



### Input: Colorimetric Reflective System MRS18a

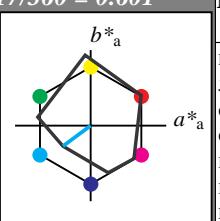
for hue  $h^* = lab^*h = 217/360 = 0.601$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G50B

LCH\*Ma: 45 46 217

rgb\*Ma: 0.0 1.0 1.0

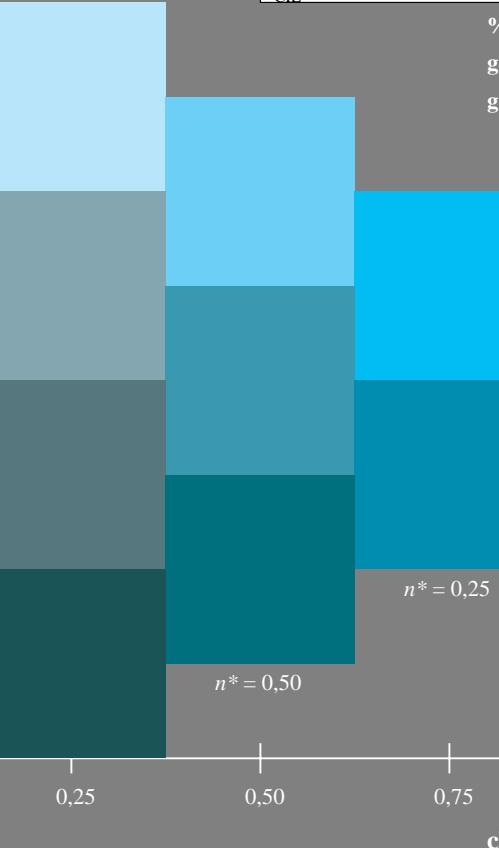
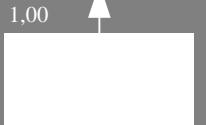
triangle lightness



%Gamut  
 $u^*_{rel} = 92$

### MRS18a; adapted (a) CIELAB data

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B Ma	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50R Ma	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



UE46-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

BAM-test chart UE46; Colorimetric systems MRS18a & ORS18 input:  $cmy0^* setcmykcolor$   
D65: 5 step colour scales and coordinate data for 10 hues  
output: no change compared to input

