

CIEBasedABC-color space

transformation $ABC^* \rightarrow XYZ$

CIELAB part 2: $LMN^* \rightarrow XYZ$

$$L = \text{Decode}L^* = \{3 \text{ exp}\}$$

$$M = \text{Decode}M^* = \{3 \text{ exp}\}$$

$$N = \text{Decode}N^* = \{3 \text{ exp}\}$$

$$\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} X_n & L \\ Y_n & M \\ Z_n & N \end{pmatrix}$$