | 72.9  | -101.2                    | 16.5 | 7.0                      | 84.3  | 0.153                     | 0.153 | 0.186                        | 0.079 | 0.952 | 0.079                            | 0.08   | 1.0    | 0.106  | 0.106  | 0.981                                                                               |    |
| 3        | 1          | TLS06         | 0.0                     | 0.5                     | 0.0                     | 0.308      | 0.25       | 0.5        | 0.378      | 0.5        | 0.0        | 41.9                        | 56.6  | 136.2                                | -40.8 | 39.2                      | 6.9  | 12.4                     | 3.0   | 0.309                     | 0.309 | 0.078                        | 0.14  | 0.034 | 0.151                            | 0.472  | 0.111  | 0.294  | 0.469  | 0.166                                                                               |    |
| 4        | 1          | TLS06         | 0.0                     | 0.5                     | 0.5                     | 0.475      | 0.25       | 0.5        | 0.545      | 0.5        | 0.0        | 43.5                        | 23.8  | 196.4                                | -22.8 | -6.6                      | 9.7  | 13.5                     | 17.7  | 0.237                     | 0.237 | 0.109                        | 0.152 | 0.2   | 0.153                            | 0.471  | 0.469  | 0.295  | 0.467  | 0.466                                                                               |    |
| 5        | 1          | TLS06         | 0.0                     | 0.5                     | 1.0                     | 0.628      | 0.5        | 1.0        | 0.697      | 0.0        | 0.0        | 59.4                        | 86.2  | 251.1                                | -27.9 | -81.5                     | 19.9 | 27.4                     | 128.8 | 0.113                     | 0.113 | 0.224                        | 0.309 | 1.453 | -6.109                           | 0.682  | 1.189  | -0.499 | 0.676  | 1.181                                                                               |    |
| 6        | 1          | TLS06         | 0.0                     | 1.0                     | 0.0                     | 0.308      | 0.5        | 1.0        | 0.378      | 0.0        | 0.0        | 83.7                        | 113.2 | 136.2                                | -81.7 | 78.3                      | 32.1 | 63.5                     | 11.2  | 0.3                       | 0.3   | 0.362                        | 0.717 | 0.126 | 0.082                            | 1.0    | 0.079  | 0.57   | 1.0    | 0.251                                                                               |    |
| 7        | 1          | TLS06         | 0.0                     | 1.0                     | 0.5                     | 0.392      | 0.5        | 1.0        | 0.462      | 0.0        | 0.0        | 85.3                        | 80.4  | 166.3                                | -78.1 | 19.0                      | 35.1 | 66.7                     | 51.3  | 0.229                     | 0.229 | 0.396                        | 0.752 | 0.579 | -2.103                           | 1.022  | 0.723  | 0.462  | 1.023  | 0.733                                                                               |    |
| 8        | 1          | TLS06         | 0.0                     | 1.0                     | 1.0                     | 0.475      | 0.5        | 1.0        | 0.545      | 0.0        | 0.0        | 86.9                        | 47.7  | 196.4                                | -45.6 | -13.3                     | 47.9 | 69.9                     | 94.7  | 0.226                     | 0.226 | 0.541                        | 0.789 | 1.069 | 0.084                            | 1.0    | 1.0    | 0.57   | 1.0    | 1.0                                                                                 |    |
| 9        | 1          | TLS06         | 0.5                     | 0.0                     | 0.0                     | 0.036      | 0.25       | 0.5        | 0.106      | 0.5        | 0.0        | 25.5                        | 48.1  | 38.3                                 | 37.8  | 29.8                      | 7.8  | 4.6                      | 1.0   | 0.581                     | 0.581 | 0.087                        | 0.052 | 0.011 | 0.483                            | 0.117  | 0.071  | 0.416  | 0.138  | 0.101                                                                               |    |
| 10       | 1          | TLS06         | 0.5                     | 0.0                     | 0.5                     | 0.842      | 0.25       | 0.5        | 0.912      | 0.5        | 0.0        | 28.9                        | 54.8  | 328.2                                | 46.5  | -28.8                     | 10.5 | 5.8                      | 16.3  | 0.322                     | 0.322 | 0.119                        | 0.065 | 0.184 | 0.475                            | 0.13   | 0.471  | 0.411  | 0.149  | 0.459                                                                               |    |
| 11       | 1          | TLS06         | 0.5                     | 0.0                     | 1.0                     | 0.811      | 0.5        | 1.0        | 0.88       | 0.0        | 0.0        | 44.8                        | 117.2 | 317.0                                | 85.6  | -79.8                     | 31.9 | 14.4                     | 85.8  | 0.242                     | 0.242 | 0.36                         | 0.162 | 0.968 | 0.691                            | -0.058 | 1.004  | 0.587  | -0.086 | 0.985                                                                               |    |
| 12       | 1          | TLS06         | 0.5                     | 0.5                     | 0.0                     | 0.217      | 0.25       | 0.5        | 0.286      | 0.5        | 0.0        | 46.3                        | 45.8  | 102.9                                | -10.2 | 44.6                      | 13.1 | 15.5                     | 3.4   | 0.41                      | 0.41  | 0.148                        | 0.175 | 0.038 | 0.475                            | 0.469  | 0.117  | 0.47   | 0.466  | 0.169                                                                               |    |
| 13       | 1          | TLS06         | 0.5                     | 0.5                     | 0.5                     | 0.0        | 0.5        | 0.0        | 0.0        | 0.5        | 0.5        | 50.6                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 17.9 | 18.9                     | 20.6  | 0.313                     | 0.313 | 0.203                        | 0.213 | 0.232 | 0.499                            | 0.499  | 0.499  | 0.495  | 0.495  | 0.495                                                                               |    |
| 14       | 1          | TLS06         | 0.5                     | 0.5                     | 1.0                     | 0.781      | 0.75       | 0.5        | 0.849      | 0.0        | 0.5        | 63.6                        | 62.4  | 305.7                                | 36.5  | -50.5                     | 41.6 | 32.3                     | 90.3  | 0.253                     | 0.253 | 0.469                        | 0.365 | 1.019 | 0.703                            | 0.558  | 1.012  | 0.66   | 0.553  | 0.999                                                                               |    |
| 15       | 1          | TLS06         | 0.5                     | 1.0                     | 0.0                     | 0.264      | 0.5        | 1.0        | 0.332      | 0.0        | 0.0        | 88.2                        | 102.4 | 119.6                                | -50.5 | 89.0                      | 48.1 | 72.5                     | 10.1  | 0.368                     | 0.368 | 0.543                        | 0.818 | 0.114 | 0.699                            | 1.006  | -0.203 | 0.797  | 1.006  | 0.192                                                                               |    |
| 16       | 1          | TLS06         | 0.5                     | 1.0                     | 0.5                     | 0.308      | 0.75       | 0.5        | 0.378      | 0.0        | 0.5        | 89.6                        | 56.6  | 136.2                                | -40.8 | 39.2                      | 54.0 | 75.4                     | 39.7  | 0.319                     | 0.319 | 0.61                         | 0.851 | 0.448 | 0.697                            | 1.01   | 0.613  | 0.798  | 1.011  | 0.63                                                                                |    |
| 17       | 1          | TLS06         | 0.5                     | 1.0                     | 1.0                     | 0.475      | 0.75       | 0.5        | 0.545      | 0.0        | 0.5        | 91.2                        | 23.8  | 196.4                                | -22.8 | -6.6                      | 64.4 | 78.9                     | 95.6  | 0.27                      | 0.27  | 0.727                        | 0.89  | 1.079 | 0.7                              | 1.005  | 1.0    | 0.798  | 1.005  | 1.0                                                                                 |    |
| 18       | 1          | TLS06         | 1.0                     | 0.0                     | 0.0                     | 0.036      | 0.5        | 1.0        | 0.106      | 0.0        | 0.0        | 51.1                        | 96.3  | 38.3                                 | 75.5  | 59.7                      | 36.9 | 19.3                     | 2.4   | 0.629                     | 0.629 | 0.416                        | 0.218 | 0.027 | 1.0                              | 0.081  | 0.079  | 0.86   | 0.106  | 0.105                                                                               |    |
| 19       | 1          | TLS06         | 1.0                     | 0.0                     | 0.5                     | 0.939      | 0.5        | 1.0        | 0.009      | 0.0        | 0.0        | 54.4                        | 102.9 | 3.3                                  | 102.7 | 5.8                       | 51.0 | 22.4                     | 21.0  | 0.54                      | 0.54  | 0.575                        | 0.252 | 0.237 | 1.143                            | -0.954 | 0.518  | 0.977  | -0.305 | 0.501                                                                               |    |
| 20       | 1          | TLS06         | 1.0                     | 0.0                     | 1.0                     | 0.842      | 0.5        | 1.0        | 0.912      | 0.0        | 0.0        | 57.7                        | 109.5 | 328.2                                | 93.1  | -57.6                     | 52.8 | 25.7                     | 86.0  | 0.321                     | 0.321 | 0.595                        | 0.29  | 0.97  | 1.0                              | 0.082  | 1.0    | 0.86   | 0.106  | 0.981                                                                               |   |
| 21       | 1          | TLS06         | 1.0                     | 0.5                     | 0.0                     | 0.128      | 0.5        | 1.0        | 0.196      | 0.0        | 0.0        | 71.9                        | 93.9  | 70.6                                 | 31.2  | 88.6                      | 52.4 | 43.5                     | 3.4   | 0.528                     | 0.528 | 0.591                        | 0.491 | 0.038 | 1.06                             | 0.626  | -0.345 | 0.961  | 0.62   | -0.129                                                                              |  |
| 22       | 1          | TLS06         | 1.0                     | 0.5                     | 0.5                     | 0.036      | 0.75       | 0.5        | 0.106      | 0.0        | 0.5        | 73.2                        | 48.1  | 38.3                                 | 37.8  | 29.8                      | 57.3 | 45.5                     | 26.0  | 0.445                     | 0.445 | 0.647                        | 0.514 | 0.293 | 1.068                            | 0.626  | 0.528  | 0.967  | 0.62   | 0.528                                                                               |  |
| 23       | 1          | TLS06         | 1.0                     | 0.5                     | 1.0                     | 0.842      | 0.75       | 0.5        | 0.912      | 0.0        | 0.5        | 76.6                        | 54.8  | 328.2                                | 46.5  | -28.8                     | 67.3 | 50.8                     | 91.1  | 0.321                     | 0.321 | 0.759                        | 0.574 | 1.029 | 1.028                            | 0.653  | 1.005  | 0.939  | 0.646  | 0.994                                                                               |  |
| 24       | 1          | TLS06         | 1.0                     | 1.0                     | 0.0                     | 0.217      | 0.5        | 1.0        | 0.286      | 0.0        | 0.0        | 92.7                        | 91.6  | 102.9                                | -20.4 | 89.2                      | 68.3 | 82.2                     | 12.9  | 0.418                     | 0.418 | 0.771                        | 0.928 | 0.145 | 1.0                              | 1.0    | 0.079  | 1.0    | 1.0    | 0.251                                                                               |  |
| 25       | 1          | TLS06         | 1.0                     | 1.0                     | 0.5                     | 0.217      | 0.75       | 0.5        | 0.286      | 0.0        | 0.5        | 94.0                        | 45.8  | 102.9                                | -10.2 | 44.6                      | 76.0 | 85.4                     | 41.6  | 0.374                     | 0.374 | 0.858                        | 0.964 | 0.469 | 1.028                            | 0.998  | 0.624  | 1.02   | 0.998  | 0.639                                                                               |  |
| 26       | 1          | TLS06         | 1.0                     | 1.0                     | 1.0                     | 0.0        | 1.0        | 0.0        | 0.0        | 0.0        | 1.0        | 95.4                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 84.2 | 88.6                     | 96.5  | 0.313                     | 0.313 | 0.95                         | 1.0   | 1.089 | 1.0                              | 1.0    | 1.0    | 1.0    | 1.0    | 1.0                                                                                 |  |



**%Gamut**  
**u\*<sub>rel</sub> = 134**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 21**  
**g\*<sub>C,rel</sub> = 39**

| TLS11            | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>M</sub>   | 51.65       | 74.2    | 55.83   | 92.86        | 37           |
| Y <sub>M</sub>   | 92.7        | -20.34  | 87.77   | 90.1         | 103          |
| L <sub>M</sub>   | 83.81       | -80.84  | 76.81   | 111.52       | 136          |
| C <sub>M</sub>   | 87.01       | -45.27  | -13.32  | 47.2         | 196          |
| V <sub>M</sub>   | 33.06       | 70.03   | -99.08  | 121.34       | 305          |
| M <sub>M</sub>   | 58.17       | 91.8    | -57.02  | 108.07       | 328          |
| N <sub>M</sub>   | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>M</sub>   | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