### Output: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 236/360 = 0.656$

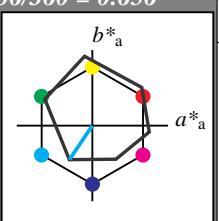
$lab^*tch$  and  $lab^*nch$

D65: hue C

LCH\*Ma: 59 54 236

rgb\*Ma: 0.0 1.0 1.0

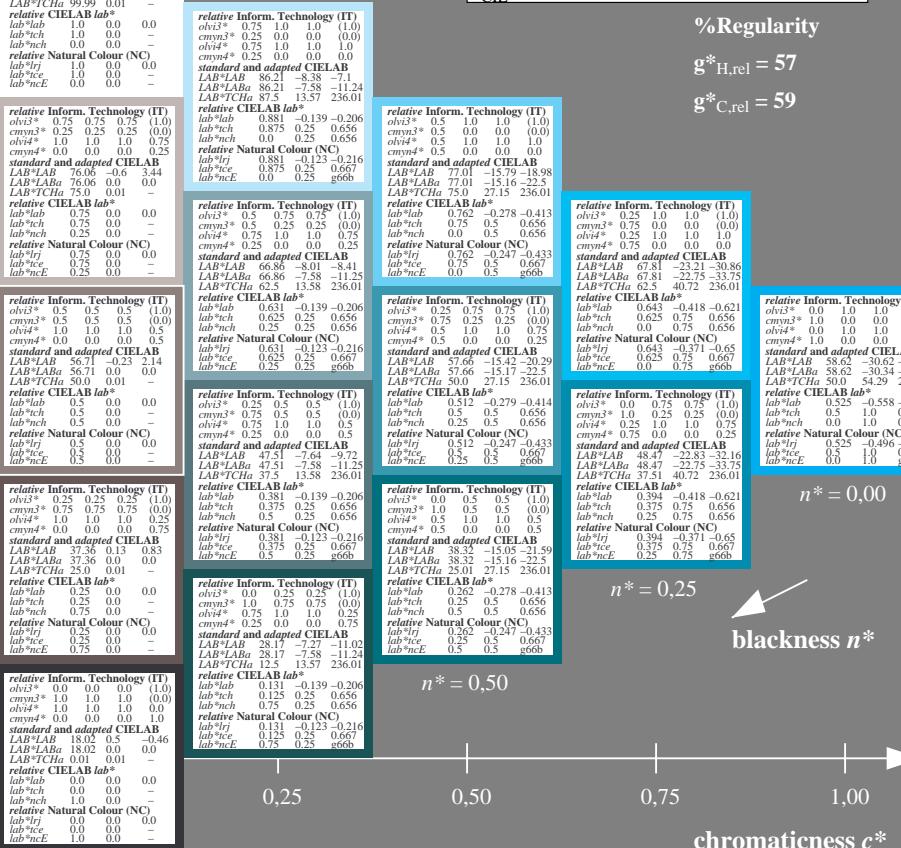
triangle lightness



%Gamut  
 $u^*_{rel} = 93$

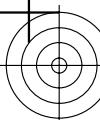
### %Regularity

$g^*_{H,rel} = 42$   
 $g^*_{C,rel} = 49$



5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

BAM-test chart UE46; Colorimetric systems MRS18a & ORS18 input:  $cmy0^* setcmykcolor$   
D65: 5 step colour scales and coordinate data for 10 hues  
output: no change compared to input



Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 290/360 = 0.807$  $lab^*tch$  and  $lab^*nch$ 

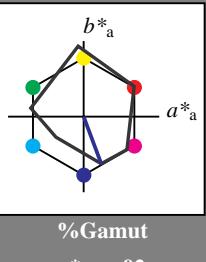
D65: hue B

LCH\*Ma: 37 66 290

rgb\*Ma: 0.0 0.0 1.0

triangle lightness

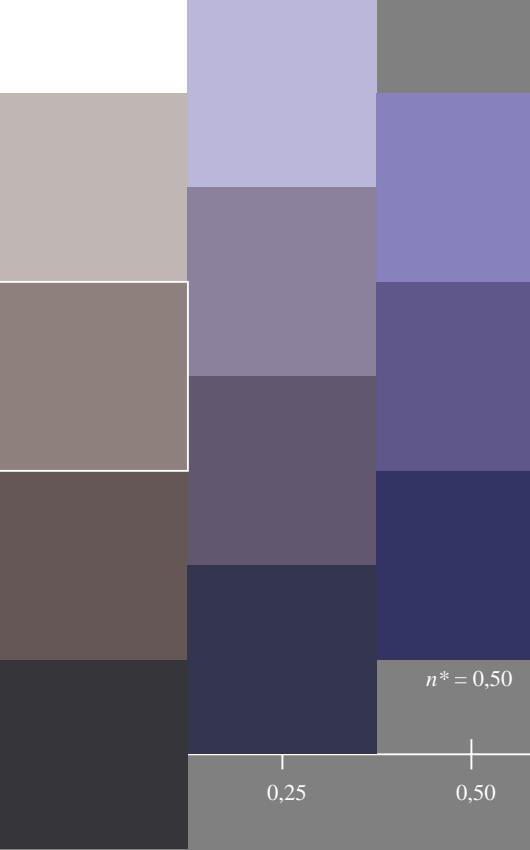
1,00



MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_{-a}$	$b^*_{-a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Gamut

 $u^*_{rel} = 92$ See for similar files: <http://www.ps.bam.de/UE46/> Version 2.1, io=0.0

%Regularity

 $g^*_{H,rel} = 42$  $g^*_{C,rel} = 49$  $n^* = 0,00$  $n^* = 0,25$ 

blackness  $n^*$

chromaticness  $c^*$ Technical information: <http://www.ps.bam.de>

Output: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 305/360 = 0.847$  $lab^*tch$  and  $lab^*nch$ 

