

Input: Colorimetric Television Luminous System TL500a

with rgb data of the  
four elementary bases

1 0 0 = Red  $R_p$

1 1 0 = Yellow  $Y_p$

0 1 0 = Green  $G_p$

0 0 1 = Blue  $B_p$



| TL500a; adapted (q) CIE1931 data |       |        |              |              |     |
|----------------------------------|-------|--------|--------------|--------------|-----|
| $L^*$                            | $a^*$ | $b^*$  | $C^*_{Muns}$ | $h^*_{Muns}$ |     |
| $D_{Red}$                        | 50.5  | 76.92  | 64.35        | 100.42       | 00  |
| $V_{Red}$                        | 92.66 | -20.69 | 90.75        | 93.08        | 001 |
| $L_{Red}$                        | 83.63 | -82.75 | 79.9         | 115.84       | 136 |
| $C_{Red}$                        | 86.88 | -66.16 | -13.55       | 48.13        | 196 |
| $V_{Red}$                        | 30.39 | 76.06  | -103.59      | 128.52       | 306 |
| $M_{Red}$                        | 57.3  | 94.35  | -58.41       | 110.97       | 128 |
| $N_{Red}$                        | 0.01  | 0.0    | 0.0          | 0.0          | 0   |
| $W_{Red}$                        | 95.41 | 0.0    | 0.0          | 0.0          | 0   |
| $R_{Red}$                        | 39.92 | 58.74  | 27.99        | 65.87        | 25  |
| $L_{Red}$                        | 81.26 | -2.88  | 71.56        | 71.62        | 92  |
| $C_{Red}$                        | 52.23 | -82.41 | 13.6         | 84.55        | 162 |
| $h_{Red}$                        | 30.57 | 1.41   | -65.46       | 65.49        | 272 |

Output: Colorimetric Television Luminous System TL500a

with base number

$n = 00$  to 19

00 = Red  $R_p$

05 = Yellow  $Y_p$

10 = Green  $G_p$

15 = Blue  $B_p$



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