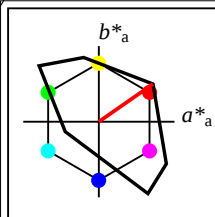


**%Gamut**  
**u\*<sub>rel</sub> = 134**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 21**  
**g\*<sub>C,rel</sub> = 39**

| TLS11a; adapted CIELAB data | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
|-----------------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>             | 51.65       | 74.2    | 55.83   | 92.86        | 37           |
| Y <sub>Ma</sub>             | 92.7        | -20.34  | 87.77   | 90.1         | 103          |
| L <sub>Ma</sub>             | 83.81       | -80.84  | 76.81   | 111.52       | 136          |
| C <sub>Ma</sub>             | 87.01       | -45.27  | -13.32  | 47.2         | 196          |
| V <sub>Ma</sub>             | 33.06       | 70.03   | -99.08  | 121.34       | 305          |
| M <sub>Ma</sub>             | 58.17       | 91.8    | -57.02  | 108.07       | 328          |
| N <sub>Ma</sub>             | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>            | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>            | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>            | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>            | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

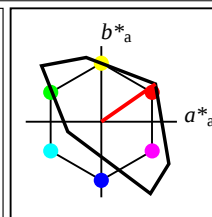
Data of 3x3x3=27 colors in colorimetric system TLS11; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| <i>n</i> | <i>no.</i> | <i>System</i> | <i>o</i> * <sub>3</sub> | <i>l</i> * <sub>3</sub> | <i>v</i> * <sub>3</sub> | <i>e</i> * | <i>t</i> * | <i>c</i> * | <i>h</i> * | <i>n</i> * | <i>w</i> * | <i>LCH</i> * <sub>CIE</sub> |       | <i>a</i> * <i>b</i> * <sub>CIE</sub> |       | <i>XYZ</i> <sub>CIE</sub> |      | <i>xy</i> <sub>CIE</sub> |       | <i>XYZ</i> <sub>RGB</sub> |       | <i>RGB</i> ' <sub>sRGB</sub> |       |       | <i>RGB</i> ' <sub>AdobeRGB</sub> |        |        |        |        |        |
|----------|------------|---------------|-------------------------|-------------------------|-------------------------|------------|------------|------------|------------|------------|------------|-----------------------------|-------|--------------------------------------|-------|---------------------------|------|--------------------------|-------|---------------------------|-------|------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|
| 0        | 2          | TLS11         | 0.0                     | 0.0                     | 0.0                     | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 0.0        | 11.0                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 1.2  | 1.3                      | 1.4   | 0.313                     | 0.313 | 0.014                        | 0.014 | 0.015 | 0.124                            | 0.124  | 0.124  | 0.145  | 0.145  | 0.145  |
| 1        | 2          | TLS11         | 0.0                     | 0.0                     | 0.5                     | 0.778      | 0.25       | 0.5        | 0.848      | 0.5        | 0.0        | 16.5                        | 60.7  | 305.3                                | 35.0  | −49.4                     | 4.1  | 2.2                      | 16.0  | 0.183                     | 0.183 | 0.046                        | 0.025 | 0.181 | 0.156                            | 0.096  | 0.472  | 0.16   | 0.12   | 0.46   |
| 2        | 2          | TLS11         | 0.0                     | 0.0                     | 1.0                     | 0.778      | 0.5        | 1.0        | 0.848      | 0.0        | 0.0        | 33.1                        | 121.3 | 305.3                                | 70.0  | −99.0                     | 17.0 | 7.6                      | 84.4  | 0.156                     | 0.156 | 0.191                        | 0.085 | 0.952 | 0.125                            | 0.124  | 1.0    | 0.145  | 0.144  | 0.981  |
| 3        | 2          | TLS11         | 0.0                     | 0.5                     | 0.0                     | 0.308      | 0.25       | 0.5        | 0.379      | 0.5        | 0.0        | 41.9                        | 55.8  | 136.5                                | −40.3 | 38.4                      | 7.0  | 12.4                     | 3.2   | 0.309                     | 0.309 | 0.079                        | 0.14  | 0.036 | 0.156                            | 0.472  | 0.12   | 0.296  | 0.469  | 0.171  |
| 4        | 2          | TLS11         | 0.0                     | 0.5                     | 0.5                     | 0.475      | 0.25       | 0.5        | 0.546      | 0.5        | 0.0        | 43.5                        | 23.6  | 196.4                                | −22.5 | −6.6                      | 9.7  | 13.5                     | 17.8  | 0.237                     | 0.237 | 0.11                         | 0.152 | 0.2   | 0.158                            | 0.471  | 0.469  | 0.296  | 0.467  | 0.466  |
| 5        | 2          | TLS11         | 0.0                     | 0.5                     | 1.0                     | 0.628      | 0.5        | 1.0        | 0.697      | 0.0        | 0.0        | 60.0                        | 84.3  | 250.8                                | −27.6 | −79.5                     | 20.5 | 28.2                     | 127.3 | 0.117                     | 0.117 | 0.232                        | 0.318 | 1.437 | −5.861                           | 0.688  | 1.183  | −0.482 | 0.682  | 1.174  |
| 6        | 2          | TLS11         | 0.0                     | 1.0                     | 0.0                     | 0.308      | 0.5        | 1.0        | 0.379      | 0.0        | 0.0        | 83.8                        | 111.5 | 136.5                                | −80.7 | 76.8                      | 32.4 | 63.7                     | 11.8  | 0.301                     | 0.301 | 0.366                        | 0.719 | 0.133 | 0.126                            | 1.0    | 0.124  | 0.574  | 1.0    | 0.267  |
| 7        | 2          | TLS11         | 0.0                     | 1.0                     | 0.5                     | 0.392      | 0.5        | 1.0        | 0.462      | 0.0        | 0.0        | 85.4                        | 79.4  | 166.4                                | −77.0 | 18.6                      | 35.5 | 66.8                     | 51.9  | 0.23                      | 0.23  | 0.4                          | 0.754 | 0.586 | −1.99                            | 1.022  | 0.727  | 0.469  | 1.023  | 0.737  |
| 8        | 2          | TLS11         | 0.0                     | 1.0                     | 1.0                     | 0.475      | 0.5        | 1.0        | 0.546      | 0.0        | 0.0        | 87.0                        | 47.2  | 196.4                                | −45.2 | −13.2                     | 48.2 | 70.0                     | 94.8  | 0.226                     | 0.226 | 0.544                        | 0.79  | 1.069 | 0.128                            | 1.0    | 1.0    | 0.574  | 1.0    | 1.0    |
| 9        | 2          | TLS11         | 0.5                     | 0.0                     | 0.0                     | 0.033      | 0.25       | 0.5        | 0.103      | 0.5        | 0.0        | 25.8                        | 46.4  | 37.0                                 | 37.1  | 27.9                      | 7.8  | 4.7                      | 1.2   | 0.571                     | 0.571 | 0.088                        | 0.053 | 0.013 | 0.482                            | 0.125  | 0.087  | 0.416  | 0.145  | 0.114  |
| 10       | 2          | TLS11         | 0.5                     | 0.0                     | 0.5                     | 0.842      | 0.25       | 0.5        | 0.912      | 0.5        | 0.0        | 29.1                        | 54.0  | 328.1                                | 45.9  | −28.4                     | 10.5 | 5.9                      | 16.3  | 0.322                     | 0.322 | 0.119                        | 0.066 | 0.184 | 0.475                            | 0.137  | 0.471  | 0.412  | 0.155  | 0.459  |
| 11       | 2          | TLS11         | 0.5                     | 0.0                     | 1.0                     | 0.811      | 0.5        | 1.0        | 0.88       | 0.0        | 0.0        | 45.6                        | 114.7 | 316.7                                | 83.5  | −78.6                     | 32.3 | 15.0                     | 86.0  | 0.242                     | 0.242 | 0.365                        | 0.169 | 0.971 | 0.693                            | 0.051  | 1.005  | 0.591  | 0.08   | 0.987  |
| 12       | 2          | TLS11         | 0.5                     | 0.5                     | 0.0                     | 0.217      | 0.25       | 0.5        | 0.286      | 0.5        | 0.0        | 46.3                        | 45.0  | 103.1                                | −10.1 | 43.9                      | 13.1 | 15.5                     | 3.5   | 0.409                     | 0.409 | 0.148                        | 0.175 | 0.04  | 0.475                            | 0.469  | 0.125  | 0.47   | 0.466  | 0.174  |
| 13       | 2          | TLS11         | 0.5                     | 0.5                     | 0.5                     | 0.0        | 0.5        | 0.0        | 0.0        | 0.5        | 0.5        | 53.2                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 20.2 | 21.2                     | 23.1  | 0.313                     | 0.313 | 0.228                        | 0.24  | 0.261 | 0.527                            | 0.527  | 0.527  | 0.522  | 0.522  | 0.522  |
| 14       | 2          | TLS11         | 0.5                     | 0.5                     | 1.0                     | 0.778      | 0.75       | 0.5        | 0.848      | 0.0        | 0.5        | 64.2                        | 60.7  | 305.3                                | 35.0  | −49.4                     | 42.0 | 33.1                     | 90.3  | 0.254                     | 0.254 | 0.474                        | 0.373 | 1.019 | 0.704                            | 0.569  | 1.012  | 0.663  | 0.564  | 0.998  |
| 15       | 2          | TLS11         | 0.5                     | 1.0                     | 0.0                     | 0.264      | 0.5        | 1.0        | 0.333      | 0.0        | 0.0        | 88.3                        | 100.8 | 119.8                                | −49.9 | 87.5                      | 48.4 | 72.6                     | 10.7  | 0.368                     | 0.368 | 0.547                        | 0.819 | 0.121 | 0.702                            | 1.006  | −0.119 | 0.799  | 1.006  | 0.211  |
| 16       | 2          | TLS11         | 0.5                     | 1.0                     | 0.5                     | 0.308      | 0.75       | 0.5        | 0.379      | 0.0        | 0.5        | 89.6                        | 55.8  | 136.5                                | −40.3 | 38.4                      | 54.3 | 75.5                     | 40.4  | 0.319                     | 0.319 | 0.612                        | 0.852 | 0.456 | 0.7                              | 1.01   | 0.62   | 0.8    | 1.01   | 0.636  |
| 17       | 2          | TLS11         | 0.5                     | 1.0                     | 1.0                     | 0.475      | 0.75       | 0.5        | 0.546      | 0.0        | 0.5        | 91.2                        | 23.6  | 196.4                                | −22.5 | −6.6                      | 64.5 | 78.9                     | 95.6  | 0.27                      | 0.27  | 0.728                        | 0.891 | 1.079 | 0.703                            | 1.005  | 1.0    | 0.8    | 1.005  | 1.0    |
| 18       | 2          | TLS11         | 1.0                     | 0.0                     | 0.0                     | 0.033      | 0.5        | 1.0        | 0.103      | 0.0        | 0.0        | 51.7                        | 92.9  | 37.0                                 | 74.2  | 55.8                      | 37.2 | 19.8                     | 3.1   | 0.619                     | 0.619 | 0.42                         | 0.224 | 0.035 | 1.0                              | 0.126  | 0.124  | 0.861  | 0.145  | 0.145  |
| 19       | 2          | TLS11         | 1.0                     | 0.0                     | 0.5                     | 0.939      | 0.5        | 1.0        | 0.007      | 0.0        | 0.0        | 54.9                        | 100.5 | 2.6                                  | 100.4 | 4.5                       | 50.9 | 22.8                     | 22.2  | 0.53                      | 0.53  | 0.574                        | 0.258 | 0.251 | 1.137                            | −0.804 | 0.532  | 0.972  | −0.283 | 0.515  |
| 20       | 2          | TLS11         | 1.0                     | 0.0                     | 1.0                     | 0.842      | 0.5        | 1.0        | 0.912      | 0.0        | 0.0        | 58.2                        | 108.1 | 328.1                                | 91.8  | −56.9                     | 53.0 | 26.1                     | 86.1  | 0.321                     | 0.321 | 0.598                        | 0.295 | 0.971 | 1.0                              | 0.126  | 1.0    | 0.861  | 0.145  | 0.981  |
| 21       | 2          | TLS11         | 1.0                     | 0.5                     | 0.0                     | 0.125      | 0.5        | 1.0        | 0.194      | 0.0        | 0.0        | 72.2                        | 91.5  | 70.0                                 | 31.3  | 86.0                      | 52.9 | 43.9                     | 3.9   | 0.525                     | 0.525 | 0.597                        | 0.496 | 0.044 | 1.064                            | 0.629  | −0.271 | 0.965  | 0.623  | −0.094 |
| 22       | 2          | TLS11         | 1.0                     | 0.5                     | 0.5                     | 0.033      | 0.75       | 0.5        | 0.103      | 0.0        | 0.5        | 73.5                        | 46.4  | 37.0                                 | 37.1  | 27.9                      | 57.6 | 46.0                     | 27.5  | 0.439                     | 0.439 | 0.65                         | 0.519 | 0.311 | 1.064                            | 0.632  | 0.546  | 0.966  | 0.626  | 0.544  |
| 23       | 2          | TLS11         | 1.0                     | 0.5                     | 1.0                     | 0.842      | 0.75       | 0.5        | 0.912      | 0.0        | 0.5        | 76.8                        | 54.0  | 328.1                                | 45.9  | −28.4                     | 67.4 | 51.2                     | 91.2  | 0.321                     | 0.321 | 0.761                        | 0.578 | 1.029 | 1.028                            | 0.657  | 1.005  | 0.94   | 0.651  | 0.994  |
| 24       | 2          | TLS11         | 1.0                     | 1.0                     | 0.0                     | 0.217      | 0.5        | 1.0        | 0.286      | 0.0        | 0.0        | 92.7                        | 90.1  | 103.1                                | −20.2 | 87.8                      | 68.5 | 82.3                     | 13.5  | 0.417                     | 0.417 | 0.773                        | 0.929 | 0.152 | 1.0                              | 1.0    | 0.124  | 1.0    | 1.0    | 0.267  |
| 25       | 2          | TLS11         | 1.0                     | 1.0                     | 0.5                     | 0.217      | 0.75       | 0.5        | 0.286      | 0.0        | 0.5        | 94.1                        | 45.0  | 103.1                                | −10.1 | 43.9                      | 76.1 | 85.4                     | 42.2  | 0.373                     | 0.373 | 0.858                        | 0.964 | 0.477 | 1.027                            | 0.998  | 0.63   | 1.02   | 0.998  | 0.645  |
| 26       | 2          | TLS11         | 1.0                     | 1.0                     | 1.0                     | 0.0        | 1.0        | 0.0        | 0.0        | 0.0        | 1.0        | 95.4                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 84.2 | 88.6                     | 96.5  | 0.313                     | 0.313 | 0.95                         | 1.0   | 1.089 | 1.0                              | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |



