

least square fit for color rendering

$$Lab_{i, \text{aim}}^* - Lab_{i, \text{gopt}}^* = \text{Min.}$$

color-differences $\Delta(Lab_i^*)$ for
CIE-test colors $i = 1$ to $17 \rightarrow \text{min.}$

$$\begin{pmatrix} L_{i, \text{gopt}}^* \\ a_{i, \text{gopt}}^* \\ b_{i, \text{gopt}}^* \end{pmatrix} = \begin{pmatrix} a_{11} & a_{21} & a_{31} \\ a_{12} & a_{22} & a_{32} \\ a_{13} & a_{23} & a_{33} \end{pmatrix} \times \begin{pmatrix} L_{i, \text{aim}}^* \\ a_{i, \text{aim}}^* \\ b_{i, \text{aim}}^* \end{pmatrix}$$

$$\sum_{i=1,17} [(\Delta L_i^*)^2 + (\Delta a_i^*)^2 + (\Delta b_i^*)^2]^{1/2} = \text{Min.}$$