D65: hue V

LCH\*Ma: 26 54 305

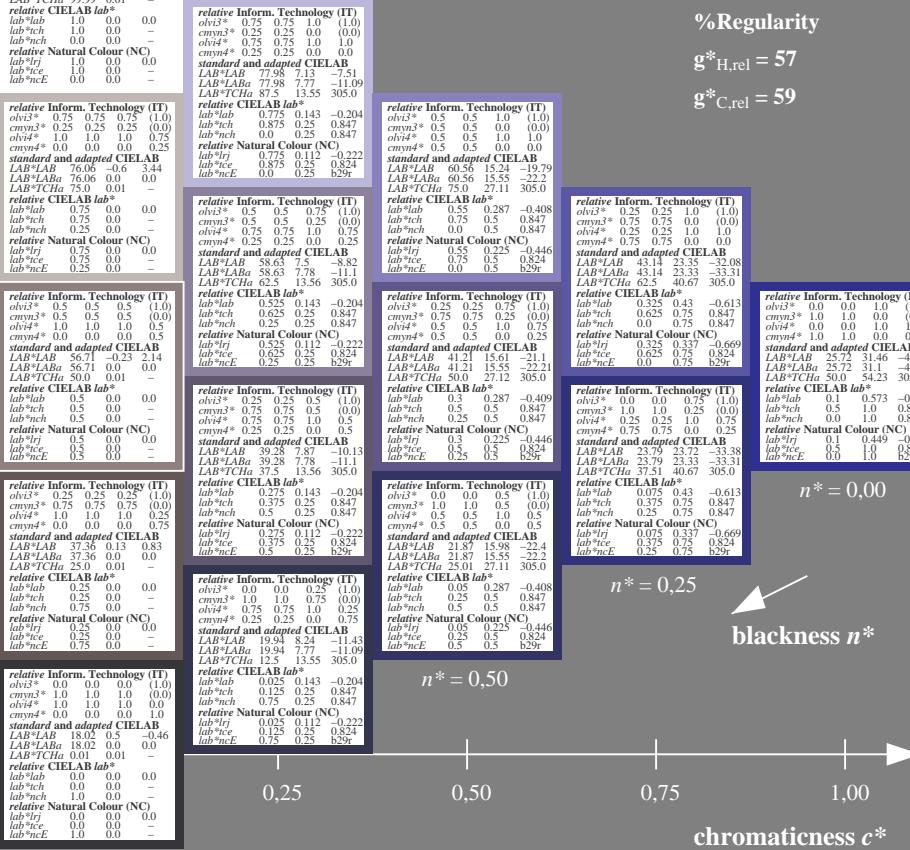
rgb\*Ma: 0.0 0.0 1.0

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 93$ 

%Regularity

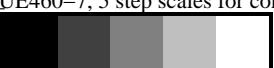
 $g^*_{H,rel} = 57$  $g^*_{C,rel} = 59$  $n^* = 0,00$  $n^* = 0,25$ 

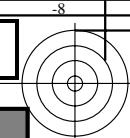
blackness  $n^*$

chromaticness  $c^*$ 

UE46-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart UE46; Colorimetric systems MRS18a & ORS18 input:  $cmy0^*$  setcmykcolor  
D65: 5 step colour scales and coordinate data for 10 hues  
output: no change compared to input