**%Gamut**  
**u\*<sub>rel</sub> = 118**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 22**  
**g\*<sub>C,rel</sub> = 40**

| TLS18            |             |         |         |              |              |
|------------------|-------------|---------|---------|--------------|--------------|
|                  | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
| O <sub>M</sub>   | 52.76       | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>M</sub>   | 92.74       | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>M</sub>   | 84.0        | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>M</sub>   | 87.14       | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>M</sub>   | 35.47       | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>M</sub>   | 59.01       | 89.33   | -55.67  | 105.26       | 328          |
| N <sub>M</sub>   | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>M</sub>   | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



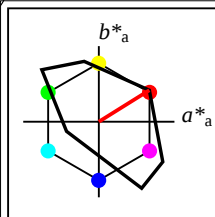
**%Gamut**  
**u\*<sub>rel</sub> = 118**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 22**  
**g\*<sub>C,rel</sub> = 40**

| TLS18a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
| O <sub>Ma</sub>             | 52.76       | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>             | 92.74       | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>             | 84.0        | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>             | 87.14       | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>             | 35.47       | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>             | 59.01       | 89.33   | -55.67  | 105.26       | 328          |
| N <sub>Ma</sub>             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>            | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>            | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>            | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>            | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

input: *olv\** *setrgbcolor*  
output: *olv\** (TRI9) *setrgbcolor*

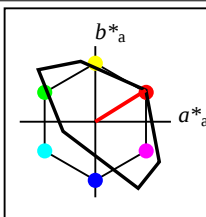
Data of 3x3x3=27 colors in colorimetric system TLS18; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| <i>n</i> | <i>no.</i> | <i>System</i> | <i>o</i> * <sub>3</sub> | <i>l</i> * <sub>3</sub> | <i>v</i> * <sub>3</sub> | <i>e</i> * | <i>t</i> * | <i>c</i> * | <i>h</i> * | <i>n</i> * | <i>w</i> * | <i>LCH</i> * <sub>CIE</sub> |       | <i>a</i> * <i>b</i> * <sub>CIE</sub> |       | <i>XYZ</i> <sub>CIE</sub> |      | <i>xy</i> <sub>CIE</sub> |       | <i>XYZ</i> <sub>RGB</sub> |       | <i>RGB</i> ' <sub>sRGB</sub> |       |       | <i>RGB</i> ' <sub>AdobeRGB</sub> |        |        |        |        |       |
|----------|------------|---------------|-------------------------|-------------------------|-------------------------|------------|------------|------------|------------|------------|------------|-----------------------------|-------|--------------------------------------|-------|---------------------------|------|--------------------------|-------|---------------------------|-------|------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|-------|
| 0        | 3          | TLS18         | 0.0                     | 0.0                     | 0.0                     | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 0.0        | 18.0                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 2.4  | 2.5                      | 2.7   | 0.313                     | 0.313 | 0.027                        | 0.028 | 0.031 | 0.184                            | 0.184  | 0.184  | 0.198  | 0.198  | 0.198 |
| 1        | 3          | TLS18         | 0.0                     | 0.0                     | 0.5                     | 0.775      | 0.25       | 0.5        | 0.845      | 0.5        | 0.0        | 17.7                        | 57.6  | 304.3                                | 32.5  | −47.4                     | 4.3  | 2.5                      | 16.1  | 0.188                     | 0.188 | 0.048                        | 0.028 | 0.181 | 0.166                            | 0.117  | 0.472  | 0.17   | 0.138  | 0.46  |
| 2        | 3          | TLS18         | 0.0                     | 0.0                     | 1.0                     | 0.775      | 0.5        | 1.0        | 0.845      | 0.0        | 0.0        | 35.5                        | 115.1 | 304.3                                | 64.9  | −95.0                     | 17.9 | 8.7                      | 84.5  | 0.161                     | 0.161 | 0.202                        | 0.099 | 0.954 | 0.185                            | 0.185  | 1.0    | 0.199  | 0.198  | 0.981 |
| 3        | 3          | TLS18         | 0.0                     | 0.5                     | 0.0                     | 0.311      | 0.25       | 0.5        | 0.38       | 0.5        | 0.0        | 42.0                        | 54.1  | 136.9                                | −39.4 | 37.0                      | 7.1  | 12.5                     | 3.4   | 0.308                     | 0.308 | 0.08                         | 0.141 | 0.038 | 0.166                            | 0.472  | 0.135  | 0.299  | 0.468  | 0.181 |
| 4        | 3          | TLS18         | 0.0                     | 0.5                     | 0.5                     | 0.475      | 0.25       | 0.5        | 0.546      | 0.5        | 0.0        | 43.6                        | 23.2  | 196.5                                | −22.1 | −6.5                      | 9.8  | 13.5                     | 17.8  | 0.239                     | 0.239 | 0.111                        | 0.153 | 0.2   | 0.168                            | 0.471  | 0.469  | 0.3    | 0.467  | 0.466 |
| 5        | 3          | TLS18         | 0.0                     | 0.5                     | 1.0                     | 0.625      | 0.5        | 1.0        | 0.696      | 0.0        | 0.0        | 61.3                        | 80.7  | 250.4                                | −27.0 | −75.9                     | 21.8 | 29.6                     | 124.8 | 0.124                     | 0.124 | 0.246                        | 0.334 | 1.409 | −5.403                           | 0.699  | 1.171  | −0.448 | 0.693  | 1.163 |
| 6        | 3          | TLS18         | 0.0                     | 1.0                     | 0.0                     | 0.311      | 0.5        | 1.0        | 0.38       | 0.0        | 0.0        | 84.0                        | 108.2 | 136.9                                | −78.9 | 73.9                      | 33.2 | 64.1                     | 13.0  | 0.301                     | 0.301 | 0.374                        | 0.723 | 0.147 | 0.186                            | 1.0    | 0.184  | 0.583  | 1.0    | 0.295 |
| 7        | 3          | TLS18         | 0.0                     | 1.0                     | 0.5                     | 0.394      | 0.5        | 1.0        | 0.463      | 0.0        | 0.0        | 85.6                        | 77.3  | 166.7                                | −75.1 | 17.8                      | 36.3 | 67.1                     | 53.0  | 0.232                     | 0.232 | 0.409                        | 0.758 | 0.598 | −1.766                           | 1.022  | 0.736  | 0.482  | 1.022  | 0.745 |
| 8        | 3          | TLS18         | 0.0                     | 1.0                     | 1.0                     | 0.475      | 0.5        | 1.0        | 0.546      | 0.0        | 0.0        | 87.1                        | 46.3  | 196.5                                | −44.3 | −13.0                     | 48.7 | 70.3                     | 94.8  | 0.228                     | 0.228 | 0.55                         | 0.793 | 1.07  | 0.187                            | 1.0    | 1.0    | 0.583  | 1.0    | 1.0   |
| 9        | 3          | TLS18         | 0.5                     | 0.0                     | 0.0                     | 0.028      | 0.25       | 0.5        | 0.097      | 0.5        | 0.0        | 26.4                        | 43.6  | 34.9                                 | 35.8  | 24.9                      | 7.9  | 4.9                      | 1.5   | 0.554                     | 0.554 | 0.09                         | 0.055 | 0.017 | 0.481                            | 0.139  | 0.111  | 0.417  | 0.158  | 0.134 |
| 10       | 3          | TLS18         | 0.5                     | 0.0                     | 0.5                     | 0.842      | 0.25       | 0.5        | 0.911      | 0.5        | 0.0        | 29.5                        | 52.6  | 328.1                                | 44.7  | −27.7                     | 10.6 | 6.0                      | 16.3  | 0.322                     | 0.322 | 0.12                         | 0.068 | 0.185 | 0.475                            | 0.149  | 0.471  | 0.412  | 0.166  | 0.46  |
| 11       | 3          | TLS18         | 0.5                     | 0.0                     | 1.0                     | 0.808      | 0.5        | 1.0        | 0.878      | 0.0        | 0.0        | 47.2                        | 110.2 | 316.2                                | 79.5  | −76.2                     | 33.2 | 16.2                     | 86.6  | 0.244                     | 0.244 | 0.375                        | 0.183 | 0.978 | 0.698                            | 0.155  | 1.007  | 0.599  | 0.171  | 0.989 |
| 12       | 3          | TLS18         | 0.5                     | 0.5                     | 0.0                     | 0.217      | 0.25       | 0.5        | 0.287      | 0.5        | 0.0        | 46.4                        | 43.6  | 103.3                                | −9.9  | 42.5                      | 13.2 | 15.5                     | 3.7   | 0.406                     | 0.406 | 0.149                        | 0.175 | 0.042 | 0.475                            | 0.469  | 0.139  | 0.47   | 0.466  | 0.184 |
| 13       | 3          | TLS18         | 0.5                     | 0.5                     | 0.5                     | 0.0        | 0.5        | 0.0        | 0.0        | 0.5        | 0.5        | 56.7                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 23.4 | 24.6                     | 26.8  | 0.313                     | 0.313 | 0.264                        | 0.278 | 0.303 | 0.564                            | 0.564  | 0.564  | 0.559  | 0.559  | 0.559 |
| 14       | 3          | TLS18         | 0.5                     | 0.5                     | 1.0                     | 0.775      | 0.75       | 0.5        | 0.845      | 0.0        | 0.5        | 65.4                        | 57.6  | 304.3                                | 32.5  | −47.4                     | 42.9 | 34.6                     | 90.4  | 0.255                     | 0.255 | 0.484                        | 0.391 | 1.02  | 0.708                            | 0.589  | 1.011  | 0.671  | 0.584  | 0.998 |
| 15       | 3          | TLS18         | 0.5                     | 1.0                     | 0.0                     | 0.264      | 0.5        | 1.0        | 0.334      | 0.0        | 0.0        | 88.4                        | 97.7  | 120.1                                | −48.9 | 84.6                      | 49.0 | 72.8                     | 11.8  | 0.367                     | 0.367 | 0.553                        | 0.822 | 0.133 | 0.709                            | 1.005  | 0.05   | 0.804  | 1.005  | 0.245 |
| 16       | 3          | TLS18         | 0.5                     | 1.0                     | 0.5                     | 0.311      | 0.75       | 0.5        | 0.38       | 0.0        | 0.5        | 89.7                        | 54.1  | 136.9                                | −39.4 | 37.0                      | 54.8 | 75.7                     | 41.7  | 0.318                     | 0.318 | 0.618                        | 0.854 | 0.471 | 0.706                            | 1.01   | 0.633  | 0.803  | 1.01   | 0.648 |
| 17       | 3          | TLS18         | 0.5                     | 1.0                     | 1.0                     | 0.475      | 0.75       | 0.5        | 0.546      | 0.0        | 0.5        | 91.3                        | 23.2  | 196.5                                | −22.1 | −6.5                      | 64.9 | 79.1                     | 95.6  | 0.271                     | 0.271 | 0.732                        | 0.893 | 1.079 | 0.71                             | 1.004  | 1.0    | 0.803  | 1.005  | 1.0   |
| 18       | 3          | TLS18         | 1.0                     | 0.0                     | 0.0                     | 0.028      | 0.5        | 1.0        | 0.097      | 0.0        | 0.0        | 52.8                        | 87.3  | 34.9                                 | 71.6  | 49.9                      | 37.9 | 20.8                     | 4.4   | 0.6                       | 0.6   | 0.428                        | 0.235 | 0.05  | 1.0                              | 0.185  | 0.184  | 0.863  | 0.198  | 0.198 |
| 19       | 3          | TLS18         | 1.0                     | 0.0                     | 0.5                     | 0.933      | 0.5        | 1.0        | 0.004      | 0.0        | 0.0        | 55.9                        | 96.3  | 1.5                                  | 96.2  | 2.4                       | 50.9 | 23.8                     | 24.4  | 0.514                     | 0.514 | 0.575                        | 0.269 | 0.276 | 1.126                            | −0.534 | 0.555  | 0.966  | −0.235 | 0.538 |
| 20       | 3          | TLS18         | 1.0                     | 0.0                     | 1.0                     | 0.842      | 0.5        | 1.0        | 0.911      | 0.0        | 0.0        | 59.0                        | 105.3 | 328.1                                | 89.3  | −55.6                     | 53.4 | 27.0                     | 86.2  | 0.321                     | 0.321 | 0.603                        | 0.305 | 0.973 | 1.0                              | 0.185  | 1.0    | 0.863  | 0.198  | 0.981 |
| 21       | 3          | TLS18         | 1.0                     | 0.5                     | 0.0                     | 0.122      | 0.5        | 1.0        | 0.192      | 0.0        | 0.0        | 72.7                        | 87.3  | 69.1                                 | 31.2  | 81.5                      | 53.9 | 44.8                     | 5.0   | 0.52                      | 0.52  | 0.608                        | 0.505 | 0.056 | 1.069                            | 0.636  | −0.127 | 0.97   | 0.63   | 0.093 |
| 22       | 3          | TLS18         | 1.0                     | 0.5                     | 0.5                     | 0.028      | 0.75       | 0.5        | 0.097      | 0.0        | 0.5        | 74.1                        | 43.6  | 34.9                                 | 35.8  | 24.9                      | 58.0 | 46.8                     | 30.2  | 0.43                      | 0.43  | 0.655                        | 0.529 | 0.341 | 1.059                            | 0.643  | 0.574  | 0.963  | 0.637  | 0.571 |
| 23       | 3          | TLS18         | 1.0                     | 0.5                     | 1.0                     | 0.842      | 0.75       | 0.5        | 0.911      | 0.0        | 0.5        | 77.2                        | 52.6  | 328.1                                | 44.7  | −27.7                     | 67.7 | 51.9                     | 91.2  | 0.321                     | 0.321 | 0.764                        | 0.586 | 1.03  | 1.026                            | 0.666  | 1.005  | 0.94   | 0.66   | 0.994 |
| 24       | 3          | TLS18         | 1.0                     | 1.0                     | 0.0                     | 0.217      | 0.5        | 1.0        | 0.287      | 0.0        | 0.0        | 92.7                        | 87.3  | 103.3                                | −19.9 | 85.0                      | 68.7 | 82.4                     | 14.7  | 0.414                     | 0.414 | 0.775                        | 0.93  | 0.166 | 1.0                              | 1.0    | 0.184  | 1.0    | 1.0    | 0.295 |
| 25       | 3          | TLS18         | 1.0                     | 1.0                     | 0.5                     | 0.217      | 0.75       | 0.5        | 0.287      | 0.0        | 0.5        | 94.1                        | 43.6  | 103.3                                | −9.9  | 42.5                      | 76.2 | 85.4                     | 43.5  | 0.371                     | 0.371 | 0.86                         | 0.964 | 0.491 | 1.026                            | 0.998  | 0.642  | 1.019  | 0.998  | 0.656 |
| 26       | 3          | TLS18         | 1.0                     | 1.0                     | 1.0                     | 0.0        | 1.0        | 0.0        | 0.0        | 0.0        | 1.0        | 95.4                        | 0.0   | 0.0                                  | 0.0   | 0.0                       | 84.2 | 88.6                     | 96.5  | 0.313                     | 0.313 | 0.95                         | 1.0   | 1.089 | 1.0                              | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   |



