

Line element of *Stiles* (1946)

with „cone values” L , M , S

separate colour response functions

$$F(L) = i \ln(1+9L)$$

$$F(M) = j \ln(1+9M)$$

$$F(S) = k \ln(1+9S)$$

Taylor-derivations:

$$\begin{aligned} \Delta F(L, M, S) &= \frac{dF}{dL} \Delta L + \frac{dF}{dM} \Delta M + \frac{dF}{dS} \Delta S \\ &= \frac{9i}{1+9L} \Delta L + \frac{9j}{1+9M} \Delta M + \frac{9k}{1+9S} \Delta S \end{aligned}$$