**Input: Colorimetric Reflective System MRS18a**  
for hue  $h^* = lab^*h = 323/360 = 0.896$

$lab^*tch$  and  $lab^*nch$

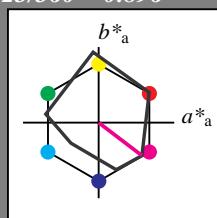
D65: hue B50R

LCH\*Ma: 35 72 323

rgb\*Ma: 1.0 0.0 1.0

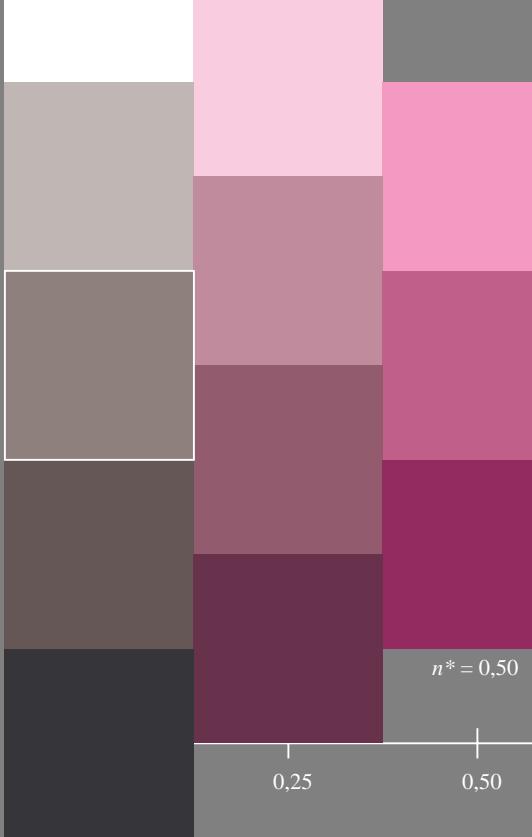
triangle lightness

1,00



**MRS18a; adapted (a) CIELAB data**

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



UE460-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

BAM-test chart UE46; Colorimetric systems MRS18a & ORS18 input:  $cmy0*$  setcmykcolor  
D65: 5 step colour scales and coordinate data for 10 hues

**Output: Colorimetric Reflective System ORS18**

for hue  $h^* = lab^*h = 354/360 = 0.982$

$lab^*tch$  and  $lab^*nch$

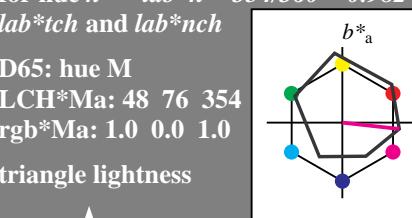
D65: hue M

LCH\*Ma: 48 76 354

rgb\*Ma: 1.0 0.0 1.0

triangle lightness

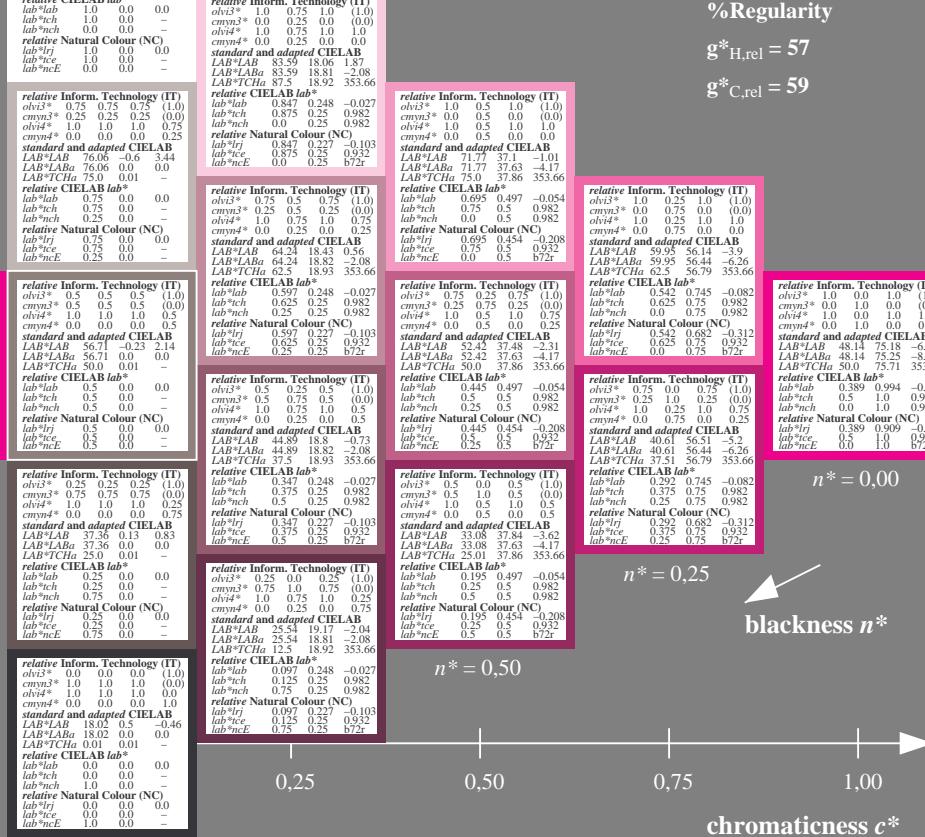
1,00



**%Regularity**

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$



5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

output: no change compared to input

See for similar files: <http://www.ps.bam.de/UE46/> Version 2.1, io=0.0



c

M

M

Y

O

L

V

V

L

O

C



**Input: Colorimetric Reflective System MRS18a**

for hue  $h^* = lab^*h = 25/360 = 0.071$

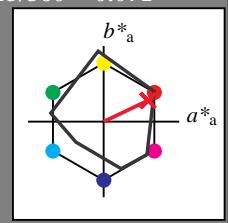
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 73 25