%Gamut  
 $u^*_{rel} = 98$   
%Regularity  
 $g^*_{H,rel} = 24$   
 $g^*_{C,rel} = 43$

| TLS28     |             |         |         |              |              |
|-----------|-------------|---------|---------|--------------|--------------|
|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_M$     | 54.88       | 66.84   | 41.69   | 78.78        | 32           |
| $Y_M$     | 92.82       | -19.38  | 79.81   | 82.13        | 104          |
| $L_M$     | 84.37       | -75.38  | 68.76   | 102.04       | 138          |
| $C_M$     | 87.4        | -42.71  | -12.69  | 44.57        | 197          |
| $V_M$     | 39.7        | 56.66   | -88.01  | 104.68       | 303          |
| $M_M$     | 60.64       | 84.61   | -53.07  | 99.88        | 328          |
| $N_M$     | 26.85       | 0.0     | 0.0     | 0.0          | 0            |
| $W_M$     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

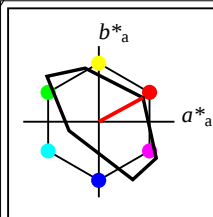


%Gamut  
 $u^*_{rel} = 98$   
%Regularity  
 $g^*_{H,rel} = 24$   
 $g^*_{C,rel} = 43$

| TLS28a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_{Ma}$                    | 54.88       | 66.84   | 41.69   | 78.78        | 32           |
| $Y_{Ma}$                    | 92.82       | -19.38  | 79.81   | 82.13        | 104          |
| $L_{Ma}$                    | 84.37       | -75.38  | 68.76   | 102.04       | 138          |
| $C_{Ma}$                    | 87.4        | -42.71  | -12.69  | 44.57        | 197          |
| $V_{Ma}$                    | 39.7        | 56.66   | -88.01  | 104.68       | 303          |
| $M_{Ma}$                    | 60.64       | 84.61   | -53.07  | 99.88        | 328          |
| $N_{Ma}$                    | 26.85       | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$                    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$                   | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$                   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$                   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$                   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

