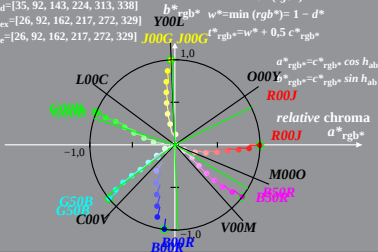


Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_00%\_O0  
 Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$   
 $h_{ab,d}=[35, 92, 143, 224, 313, 338]$   
 $h_{ab,ex}=[26, 92, 162, 217, 272, 329]$   
 $h_{ab,e}=[26, 92, 162, 217, 272, 329]$   
 $c^*_{rgb^*}=\max(rgb^*) - \min(rgb^*)$   
 $n^*=1 - \max(rgb^*)=1 - i^*$   
 $w^*=\min(rgb^*)=1 - d^*$   
 $t^*_{rgb^*}=w^* + 0,5 c^*_{rgb^*}$



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_00%\_O1  $c^*_{rgb^*} = \max(rgb^*) - \min(rgb^*)$

Result:  $c^*_{rgb^*} = c^*_{lab^*}$ ;  $t^*_{rgb^*} = t^*_{lab^*}$

$h_{ab,d} = [35, 92, 143, 224, 313, 338]$

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

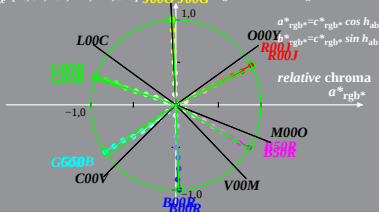
$h_{ab,e} = [26, 92, 162, 217, 272, 329]$

$b^*_{rgb^*}$   
 Y00L

J00G J00G

$w^* = \min(rgb^*) = 1 - d^*$

$t^*_{rgb^*} = w^* + 0,5 c^*_{rgb^*}$



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$

System: HE89\_FRS09\_92\_D65\_25%\_O0

Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

$h_{ab,ex}=[42, 109, 175, 230, 286, 343]$

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

$$c^*_{rgb^*} = \max(rgb^*) - \min(rgb^*)$$

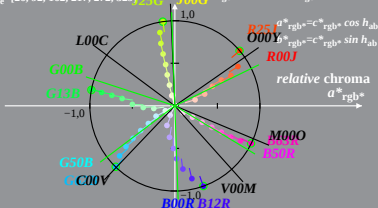
$$n^* = 1 - \max(rgb^*) = 1 - i^*$$

$$w^* = \min(rgb^*) = 1 - d^*$$

$$t^*_{rgb^*} = w^* + 0,5 c^*_{rgb^*}$$

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

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



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$

System: HE89\_FRS09\_92\_D65\_25%\_O1

Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

$h_{ab,ex}=[42, 109, 175, 230, 286, 343]$

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

$$c^*_{rgb^*} = \max(rgb^*) - \min(rgb^*)$$

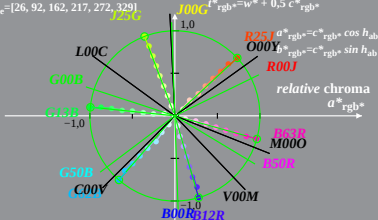
$$n^* = 1 - \max(rgb^*) = 1 - i^*$$

$$w^* = \min(rgb^*) = 1 - d^*$$

$$t^*_{rgb^*} = w^* + 0,5 c^*_{rgb^*}$$

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

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



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_50%\_O0

Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

$h_{ab,ex}=[59, 127, 189, 244, 300, 357]$

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

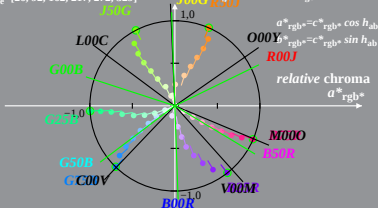
$b^*_{rgb^*}$   
Y00L

$c^*_{rgb^*}=\max(rgb^*)-\min(rgb^*)$

$n^*=1-\max(rgb^*)=1-i^*$

$w^*=\min(rgb^*)=1-d^*$

$t^*_{rgb^*}=w^*+0,5 c^*_{rgb^*}$



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_50%\_O1

Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

$h_{ab,ex}=[59, 127, 189, 244, 300, 357]$

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

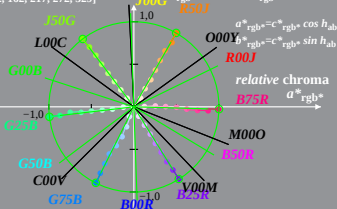
$b^*_{rgb^*}$   
 Y00L

$c^*_{rgb^*}=\max(rgb^*)-\min(rgb^*)$

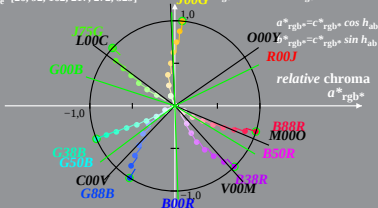
$n^*=1-\max(rgb^*)=1-i^*$

$w^*=\min(rgb^*)=1-d^*$

$t^*_{rgb^*}=w^*+0,5 c^*_{rgb^*}$



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_75%\_O0  
 Result:  $c^*_{rgb^*}=c^*_{lab^*}$ ;  $t^*_{rgb^*}=t^*_{lab^*}$   
 $h_{ab,d}=[35, 92, 143, 224, 313, 338]$   
 $h_{ab,ex}=[75, 144, 203, 258, 314, 371]$   
 $h_{ab,e}=[26, 92, 162, 217, 272, 329]$   
 $c^*_{rgb^*}=\max(rgb^*) - \min(rgb^*)$   
 $n^*=1 - \max(rgb^*)=1 - i^*$   
 $w^*=\min(rgb^*)=1 - d^*$   
 $t^*_{rgb^*}=w^* + 0,5 c^*_{rgb^*}$



Linear relation  $rgb^*$  and relative chroma  $c^*_{rgb^*}$  or chroma  $a^*_{rgb^*}$ ,  $b^*_{rgb^*}$   
 System: HE89\_FRS09\_92\_D65\_75%\_O1  $c^*_{rgb^*} = \max(rgb^*) - \min(rgb^*)$   
 Result:  $c^*_{rgb^*} = c^*_{lab^*}$ ;  $t^*_{rgb^*} = t^*_{lab^*}$   $n^* = 1 - \max(rgb^*) = 1 - i^*$   
 $h_{ab,d} = [35, 92, 143, 224, 313, 338]$   $b^*_{rgb^*}$   $w^* = \min(rgb^*) = 1 - d^*$   
 $h_{ab,ex} = [75, 144, 203, 258, 314, 371]$   $Y00L$   $i^*_{rgb^*} = w^* + 0,5 c^*_{rgb^*}$   
 $h_{ab,e} = [26, 92, 162, 217, 272, 329]$