rgb\*Ma: 1.0 0.0 0.1

triangle lightness



**MRS18a; adapted (a) CIELAB data**

	$L^* = L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



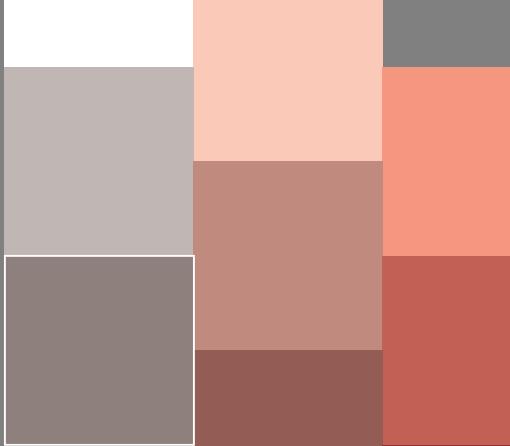
%Gamut

$u^*_{rel} = 92$

**%Regularity**

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$



$n^* = 0,00$

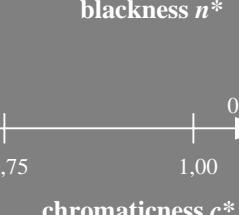
$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness  $n^*$



$n^* = 1,0$

UE460-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)



**Output: Colorimetric Reflective System ORS18**

for hue  $h^* = lab^*h = 25/360 = 0.069$

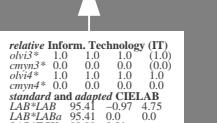
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 75 25

rgb\*Ma: 1.0 0.0 0.32

triangle lightness



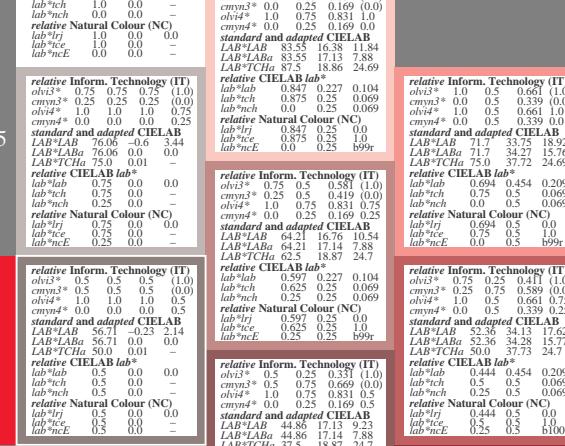
%Gamut

$u^*_{rel} = 93$

**%Regularity**

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$



$n^* = 0,00$

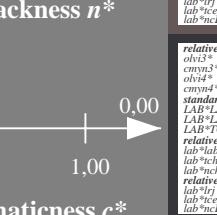
$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness  $n^*$



$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart UE46; Colorimetric systems MRS18a & ORS18 input:  $cmy0*$  setcmykcolor  
D65: 5 step colour scales and coordinate data for 10 hues

output: no change compared to input

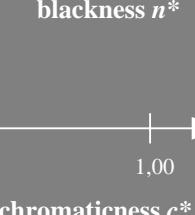
$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$



$n^* = 1,0$

Page: count: 7



### Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 92/360 = 0.256$

$lab^*tch$  and  $lab^*nch$

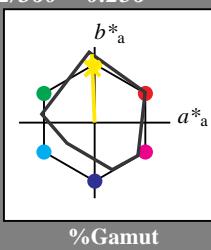
D65: hue J

LCH\*Ma: 89 91 92

rgb\*Ma: 1.0 0.95 0.0

triangle lightness

1,00



### MRS18a; adapted (a) CIELAB data

	$L^* = L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

### Output: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 92/360 = 0.255$

$lab^*tch$  and  $lab^*nch$

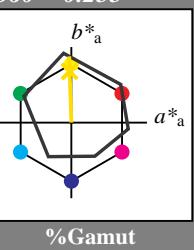
D65: hue J

LCH\*Ma: 86 88 92

rgb\*Ma: 1.0 0.9 0.0

triangle lightness

1,00



### %Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

-0,25

-0,50

-0,75

-1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness  $n^*$

chromaticness  $c^*$

### %Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness  $c^*$