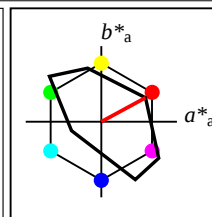
Data of 3x3x3=27 colors in colorimetric system TLS28; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| n  | no. | System | $\rho^*_3$ | $l^*_3$ | $v^*_3$ | $e^*$ | $t^*$ | $c^*$ | $h^*$ | $n^*$ | $w^*$ | $LCH^*_{CIE}$ |       | $a^*b^*_{CIE}$ |       | $XYZ_{CIE}$ |      | $xy_{CIE}$ |       | $XYZ_{RGB}$ |       | $RGB'_{sRGB}$ |       |       | $RGB'_{AdobeRGB}$ |        |       |        |        |                                                                                     |                                                                                       |
|----|-----|--------|------------|---------|---------|-------|-------|-------|-------|-------|-------|---------------|-------|----------------|-------|-------------|------|------------|-------|-------------|-------|---------------|-------|-------|-------------------|--------|-------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0  | 4   | TLS28  | 0.0        | 0.0     | 0.0     | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 26.9          | 0.0   | 0.0            | 0.0   | 4.8         | 5.0  | 5.5        | 0.313 | 0.313       | 0.054 | 0.057         | 0.062 | 0.265 | 0.265             | 0.265  | 0.272 | 0.272  | 0.272  |  |                                                                                       |
| 1  | 4   | TLS28  | 0.0        | 0.0     | 0.5     | 0.772 | 0.25  | 0.5   | 0.841 | 0.5   | 0.0   | 19.9          | 52.3  | 302.8          | 28.3  | -43.9       | 4.6  | 3.0        | 16.1  | 0.196       | 0.196 | 0.052         | 0.033 | 0.182 | 0.183             | 0.148  | 0.471 | 0.189  | 0.166  | 0.46                                                                                |    |
| 2  | 4   | TLS28  | 0.0        | 0.0     | 1.0     | 0.772 | 0.5   | 1.0   | 0.841 | 0.0   | 0.0   | 39.7          | 104.7 | 302.8          | 56.7  | -87.9       | 19.9 | 11.1       | 84.9  | 0.172       | 0.172 | 0.224         | 0.125 | 0.958 | 0.265             | 0.265  | 1.0   | 0.272  | 0.272  | 0.982                                                                               |    |
| 3  | 4   | TLS28  | 0.0        | 0.5     | 0.0     | 0.314 | 0.25  | 0.5   | 0.382 | 0.5   | 0.0   | 42.2          | 51.0  | 137.6          | -37.6 | 34.4        | 7.4  | 12.6       | 3.9   | 0.308       | 0.308 | 0.083         | 0.142 | 0.044 | 0.184             | 0.471  | 0.161 | 0.306  | 0.468  | 0.2                                                                                 |    |
| 4  | 4   | TLS28  | 0.0        | 0.5     | 0.5     | 0.478 | 0.25  | 0.5   | 0.546 | 0.5   | 0.0   | 43.7          | 22.3  | 196.6          | -21.3 | -6.3        | 10.0 | 13.6       | 17.8  | 0.241       | 0.241 | 0.113         | 0.154 | 0.201 | 0.186             | 0.47   | 0.469 | 0.306  | 0.467  | 0.466                                                                               |    |
| 5  | 4   | TLS28  | 0.0        | 0.5     | 1.0     | 0.625 | 0.5   | 1.0   | 0.694 | 0.0   | 0.0   | 63.6          | 74.6  | 249.7          | -25.8 | -69.9       | 24.2 | 32.3       | 121.0 | 0.136       | 0.136 | 0.273         | 0.364 | 1.365 | -4.582            | 0.718  | 1.153 | -0.378 | 0.713  | 1.145                                                                               |    |
| 6  | 4   | TLS28  | 0.0        | 1.0     | 0.0     | 0.314 | 0.5   | 1.0   | 0.382 | 0.0   | 0.0   | 84.4          | 102.0 | 137.6          | -75.3 | 68.8        | 34.7 | 64.8       | 15.4  | 0.302       | 0.302 | 0.391         | 0.731 | 0.174 | 0.265             | 1.0    | 0.264 | 0.6    | 1.0    | 0.344                                                                               |    |
| 7  | 4   | TLS28  | 0.0        | 1.0     | 0.5     | 0.394 | 0.5   | 1.0   | 0.464 | 0.0   | 0.0   | 85.9          | 73.3  | 167.1          | -71.4 | 16.4        | 37.8 | 67.8       | 55.0  | 0.235       | 0.235 | 0.427         | 0.765 | 0.621 | -1.323            | 1.02   | 0.751 | 0.507  | 1.021  | 0.759                                                                               |    |
| 8  | 4   | TLS28  | 0.0        | 1.0     | 1.0     | 0.478 | 0.5   | 1.0   | 0.546 | 0.0   | 0.0   | 87.4          | 44.6  | 196.6          | -42.6 | -12.6       | 49.8 | 70.8       | 94.8  | 0.231       | 0.231 | 0.562         | 0.799 | 1.07  | 0.266             | 1.0    | 1.0   | 0.601  | 1.0    | 1.0                                                                                 |    |
| 9  | 4   | TLS28  | 0.5        | 0.0     | 0.0     | 0.019 | 0.25  | 0.5   | 0.089 | 0.5   | 0.0   | 27.4          | 39.4  | 32.0           | 33.4  | 20.8        | 8.2  | 5.3        | 2.1   | 0.525       | 0.525 | 0.092         | 0.059 | 0.024 | 0.48              | 0.164  | 0.146 | 0.417  | 0.179  | 0.164                                                                               |    |
| 10 | 4   | TLS28  | 0.5        | 0.0     | 0.5     | 0.842 | 0.25  | 0.5   | 0.911 | 0.5   | 0.0   | 30.3          | 49.9  | 327.9          | 42.3  | -26.4       | 10.8 | 6.4        | 16.4  | 0.321       | 0.321 | 0.122         | 0.072 | 0.185 | 0.475             | 0.171  | 0.47  | 0.414  | 0.186  | 0.46                                                                                |    |
| 11 | 4   | TLS28  | 0.5        | 0.0     | 1.0     | 0.806 | 0.5   | 1.0   | 0.876 | 0.0   | 0.0   | 50.2          | 102.3 | 315.3          | 72.7  | -71.8       | 34.9 | 18.6       | 87.6  | 0.247       | 0.247 | 0.394         | 0.209 | 0.988 | 0.709             | 0.255  | 1.01  | 0.616  | 0.262  | 0.993                                                                               |    |
| 12 | 4   | TLS28  | 0.5        | 0.5     | 0.0     | 0.219 | 0.25  | 0.5   | 0.288 | 0.5   | 0.0   | 46.4          | 41.1  | 103.7          | -9.6  | 39.9        | 13.3 | 15.6       | 4.2   | 0.401       | 0.401 | 0.15          | 0.176 | 0.048 | 0.474             | 0.469  | 0.164 | 0.47   | 0.466  | 0.202                                                                               |    |
| 13 | 4   | TLS28  | 0.5        | 0.5     | 0.5     | 0.0   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   | 61.1          | 0.0   | 0.0            | 0.0   | 0.0         | 27.9 | 29.4       | 32.0  | 0.313       | 0.313 | 0.315         | 0.332 | 0.361 | 0.611             | 0.611  | 0.611 | 0.606  | 0.606  | 0.606                                                                               |    |
| 14 | 4   | TLS28  | 0.5        | 0.5     | 1.0     | 0.772 | 0.75  | 0.5   | 0.841 | 0.0   | 0.5   | 67.6          | 52.3  | 302.8          | 28.3  | -43.9       | 44.6 | 37.4       | 90.6  | 0.258       | 0.258 | 0.503         | 0.422 | 1.022 | 0.717             | 0.623  | 1.01  | 0.686  | 0.617  | 0.997                                                                               |    |
| 15 | 4   | TLS28  | 0.5        | 1.0     | 0.0     | 0.267 | 0.5   | 1.0   | 0.335 | 0.0   | 0.0   | 88.6          | 92.1  | 120.6          | -46.8 | 79.2        | 50.1 | 73.3       | 14.1  | 0.364       | 0.364 | 0.566         | 0.827 | 0.159 | 0.723             | 1.005  | 0.192 | 0.812  | 1.005  | 0.3                                                                                 |    |
| 16 | 4   | TLS28  | 0.5        | 1.0     | 0.5     | 0.314 | 0.75  | 0.5   | 0.382 | 0.0   | 0.5   | 89.9          | 51.0  | 137.6          | -37.6 | 34.4        | 55.8 | 76.1       | 44.3  | 0.317       | 0.317 | 0.63          | 0.859 | 0.5   | 0.717             | 1.009  | 0.656 | 0.81   | 1.009  | 0.67                                                                                |    |
| 17 | 4   | TLS28  | 0.5        | 1.0     | 1.0     | 0.478 | 0.75  | 0.5   | 0.546 | 0.0   | 0.5   | 91.4          | 22.3  | 196.6          | -21.3 | -6.3        | 65.5 | 79.4       | 95.6  | 0.272       | 0.272 | 0.739         | 0.896 | 1.079 | 0.722             | 1.004  | 1.0   | 0.811  | 1.004  | 1.0                                                                                 |    |
| 18 | 4   | TLS28  | 1.0        | 0.0     | 0.0     | 0.019 | 0.5   | 1.0   | 0.089 | 0.0   | 0.0   | 54.9          | 78.8  | 32.0           | 66.8  | 41.7        | 39.3 | 22.8       | 7.1   | 0.567       | 0.567 | 0.443         | 0.257 | 0.08  | 1.0               | 0.265  | 0.265 | 0.867  | 0.272  | 0.272                                                                               |    |
| 19 | 4   | TLS28  | 1.0        | 0.0     | 0.5     | 0.931 | 0.5   | 1.0   | 1.0   | 0.0   | 0.0   | 57.8          | 89.3  | 359.9          | 89.3  | 0.0         | 51.4 | 25.7       | 28.1  | 0.488       | 0.488 | 0.58          | 0.29  | 0.317 | 1.112             | -0.052 | 0.591 | 0.958  | -0.084 | 0.574                                                                               |    |
| 20 | 4   | TLS28  | 1.0        | 0.0     | 1.0     | 0.842 | 0.5   | 1.0   | 0.911 | 0.0   | 0.0   | 60.6          | 99.9  | 327.9          | 84.6  | -53.0       | 54.3 | 28.8       | 86.5  | 0.32        | 0.32  | 0.613         | 0.326 | 0.976 | 1.0               | 0.265  | 1.0   | 0.867  | 0.272  | 0.982                                                                               |    |
| 21 | 4   | TLS28  | 1.0        | 0.5     | 0.0     | 0.119 | 0.5   | 1.0   | 0.188 | 0.0   | 0.0   | 73.8          | 80.5  | 67.8           | 30.4  | 74.5        | 55.4 | 46.5       | 7.1   | 0.509       | 0.509 | 0.625         | 0.524 | 0.08  | 1.075             | 0.651  | 0.114 | 0.978  | 0.645  | 0.195                                                                               |    |
| 22 | 4   | TLS28  | 1.0        | 0.5     | 0.5     | 0.019 | 0.75  | 0.5   | 0.089 | 0.0   | 0.5   | 75.1          | 39.4  | 32.0           | 33.4  | 20.8        | 58.9 | 48.5       | 34.5  | 0.415       | 0.415 | 0.665         | 0.548 | 0.389 | 1.051             | 0.665  | 0.615 | 0.96   | 0.658  | 0.612                                                                               |    |
| 23 | 4   | TLS28  | 1.0        | 0.5     | 1.0     | 0.842 | 0.75  | 0.5   | 0.911 | 0.0   | 0.5   | 78.0          | 49.9  | 327.9          | 42.3  | -26.4       | 68.2 | 53.3       | 91.4  | 0.32        | 0.32  | 0.77          | 0.601 | 1.032 | 1.024             | 0.684  | 1.005 | 0.942  | 0.677  | 0.994                                                                               |   |
| 24 | 4   | TLS28  | 1.0        | 1.0     | 0.0     | 0.219 | 0.5   | 1.0   | 0.288 | 0.0   | 0.0   | 92.8          | 82.1  | 103.7          | -19.3 | 79.8        | 69.1 | 82.6       | 17.1  | 0.41        | 0.41  | 0.78          | 0.932 | 0.193 | 1.0               | 1.0    | 0.264 | 1.0    | 1.0    | 0.344                                                                               |  |
| 25 | 4   | TLS28  | 1.0        | 1.0     | 0.5     | 0.219 | 0.75  | 0.5   | 0.288 | 0.0   | 0.5   | 94.1          | 41.1  | 103.7          | -9.6  | 39.9        | 76.4 | 85.5       | 45.9  | 0.368       | 0.368 | 0.863         | 0.965 | 0.518 | 1.023             | 0.999  | 0.664 | 1.017  | 0.998  | 0.676                                                                               |  |
| 26 | 4   | TLS28  | 1.0        | 1.0     | 1.0     | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 95.4          | 0.0   | 0.0            | 0.0   | 0.0         | 84.2 | 88.6       | 96.5  | 0.313       | 0.313 | 0.95          | 1.0   | 1.089 | 1.0               | 1.0    | 1.0   | 1.0    | 1.0    | 1.0                                                                                 |  |



**%Gamut**  
 $u^*_{rel} = 72$   
**%Regularity**  
 $g^*_{H,rel} = 26$   
 $g^*_{C,rel} = 45$

| TLS38     |             |         |         |              |              |
|-----------|-------------|---------|---------|--------------|--------------|
|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_M$     | 58.77       | 58.45   | 31.73   | 66.51        | 28           |
| $Y_M$     | 92.98       | -18.1   | 70.81   | 73.09        | 104          |
| $L_M$     | 85.11       | -68.57  | 60.02   | 91.14        | 139          |
| $C_M$     | 87.92       | -39.41  | -11.86  | 41.17        | 197          |
| $V_M$     | 46.64       | 44.93   | -76.55  | 88.77        | 300          |
| $M_M$     | 63.71       | 75.92   | -48.21  | 89.94        | 328          |
| $N_M$     | 37.99       | 0.0     | 0.0     | 0.0          | 0            |
| $W_M$     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

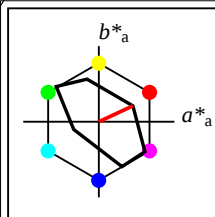


**%Gamut**  
 $u^*_{rel} = 72$   
**%Regularity**  
 $g^*_{H,rel} = 26$   
 $g^*_{C,rel} = 45$

| TLS38a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_{Ma}$                    | 58.77       | 58.45   | 31.73   | 66.51        | 28           |
| $Y_{Ma}$                    | 92.98       | -18.1   | 70.81   | 73.09        | 104          |
| $L_{Ma}$                    | 85.11       | -68.57  | 60.02   | 91.14        | 139          |
| $C_{Ma}$                    | 87.92       | -39.41  | -11.86  | 41.17        | 197          |
| $V_{Ma}$                    | 46.64       | 44.93   | -76.55  | 88.77        | 300          |
| $M_{Ma}$                    | 63.71       | 75.92   | -48.21  | 89.94        | 328          |
| $N_{Ma}$                    | 37.99       | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$                    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$                   | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$                   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$                   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$                   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

