

User friendly colorimetric colour notation icu^* or ice^* and linear relation to the relative rgb^* colour data

i^* relative brilliance

c^* relative chroma

u^* elementary (unique) hue text

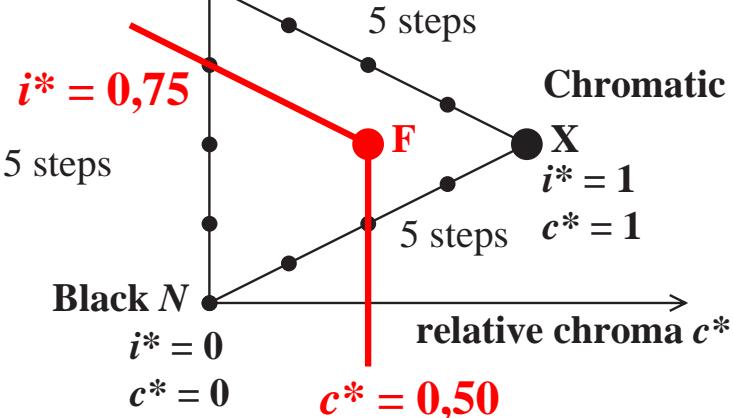
e^* elementary hue number

E^* elementary hue angle

$$i^* = 1$$

$$c^* = 0$$

White W



example for colour notation:

$$icu^* = 0,75 \ 0,50 \ R25J$$

or

$$ice^* = 0,75 \ 0,50 \ 0,0625 (=0,25/4)$$

*relative opponent (r^*_r, j^*_r) chroma*

$$u^*_{J00G} = J00G \Delta j^*_r$$

$$e^*_{J00G} = 0,25$$

$$u^*_{G00B} = G00B$$

$$e^*_{G00B} = 0,50$$

$$u^* = R25J$$

$$e^* = 0,0625$$

$$u^*_{R00J} = R00J$$

$$e^*_{R00J} = 0,00$$

$$r^*_{r00J}$$

$$u^*_{B00R} = B00R$$

$$e^*_{B00R} = 0,75$$

*relative trichromatic CIELAB (a^*_r, b^*_r) chroma*

$$rgb^*_{J00G} = 1\ 1\ 0$$

$$h_{ab,J} = 92 \text{ degree}$$

$$rgb^*_{X00B} = 1\ 0,25\ 0$$

$$h_{ab,X} = 42 \text{ degree}$$

$$= (25 + 0,25 \cdot 67) \text{ degree}$$

$$rgb^*_{G00R} = 0\ 1\ 0$$

$$h_{ab,G} = 162 \text{ degree}$$

$$rgb^*_{R00B} = 1\ 0\ 0$$

$$h_{ab,R} = 25 \text{ degree}$$

colour F:

$$rgb^* = 0,75\ 0,375\ 0,25$$

$$i^* = r^* = 0,75$$

$$c^* = r^* - b^* = 0,50$$

$$rgb^*_{B00J} = 0\ 0\ 1; \ h_{ab,B} = 272 \text{ degree}$$