

Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: ORS18

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

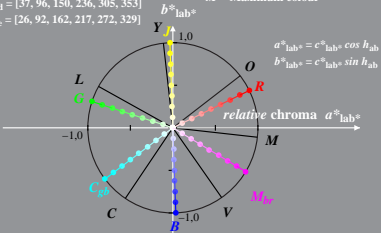
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [37, 96, 150, 236, 305, 353]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: TLS00

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

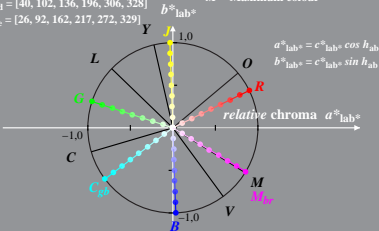
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [40, 102, 136, 196, 306, 328]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: FRS06

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

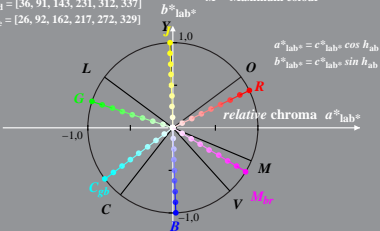
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [36, 91, 143, 231, 312, 337]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: TSL18

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

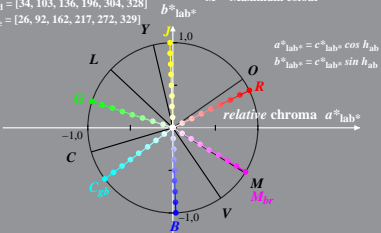
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [34, 103, 136, 196, 304, 328]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: NLS00

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

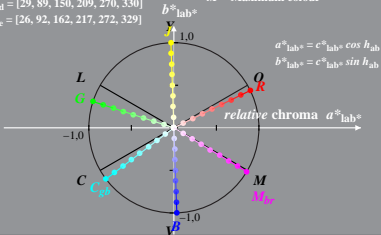
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [29, 89, 150, 209, 270, 330]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: NLS18

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

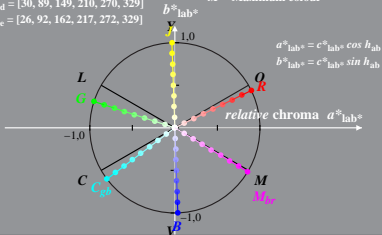
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [30, 89, 149, 210, 270, 329]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: SRS18

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

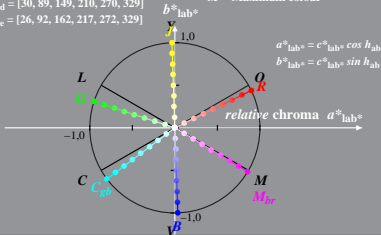
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [30, 89, 149, 210, 270, 329]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$



$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$b^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

Adapted (a) CIELAB ( $C^*_{ab,a}, L^*$ ) and relative CIELAB ( $c^*_{lab^*}, l^*_{lab^*}$ )

System: TLS70

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$  = Maximum colour

CIELAB hue angles:

$h_{ab,d} = [21, 107, 142, 197, 293, 326]$

$h_{ab,e} = [26, 92, 162, 217, 272, 329]$

$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$b^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