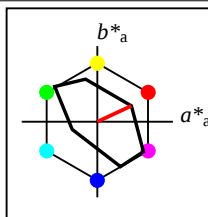
Data of 3x3x3=27 colors in colorimetric system TLS38; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| n  | no. | System | $\rho^*_3$ | $l^*_3$ | $v^*_3$ | $e^*$ | $t^*$ | $c^*$ | $h^*$ | $n^*$ | $w^*$ | $LCH^*_{CIE}$ |      | $a^*b^*_{CIE}$ |       | $XYZ_{CIE}$ |      | $xy_{CIE}$ |       | $XYZ_{RGB}$ |       | $RGB'_{sRGB}$ |       |       | $RGB'_{AdobeRGB}$ |       |       |        |       |                                                                                     |                                                                                       |
|----|-----|--------|------------|---------|---------|-------|-------|-------|-------|-------|-------|---------------|------|----------------|-------|-------------|------|------------|-------|-------------|-------|---------------|-------|-------|-------------------|-------|-------|--------|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0  | 5   | TLS38  | 0.0        | 0.0     | 0.0     | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 38.0          | 0.0  | 0.0            | 0.0   | 9.6         | 10.1 | 11.0       | 0.313 | 0.313       | 0.108 | 0.114         | 0.124 | 0.372 | 0.372             | 0.372 | 0.372 | 0.372  | 0.372 |  |                                                                                       |
| 1  | 5   | TLS38  | 0.0        | 0.0     | 0.5     | 0.764 | 0.25  | 0.5   | 0.834 | 0.5   | 0.0   | 23.3          | 44.4 | 300.4          | 22.5  | -38.2       | 5.4  | 3.9        | 16.2  | 0.211       | 0.211 | 0.061         | 0.044 | 0.183 | 0.214             | 0.194 | 0.471 | 0.22   | 0.207 | 0.461                                                                               |    |
| 2  | 5   | TLS38  | 0.0        | 0.0     | 1.0     | 0.764 | 0.5   | 1.0   | 0.834 | 0.0   | 0.0   | 46.6          | 88.8 | 300.4          | 44.9  | -76.5       | 23.8 | 15.7       | 85.6  | 0.19        | 0.19  | 0.268         | 0.178 | 0.966 | 0.372             | 0.372 | 1.0   | 0.372  | 0.372 | 0.983                                                                               |    |
| 3  | 5   | TLS38  | 0.0        | 0.5     | 0.0     | 0.317 | 0.25  | 0.5   | 0.386 | 0.5   | 0.0   | 42.6          | 45.6 | 138.8          | -34.2 | 30.0        | 7.9  | 12.9       | 4.9   | 0.308       | 0.308 | 0.089         | 0.145 | 0.055 | 0.215             | 0.471 | 0.201 | 0.319  | 0.468 | 0.231                                                                               |    |
| 4  | 5   | TLS38  | 0.0        | 0.5     | 0.5     | 0.478 | 0.25  | 0.5   | 0.547 | 0.5   | 0.0   | 44.0          | 20.6 | 196.8          | -19.6 | -5.8        | 10.3 | 13.8       | 17.8  | 0.247       | 0.247 | 0.117         | 0.156 | 0.201 | 0.217             | 0.47  | 0.469 | 0.319  | 0.467 | 0.466                                                                               |    |
| 5  | 5   | TLS38  | 0.0        | 0.5     | 1.0     | 0.622 | 0.5   | 1.0   | 0.691 | 0.0   | 0.0   | 67.3          | 65.0 | 248.6          | -23.6 | -60.4       | 28.6 | 37.0       | 115.7 | 0.158       | 0.158 | 0.323         | 0.418 | 1.306 | -3.166            | 0.751 | 1.127 | -0.189 | 0.746 | 1.119                                                                               |    |
| 6  | 5   | TLS38  | 0.0        | 1.0     | 0.0     | 0.317 | 0.5   | 1.0   | 0.386 | 0.0   | 0.0   | 85.1          | 91.1 | 138.8          | -68.5 | 60.0        | 37.7 | 66.2       | 20.3  | 0.303       | 0.303 | 0.425         | 0.747 | 0.229 | 0.372             | 1.0   | 0.371 | 0.633  | 1.0   | 0.422                                                                               |    |
| 7  | 5   | TLS38  | 0.0        | 1.0     | 0.5     | 0.397 | 0.5   | 1.0   | 0.466 | 0.0   | 0.0   | 86.5          | 66.2 | 167.8          | -64.6 | 14.0        | 40.8 | 69.0       | 58.7  | 0.242       | 0.242 | 0.461         | 0.779 | 0.662 | -0.45             | 1.018 | 0.778 | 0.553  | 1.019 | 0.784                                                                               |    |
| 8  | 5   | TLS38  | 0.0        | 1.0     | 1.0     | 0.478 | 0.5   | 1.0   | 0.547 | 0.0   | 0.0   | 87.9          | 41.2 | 196.8          | -39.3 | -11.8       | 51.8 | 71.9       | 94.9  | 0.237       | 0.237 | 0.585         | 0.812 | 1.071 | 0.373             | 1.0   | 1.0   | 0.634  | 1.0   | 1.0                                                                                 |    |
| 9  | 5   | TLS38  | 0.5        | 0.0     | 0.0     | 0.008 | 0.25  | 0.5   | 0.079 | 0.5   | 0.0   | 29.4          | 33.3 | 28.5           | 29.2  | 15.9        | 8.6  | 6.0        | 3.3   | 0.482       | 0.482 | 0.098         | 0.068 | 0.037 | 0.477             | 0.202 | 0.193 | 0.42   | 0.214 | 0.207                                                                               |    |
| 10 | 5   | TLS38  | 0.5        | 0.0     | 0.5     | 0.842 | 0.25  | 0.5   | 0.91  | 0.5   | 0.0   | 31.9          | 45.0 | 327.6          | 38.0  | -24.0       | 11.1 | 7.0        | 16.5  | 0.32        | 0.32  | 0.125         | 0.079 | 0.186 | 0.474             | 0.207 | 0.47  | 0.417  | 0.218 | 0.46                                                                                |    |
| 11 | 5   | TLS38  | 0.5        | 0.0     | 1.0     | 0.803 | 0.5   | 1.0   | 0.872 | 0.0   | 0.0   | 55.2          | 89.4 | 314.0          | 62.1  | -64.2       | 38.2 | 23.1       | 89.0  | 0.254       | 0.254 | 0.431         | 0.261 | 1.005 | 0.731             | 0.371 | 1.014 | 0.648  | 0.372 | 0.998                                                                               |    |
| 12 | 5   | TLS38  | 0.5        | 0.5     | 0.0     | 0.219 | 0.25  | 0.5   | 0.29  | 0.5   | 0.0   | 46.5          | 36.5 | 104.3          | -9.0  | 35.4        | 13.4 | 15.6       | 5.2   | 0.392       | 0.392 | 0.151         | 0.176 | 0.058 | 0.473             | 0.469 | 0.203 | 0.469  | 0.466 | 0.232                                                                               |    |
| 13 | 5   | TLS38  | 0.5        | 0.5     | 0.5     | 0.0   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   | 66.7          | 0.0  | 0.0            | 0.0   | 0.0         | 34.4 | 36.2       | 39.5  | 0.313       | 0.313 | 0.389         | 0.409 | 0.445 | 0.672             | 0.672 | 0.672 | 0.666  | 0.666 | 0.666                                                                               |    |
| 14 | 5   | TLS38  | 0.5        | 0.5     | 1.0     | 0.764 | 0.75  | 0.5   | 0.834 | 0.0   | 0.5   | 71.0          | 44.4 | 300.4          | 22.5  | -38.2       | 47.8 | 42.2       | 90.9  | 0.264       | 0.264 | 0.539         | 0.477 | 1.026 | 0.738             | 0.676 | 1.008 | 0.715  | 0.67  | 0.997                                                                               |    |
| 15 | 5   | TLS38  | 0.5        | 1.0     | 0.0     | 0.269 | 0.5   | 1.0   | 0.338 | 0.0   | 0.0   | 89.0          | 82.1 | 121.6          | -42.9 | 70.0        | 52.3 | 74.3       | 18.7  | 0.36        | 0.36  | 0.591         | 0.838 | 0.211 | 0.748             | 1.004 | 0.323 | 0.827  | 1.004 | 0.386                                                                               |    |
| 16 | 5   | TLS38  | 0.5        | 1.0     | 0.5     | 0.317 | 0.75  | 0.5   | 0.386 | 0.0   | 0.5   | 90.3          | 45.6 | 138.8          | -34.2 | 30.0        | 57.9 | 76.9       | 48.9  | 0.315       | 0.315 | 0.653         | 0.868 | 0.552 | 0.74              | 1.008 | 0.697 | 0.823  | 1.008 | 0.707                                                                               |    |
| 17 | 5   | TLS38  | 0.5        | 1.0     | 1.0     | 0.478 | 0.75  | 0.5   | 0.547 | 0.0   | 0.5   | 91.7          | 20.6 | 196.8          | -19.6 | -5.8        | 66.7 | 80.0       | 95.7  | 0.275       | 0.275 | 0.753         | 0.902 | 1.08  | 0.745             | 1.004 | 1.0   | 0.825  | 1.004 | 1.0                                                                                 |    |
| 18 | 5   | TLS38  | 1.0        | 0.0     | 0.0     | 0.008 | 0.5   | 1.0   | 0.079 | 0.0   | 0.0   | 58.8          | 66.5 | 28.5           | 58.5  | 31.7        | 42.0 | 26.8       | 12.5  | 0.517       | 0.517 | 0.474         | 0.302 | 0.141 | 1.0               | 0.372 | 0.372 | 0.876  | 0.372 | 0.372                                                                               |    |
| 19 | 5   | TLS38  | 1.0        | 0.0     | 0.5     | 0.925 | 0.5   | 1.0   | 0.995 | 0.0   | 0.0   | 61.2          | 78.2 | 358.0          | 78.2  | -2.6        | 52.8 | 29.5       | 34.1  | 0.454       | 0.454 | 0.596         | 0.333 | 0.385 | 1.094             | 0.279 | 0.644 | 0.951  | 0.285 | 0.628                                                                               |    |
| 20 | 5   | TLS38  | 1.0        | 0.0     | 1.0     | 0.842 | 0.5   | 1.0   | 0.91  | 0.0   | 0.0   | 63.7          | 89.9 | 327.6          | 75.9  | -48.1       | 56.1 | 32.4       | 87.1  | 0.32        | 0.32  | 0.634         | 0.366 | 0.983 | 1.0               | 0.372 | 1.0   | 0.876  | 0.372 | 0.983                                                                               |    |
| 21 | 5   | TLS38  | 1.0        | 0.5     | 0.0     | 0.114 | 0.5   | 1.0   | 0.185 | 0.0   | 0.0   | 75.9          | 69.8 | 66.4           | 27.9  | 64.0        | 57.9 | 49.7       | 11.5  | 0.487       | 0.487 | 0.654         | 0.561 | 0.129 | 1.08              | 0.683 | 0.269 | 0.988  | 0.677 | 0.306                                                                               |    |
| 22 | 5   | TLS38  | 1.0        | 0.5     | 0.5     | 0.008 | 0.75  | 0.5   | 0.079 | 0.0   | 0.5   | 77.1          | 33.3 | 28.5           | 29.2  | 15.9        | 60.7 | 51.7       | 41.2  | 0.395       | 0.395 | 0.685         | 0.583 | 0.465 | 1.039             | 0.702 | 0.673 | 0.957  | 0.696 | 0.668                                                                               |    |
| 23 | 5   | TLS38  | 1.0        | 0.5     | 1.0     | 0.842 | 0.75  | 0.5   | 0.91  | 0.0   | 0.5   | 79.6          | 45.0 | 327.6          | 38.0  | -24.0       | 69.2 | 55.9       | 91.7  | 0.319       | 0.319 | 0.781         | 0.631 | 1.035 | 1.02              | 0.715 | 1.004 | 0.944  | 0.709 | 0.994                                                                               |   |
| 24 | 5   | TLS38  | 1.0        | 1.0     | 0.0     | 0.219 | 0.5   | 1.0   | 0.29  | 0.0   | 0.0   | 93.0          | 73.1 | 104.3          | -18.0 | 70.8        | 70.0 | 82.9       | 21.8  | 0.401       | 0.401 | 0.791         | 0.936 | 0.247 | 1.0               | 1.0   | 0.372 | 1.0    | 1.0   | 0.422                                                                               |  |
| 25 | 5   | TLS38  | 1.0        | 1.0     | 0.5     | 0.219 | 0.75  | 0.5   | 0.29  | 0.0   | 0.5   | 94.2          | 36.5 | 104.3          | -9.0  | 35.4        | 76.9 | 85.7       | 50.3  | 0.361       | 0.361 | 0.868         | 0.968 | 0.568 | 1.019             | 0.999 | 0.702 | 1.013  | 0.999 | 0.712                                                                               |  |
| 26 | 5   | TLS38  | 1.0        | 1.0     | 1.0     | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 95.4          | 0.0  | 0.0            | 0.0   | 0.0         | 84.2 | 88.6       | 96.5  | 0.313       | 0.313 | 0.95          | 1.0   | 1.089 | 1.0               | 1.0   | 1.0   | 1.0    | 1.0   | 1.0                                                                                 |  |



**%Gamut**  
 $u^*_{rel} = 43$   
**%Regularity**  
 $g^*_{H,rel} = 30$   
 $g^*_{C,rel} = 48$

| TLS50     |             |         |         |              |              |
|-----------|-------------|---------|---------|--------------|--------------|
|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_M$     | 65.53       | 45.06   | 20.98   | 49.7         | 25           |
| $Y_M$     | 93.3        | -15.6   | 56.27   | 58.4         | 106          |
| $L_M$     | 86.55       | -56.3   | 46.52   | 73.04        | 140          |
| $C_M$     | 88.94       | -33.18  | -10.23  | 34.73        | 197          |
| $V_M$     | 57.17       | 30.66   | -59.39  | 66.85        | 297          |
| $M_M$     | 69.22       | 60.95   | -39.56  | 72.67        | 327          |
| $N_M$     | 52.02       | 0.0     | 0.0     | 0.0          | 0            |
| $W_M$     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



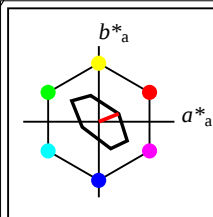
**%Gamut**  
 $u^*_{rel} = 43$   
**%Regularity**  
 $g^*_{H,rel} = 30$   
 $g^*_{C,rel} = 48$

| TLS50a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_{Ma}$                    | 65.53       | 45.06   | 20.98   | 49.7         | 25           |
| $Y_{Ma}$                    | 93.3        | -15.6   | 56.27   | 58.4         | 106          |
| $L_{Ma}$                    | 86.55       | -56.3   | 46.52   | 73.04        | 140          |
| $C_{Ma}$                    | 88.94       | -33.18  | -10.23  | 34.73        | 197          |
| $V_{Ma}$                    | 57.17       | 30.66   | -59.39  | 66.85        | 297          |
| $M_{Ma}$                    | 69.22       | 60.95   | -39.56  | 72.67        | 327          |
| $N_{Ma}$                    | 52.02       | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$                    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$                   | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$                   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$                   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$                   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

