

# CIELAB 1976 $L^*a^*b^*$ -color space and CIEBasedABC-transformation

$$X = X_n [ (L^* + 16) / 116 + a^*/500 ]^3$$

$$Y = Y_n [ (L^* + 16) / 116 ]^3$$

$$Z = Z_n [ (L^* + 16) / 116 - b^*/200 ]^3$$

$$A = \text{Decode}L^* = \{ 16 \text{ add } 116 \text{ div} \}$$

$$B = \text{Decode}a^* = \{ 500 \text{ div} \}$$

$$C = \text{Decode}b^* = \{ 200 \text{ div} \}$$