input:  $olv^*$  setrgbcolor  
output:  $olv^*$  (TRI9) setrgbcolor

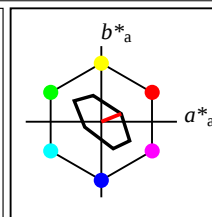
Data of 3x3x3=27 colors in colorimetric system TLS50; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| n  | no. | System | $\alpha^*_3$ | $l^*_3$ | $v^*_3$ | $e^*$ | $t^*$ | $c^*$ | $h^*$ | $n^*$ | $w^*$ | $LCH^*$ CIE |      | $a^*b^*$ CIE |       | $XYZ$ CIE |      | $xy$ CIE |       | $XYZ$ RGB |       | $RGB'$ sRGB |       |       | $RGB'$ AdobeRGB |       |       |       |       |                                                                                     |                                                                                       |
|----|-----|--------|--------------|---------|---------|-------|-------|-------|-------|-------|-------|-------------|------|--------------|-------|-----------|------|----------|-------|-----------|-------|-------------|-------|-------|-----------------|-------|-------|-------|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0  | 6   | TLS50  | 0.0          | 0.0     | 0.0     | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 52.0        | 0.0  | 0.0          | 0.0   | 19.2      | 20.2 | 22.0     | 0.313 | 0.313     | 0.216 | 0.228       | 0.248 | 0.514 | 0.514           | 0.514 | 0.51  | 0.51  | 0.51  |  |                                                                                       |
| 1  | 6   | TLS50  | 0.0          | 0.0     | 0.5     | 0.756 | 0.25  | 0.5   | 0.826 | 0.5   | 0.0   | 28.6        | 33.4 | 297.3        | 15.3  | −29.6     | 6.8  | 5.7      | 16.5  | 0.235     | 0.235 | 0.077       | 0.064 | 0.186 | 0.265           | 0.257 | 0.471 | 0.27  | 0.264 | 0.461                                                                               |    |
| 2  | 6   | TLS50  | 0.0          | 0.0     | 1.0     | 0.756 | 0.5   | 1.0   | 0.826 | 0.0   | 0.0   | 57.2        | 66.8 | 297.3        | 30.7  | −59.3     | 31.5 | 25.1     | 87.0  | 0.219     | 0.219 | 0.356       | 0.283 | 0.982 | 0.514           | 0.514 | 1.0   | 0.51  | 0.51  | 0.985                                                                               |    |
| 3  | 6   | TLS50  | 0.0          | 0.5     | 0.0     | 0.319 | 0.25  | 0.5   | 0.39  | 0.5   | 0.0   | 43.3        | 36.5 | 140.4        | −28.1 | 23.3      | 8.9  | 13.3     | 6.7   | 0.308     | 0.308 | 0.101       | 0.151 | 0.076 | 0.266           | 0.471 | 0.26  | 0.342 | 0.468 | 0.279                                                                               |    |
| 4  | 6   | TLS50  | 0.0          | 0.5     | 0.5     | 0.478 | 0.25  | 0.5   | 0.548 | 0.5   | 0.0   | 44.5        | 17.4 | 197.1        | −16.5 | −5.0      | 11.1 | 14.2     | 17.8  | 0.257     | 0.257 | 0.125       | 0.16  | 0.201 | 0.268           | 0.47  | 0.469 | 0.343 | 0.467 | 0.466                                                                               |    |
| 5  | 6   | TLS50  | 0.0          | 0.5     | 1.0     | 0.617 | 0.5   | 1.0   | 0.687 | 0.0   | 0.0   | 73.1        | 50.8 | 247.2        | −19.6 | −46.7     | 36.7 | 45.2     | 109.5 | 0.192     | 0.192 | 0.415       | 0.511 | 1.236 | −0.746          | 0.802 | 1.093 | 0.398 | 0.797 | 1.086                                                                               |    |
| 6  | 6   | TLS50  | 0.0          | 1.0     | 0.0     | 0.319 | 0.5   | 1.0   | 0.39  | 0.0   | 0.0   | 86.6        | 73.0 | 140.4        | −56.2 | 46.5      | 43.6 | 69.1     | 30.1  | 0.305     | 0.305 | 0.493       | 0.78  | 0.34  | 0.515           | 1.0   | 0.514 | 0.694 | 1.0   | 0.541                                                                               |    |
| 7  | 6   | TLS50  | 0.0          | 1.0     | 0.5     | 0.4   | 0.5   | 1.0   | 0.469 | 0.0   | 0.0   | 87.7        | 53.9 | 168.8        | −52.8 | 10.5      | 46.6 | 71.5     | 65.0  | 0.255     | 0.255 | 0.526       | 0.807 | 0.734 | 0.346           | 1.015 | 0.821 | 0.632 | 1.016 | 0.826                                                                               |    |
| 8  | 6   | TLS50  | 0.0          | 1.0     | 1.0     | 0.478 | 0.5   | 1.0   | 0.548 | 0.0   | 0.0   | 88.9        | 34.7 | 197.1        | −33.1 | −10.1     | 56.0 | 74.0     | 95.1  | 0.249     | 0.249 | 0.632       | 0.836 | 1.073 | 0.515           | 1.0   | 1.0   | 0.694 | 1.0   | 1.0                                                                                 |    |
| 9  | 6   | TLS50  | 0.5          | 0.0     | 0.0     | 1.0   | 0.25  | 0.5   | 0.069 | 0.5   | 0.0   | 32.8        | 24.9 | 25.0         | 22.5  | 10.5      | 9.6  | 7.4      | 5.4   | 0.427     | 0.427 | 0.108       | 0.084 | 0.061 | 0.474           | 0.26  | 0.257 | 0.425 | 0.267 | 0.265                                                                               |    |
| 10 | 6   | TLS50  | 0.5          | 0.0     | 0.5     | 0.839 | 0.25  | 0.5   | 0.908 | 0.5   | 0.0   | 34.6        | 36.3 | 327.0        | 30.5  | −19.7     | 11.7 | 8.3      | 16.7  | 0.319     | 0.319 | 0.132       | 0.094 | 0.188 | 0.472           | 0.262 | 0.47  | 0.424 | 0.269 | 0.461                                                                               |    |
| 11 | 6   | TLS50  | 0.5          | 0.0     | 1.0     | 0.797 | 0.5   | 1.0   | 0.867 | 0.0   | 0.0   | 63.2        | 69.8 | 312.2        | 46.8  | −51.6     | 44.5 | 31.8     | 90.8  | 0.266     | 0.266 | 0.502       | 0.359 | 1.025 | 0.776           | 0.517 | 1.017 | 0.708 | 0.512 | 1.002                                                                               |    |
| 12 | 6   | TLS50  | 0.5          | 0.5     | 0.0     | 0.225 | 0.25  | 0.5   | 0.293 | 0.5   | 0.0   | 46.6        | 29.2 | 105.5        | −7.7  | 28.1      | 13.7 | 15.8     | 6.9   | 0.377     | 0.377 | 0.155       | 0.178 | 0.078 | 0.472           | 0.469 | 0.26  | 0.468 | 0.466 | 0.279                                                                               |    |
| 13 | 6   | TLS50  | 0.5          | 0.5     | 0.5     | 0.0   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   | 73.7        | 0.0  | 0.0          | 0.0   | 0.0       | 44.0 | 46.3     | 50.4  | 0.313     | 0.313 | 0.496       | 0.522 | 0.569 | 0.75            | 0.75  | 0.75  | 0.744 | 0.744 | 0.744                                                                               |    |
| 14 | 6   | TLS50  | 0.5          | 0.5     | 1.0     | 0.756 | 0.75  | 0.5   | 0.826 | 0.0   | 0.5   | 76.3        | 33.4 | 297.3        | 15.3  | −29.6     | 53.6 | 50.4     | 91.6  | 0.274     | 0.274 | 0.605       | 0.568 | 1.034 | 0.781           | 0.75  | 1.005 | 0.767 | 0.745 | 0.996                                                                               |    |
| 15 | 6   | TLS50  | 0.5          | 1.0     | 0.0     | 0.272 | 0.5   | 1.0   | 0.342 | 0.0   | 0.0   | 89.9        | 65.7 | 123.0        | −35.7 | 55.1      | 56.7 | 76.1     | 28.2  | 0.352     | 0.352 | 0.64        | 0.859 | 0.318 | 0.793           | 1.003 | 0.481 | 0.856 | 1.003 | 0.513                                                                               |    |
| 16 | 6   | TLS50  | 0.5          | 1.0     | 0.5     | 0.319 | 0.75  | 0.5   | 0.39  | 0.0   | 0.5   | 91.0        | 36.5 | 140.4        | −28.1 | 23.3      | 61.7 | 78.4     | 57.0  | 0.313     | 0.313 | 0.697       | 0.885 | 0.643 | 0.783           | 1.006 | 0.76  | 0.85  | 1.006 | 0.767                                                                               |    |
| 17 | 6   | TLS50  | 0.5          | 1.0     | 1.0     | 0.478 | 0.75  | 0.5   | 0.548 | 0.0   | 0.5   | 92.2        | 17.4 | 197.1        | −16.5 | −5.0      | 69.1 | 81.1     | 95.8  | 0.281     | 0.281 | 0.78        | 0.915 | 1.081 | 0.787           | 1.003 | 1.0   | 0.852 | 1.003 | 1.0                                                                                 |    |
| 18 | 6   | TLS50  | 1.0          | 0.0     | 0.0     | 1.0   | 0.5   | 1.0   | 0.069 | 0.0   | 0.0   | 65.5        | 49.7 | 25.0         | 45.1  | 21.0      | 47.4 | 34.7     | 23.3  | 0.45      | 0.45  | 0.535       | 0.392 | 0.263 | 1.0             | 0.515 | 0.514 | 0.893 | 0.51  | 0.51                                                                                |    |
| 19 | 6   | TLS50  | 1.0          | 0.0     | 0.5     | 0.919 | 0.5   | 1.0   | 0.989 | 0.0   | 0.0   | 67.4        | 61.2 | 356.0        | 61.0  | −4.2      | 56.5 | 37.1     | 44.2  | 0.41      | 0.41  | 0.638       | 0.419 | 0.498 | 1.073           | 0.472 | 0.72  | 0.95  | 0.469 | 0.706                                                                               |   |
| 20 | 6   | TLS50  | 1.0          | 0.0     | 1.0     | 0.839 | 0.5   | 1.0   | 0.908 | 0.0   | 0.0   | 69.2        | 72.7 | 327.0        | 61.0  | −39.5     | 59.7 | 39.7     | 88.3  | 0.318     | 0.318 | 0.674       | 0.448 | 0.997 | 1.0             | 0.515 | 1.0   | 0.893 | 0.51  | 0.985                                                                               |  |
| 21 | 6   | TLS50  | 1.0          | 0.5     | 0.0     | 0.111 | 0.5   | 1.0   | 0.181 | 0.0   | 0.0   | 79.4        | 54.0 | 65.2         | 22.6  | 49.1      | 62.1 | 55.7     | 20.9  | 0.448     | 0.448 | 0.701       | 0.628 | 0.236 | 1.079           | 0.741 | 0.437 | 0.998 | 0.735 | 0.453                                                                               |  |
| 22 | 6   | TLS50  | 1.0          | 0.5     | 0.5     | 1.0   | 0.75  | 0.5   | 0.069 | 0.0   | 0.5   | 80.5        | 24.9 | 25.0         | 22.5  | 10.5      | 64.0 | 57.5     | 51.5  | 0.37      | 0.37  | 0.723       | 0.649 | 0.581 | 1.024           | 0.762 | 0.75  | 0.957 | 0.757 | 0.745                                                                               |  |
| 23 | 6   | TLS50  | 1.0          | 0.5     | 1.0     | 0.839 | 0.75  | 0.5   | 0.908 | 0.0   | 0.5   | 82.3        | 36.3 | 327.0        | 30.5  | −19.7     | 71.3 | 60.9     | 92.3  | 0.317     | 0.317 | 0.804       | 0.687 | 1.042 | 1.013           | 0.769 | 1.003 | 0.951 | 0.764 | 0.994                                                                               |  |
| 24 | 6   | TLS50  | 1.0          | 1.0     | 0.0     | 0.225 | 0.5   | 1.0   | 0.293 | 0.0   | 0.0   | 93.3        | 58.4 | 105.5        | −15.5 | 56.3      | 71.9 | 83.7     | 31.4  | 0.384     | 0.384 | 0.811       | 0.944 | 0.355 | 1.0             | 1.0   | 0.514 | 1.0   | 1.0   | 0.541                                                                               |  |
| 25 | 6   | TLS50  | 1.0          | 1.0     | 0.5     | 0.225 | 0.75  | 0.5   | 0.293 | 0.0   | 0.5   | 94.4        | 29.2 | 105.5        | −7.7  | 28.1      | 77.9 | 86.1     | 58.0  | 0.351     | 0.351 | 0.879       | 0.972 | 0.655 | 1.012           | 0.999 | 0.763 | 1.009 | 0.999 | 0.769                                                                               |  |
| 26 | 6   | TLS50  | 1.0          | 1.0     | 1.0     | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 95.4        | 0.0  | 0.0          | 0.0   | 0.0       | 84.2 | 88.6     | 96.5  | 0.313     | 0.313 | 0.95        | 1.0   | 1.089 | 1.0             | 1.0   | 1.0   | 1.0   | 1.0   | 1.0                                                                                 |  |



**%Gamut**  
 $u^*_{rel} = 16$   
**%Regularity**  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70     |             |         |         |              |              |
|-----------|-------------|---------|---------|--------------|--------------|
|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_M$     | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| $Y_M$     | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| $L_M$     | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| $C_M$     | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| $V_M$     | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| $M_M$     | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| $N_M$     | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| $W_M$     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$ | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$ | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$ | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



**%Gamut**  
 $u^*_{rel} = 16$   
**%Regularity**  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70a; adapted CIELAB data |             |         |         |              |              |
|-----------------------------|-------------|---------|---------|--------------|--------------|
|                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $O_{Ma}$                    | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| $Y_{Ma}$                    | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| $L_{Ma}$                    | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| $C_{Ma}$                    | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| $V_{Ma}$                    | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| $M_{Ma}$                    | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| $N_{Ma}$                    | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$                    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| $R_{CIE}$                   | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| $J_{CIE}$                   | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| $G_{CIE}$                   | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| $B_{CIE}$                   | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

Data of 3x3x3=27 colors in colorimetric system TLS70; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

| n  | no. | System | $o^*_3$ | $l^*_3$ | $v^*_3$ | $e^*$ | $t^*$ | $c^*$ | $h^*$ | $n^*$ | $w^*$ | $LCH^*_{CIE}$ |      | $a^*b^*_{CIE}$ |       | $XYZ_{CIE}$ |      | $xy_{CIE}$ |       | $XYZ_{RGB}$ |       | $RGB'_{sRGB}$ |       |       | $RGB'_{AdobeRGB}$ |       |       |       |       |       |                                                                                     |
|----|-----|--------|---------|---------|---------|-------|-------|-------|-------|-------|-------|---------------|------|----------------|-------|-------------|------|------------|-------|-------------|-------|---------------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------|
| 0  | 7   | TLS70  | 0.0     | 0.0     | 0.0     | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 69.7          | 0.0  | 0.0            | 0.0   | 0.0         | 38.3 | 40.3       | 43.9  | 0.313       | 0.313 | 0.433         | 0.455 | 0.496 | 0.705             | 0.705 | 0.705 | 0.699 | 0.699 | 0.699 |  |
| 1  | 7   | TLS70  | 0.0     | 0.0     | 0.5     | 0.747 | 0.25  | 0.5   | 0.816 | 0.5   | 0.0   | 36.1          | 19.5 | 293.9          | 7.9   | -17.7       | 9.5  | 9.0        | 16.9  | 0.268       | 0.268 | 0.107         | 0.102 | 0.191 | 0.343             | 0.341 | 0.47  | 0.344 | 0.343 | 0.463 |  |
| 2  | 7   | TLS70  | 0.0     | 0.0     | 1.0     | 0.747 | 0.5   | 1.0   | 0.816 | 0.0   | 0.0   | 72.1          | 39.0 | 293.9          | 15.8  | -35.5       | 47.0 | 43.8       | 89.8  | 0.26        | 0.26  | 0.531         | 0.494 | 1.013 | 0.705             | 0.705 | 1.0   | 0.699 | 0.699 | 0.99  |  |
| 3  | 7   | TLS70  | 0.0     | 0.5     | 0.0     | 0.325 | 0.25  | 0.5   | 0.395 | 0.5   | 0.0   | 44.7          | 22.6 | 142.3          | -17.8 | 13.8        | 11.0 | 14.3       | 10.2  | 0.31        | 0.31  | 0.124         | 0.161 | 0.115 | 0.343             | 0.47  | 0.341 | 0.385 | 0.467 | 0.35  |  |
| 4  | 7   | TLS70  | 0.0     | 0.5     | 0.5     | 0.481 | 0.25  | 0.5   | 0.55  | 0.5   | 0.0   | 45.5          | 11.5 | 197.9          | -10.9 | -3.4        | 12.5 | 14.9       | 17.9  | 0.275       | 0.275 | 0.141         | 0.168 | 0.202 | 0.344             | 0.47  | 0.469 | 0.385 | 0.467 | 0.466 |  |
| 5  | 7   | TLS70  | 0.0     | 0.5     | 1.0     | 0.614 | 0.5   | 1.0   | 0.683 | 0.0   | 0.0   | 81.5          | 31.0 | 245.9          | -12.6 | -28.2       | 51.5 | 59.4       | 103.2 | 0.241       | 0.241 | 0.581         | 0.671 | 1.165 | 0.559             | 0.877 | 1.054 | 0.664 | 0.874 | 1.049 |  |
| 6  | 7   | TLS70  | 0.0     | 1.0     | 0.0     | 0.325 | 0.5   | 1.0   | 0.395 | 0.0   | 0.0   | 89.3          | 45.2 | 142.3          | -35.7 | 27.6        | 55.6 | 74.8       | 49.7  | 0.309       | 0.309 | 0.628         | 0.845 | 0.561 | 0.705             | 1.0   | 0.705 | 0.799 | 1.0   | 0.715 |  |
| 7  | 7   | TLS70  | 0.0     | 1.0     | 0.5     | 0.403 | 0.5   | 1.0   | 0.473 | 0.0   | 0.0   | 90.1          | 34.2 | 170.1          | -33.5 | 5.9         | 57.9 | 76.6       | 75.6  | 0.276       | 0.276 | 0.653         | 0.864 | 0.853 | 0.636             | 1.01  | 0.887 | 0.763 | 1.011 | 0.889 |  |
| 8  | 7   | TLS70  | 0.0     | 1.0     | 1.0     | 0.481 | 0.5   | 1.0   | 0.55  | 0.0   | 0.0   | 90.9          | 23.1 | 197.9          | -21.9 | -7.0        | 64.3 | 78.3       | 95.5  | 0.27        | 0.27  | 0.726         | 0.884 | 1.078 | 0.705             | 1.0   | 1.0   | 0.799 | 1.0   | 1.0   |  |
| 9  | 7   | TLS70  | 0.5     | 0.0     | 0.0     | 0.992 | 0.25  | 0.5   | 0.061 | 0.5   | 0.0   | 38.2          | 14.2 | 21.9           | 13.1  | 5.3         | 11.4 | 10.2       | 9.3   | 0.369       | 0.369 | 0.129         | 0.115 | 0.105 | 0.471             | 0.342 | 0.341 | 0.437 | 0.344 | 0.343 |  |
| 10 | 7   | TLS70  | 0.5     | 0.0     | 0.5     | 0.836 | 0.25  | 0.5   | 0.906 | 0.5   | 0.0   | 39.3          | 22.6 | 326.1          | 18.8  | -12.5       | 12.9 | 10.8       | 17.1  | 0.316       | 0.316 | 0.146         | 0.122 | 0.193 | 0.471             | 0.342 | 0.47  | 0.437 | 0.344 | 0.462 |  |
| 11 | 7   | TLS70  | 0.5     | 0.0     | 1.0     | 0.792 | 0.5   | 1.0   | 0.861 | 0.0   | 0.0   | 75.3          | 42.1 | 310.0          | 27.0  | -32.2       | 56.6 | 48.8       | 92.9  | 0.285       | 0.285 | 0.638         | 0.55  | 1.048 | 0.854             | 0.707 | 1.014 | 0.811 | 0.701 | 1.004 |  |
| 12 | 7   | TLS70  | 0.5     | 0.5     | 0.0     | 0.228 | 0.25  | 0.5   | 0.298 | 0.5   | 0.0   | 47.0          | 18.1 | 107.3          | -5.3  | 17.3        | 14.3 | 16.0       | 10.3  | 0.352       | 0.352 | 0.162         | 0.181 | 0.117 | 0.471             | 0.47  | 0.342 | 0.467 | 0.466 | 0.35  |  |
| 13 | 7   | TLS70  | 0.5     | 0.5     | 0.5     | 0.0   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   | 82.6          | 0.0  | 0.0            | 0.0   | 0.0         | 58.3 | 61.3       | 66.8  | 0.313       | 0.313 | 0.658         | 0.692 | 0.754 | 0.85              | 0.85  | 0.85  | 0.846 | 0.846 | 0.846 |  |
| 14 | 7   | TLS70  | 0.5     | 0.5     | 1.0     | 0.747 | 0.75  | 0.5   | 0.816 | 0.0   | 0.5   | 83.8          | 19.5 | 293.9          | 7.9   | -17.7       | 63.8 | 63.6       | 93.1  | 0.289       | 0.289 | 0.72          | 0.718 | 1.051 | 0.858             | 0.85  | 1.002 | 0.852 | 0.846 | 0.996 |  |
| 15 | 7   | TLS70  | 0.5     | 1.0     | 0.0     | 0.278 | 0.5   | 1.0   | 0.347 | 0.0   | 0.0   | 91.6          | 40.8 | 124.8          | -23.2 | 33.5        | 65.1 | 79.9       | 47.9  | 0.337       | 0.337 | 0.734         | 0.901 | 0.541 | 0.867             | 1.001 | 0.686 | 0.905 | 1.001 | 0.697 |  |
| 16 | 7   | TLS70  | 0.5     | 1.0     | 0.5     | 0.325 | 0.75  | 0.5   | 0.395 | 0.0   | 0.5   | 92.4          | 22.6 | 142.3          | -17.8 | 13.8        | 68.9 | 81.5       | 70.5  | 0.312       | 0.312 | 0.778         | 0.92  | 0.796 | 0.859             | 1.002 | 0.853 | 0.9   | 1.002 | 0.855 |  |
| 17 | 7   | TLS70  | 0.5     | 1.0     | 1.0     | 0.481 | 0.75  | 0.5   | 0.55  | 0.0   | 0.5   | 93.2          | 11.5 | 197.9          | -10.9 | -3.4        | 73.8 | 83.4       | 96.0  | 0.292       | 0.292 | 0.833         | 0.941 | 1.083 | 0.861             | 1.001 | 1.0   | 0.901 | 1.001 | 1.0   |  |
| 18 | 7   | TLS70  | 1.0     | 0.0     | 0.0     | 0.992 | 0.5   | 1.0   | 0.061 | 0.0   | 0.0   | 76.4          | 28.3 | 21.9           | 26.3  | 10.6        | 58.2 | 50.6       | 44.8  | 0.379       | 0.379 | 0.657         | 0.571 | 0.506 | 1.0               | 0.705 | 0.705 | 0.926 | 0.699 | 0.699 |  |
| 19 | 7   | TLS70  | 1.0     | 0.0     | 0.5     | 0.914 | 0.5   | 1.0   | 0.983 | 0.0   | 0.0   | 77.5          | 36.8 | 354.0          | 36.6  | -3.7        | 64.5 | 52.3       | 61.1  | 0.363       | 0.363 | 0.728         | 0.59  | 0.69  | 1.046             | 0.688 | 0.826 | 0.961 | 0.682 | 0.817 |  |
| 20 | 7   | TLS70  | 1.0     | 0.0     | 1.0     | 0.836 | 0.5   | 1.0   | 0.906 | 0.0   | 0.0   | 78.5          | 45.2 | 326.1          | 37.5  | -25.1       | 66.9 | 54.1       | 90.7  | 0.316       | 0.316 | 0.756         | 0.61  | 1.024 | 1.0               | 0.705 | 1.0   | 0.926 | 0.699 | 0.99  |  |
| 21 | 7   | TLS70  | 1.0     | 0.5     | 0.0     | 0.111 | 0.5   | 1.0   | 0.179 | 0.0   | 0.0   | 85.2          | 32.3 | 64.6           | 13.9  | 29.2        | 69.3 | 66.4       | 41.7  | 0.391       | 0.391 | 0.782         | 0.749 | 0.471 | 1.062             | 0.836 | 0.657 | 1.005 | 0.832 | 0.659 |  |
| 22 | 7   | TLS70  | 1.0     | 0.5     | 0.5     | 0.992 | 0.75  | 0.5   | 0.061 | 0.0   | 0.5   | 85.9          | 14.2 | 21.9           | 13.1  | 5.3         | 70.4 | 67.8       | 67.4  | 0.342       | 0.342 | 0.795         | 0.766 | 0.761 | 1.009             | 0.853 | 0.85  | 0.967 | 0.849 | 0.846 |  |
| 23 | 7   | TLS70  | 1.0     | 0.5     | 1.0     | 0.836 | 0.75  | 0.5   | 0.906 | 0.0   | 0.5   | 87.0          | 22.6 | 326.1          | 18.8  | -12.5       | 75.2 | 69.9       | 93.6  | 0.315       | 0.315 | 0.849         | 0.789 | 1.056 | 1.005             | 0.855 | 1.001 | 0.965 | 0.851 | 0.995 |  |
| 24 | 7   | TLS70  | 1.0     | 1.0     | 0.0     | 0.228 | 0.5   | 1.0   | 0.298 | 0.0   | 0.0   | 93.9          | 36.3 | 107.3          | -10.7 | 34.6        | 75.5 | 85.1       | 50.6  | 0.357       | 0.357 | 0.852         | 0.961 | 0.571 | 1.0               | 1.0   | 0.705 | 1.0   | 1.0   | 0.715 |  |
| 25 | 7   | TLS70  | 1.0     | 1.0     | 0.5     | 0.228 | 0.75  | 0.5   | 0.298 | 0.0   | 0.5   | 94.7          | 18.1 | 107.3          | -5.3  | 17.3        | 79.8 | 86.8       | 71.1  | 0.336       | 0.336 | 0.9           | 0.98  | 0.802 | 1.005             | 1.0   | 0.853 | 1.004 | 1.0   | 0.856 |  |
| 26 | 7   | TLS70  | 1.0     | 1.0     | 1.0     | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 95.4          | 0.0  | 0.0            | 0.0   | 0.0         | 84.2 | 88.6       | 96.5  | 0.313       | 0.313 | 0.95          | 1.0   | 1.089 | 1.0               | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |  |