
Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

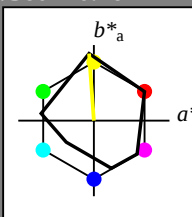
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 47.5
LAB*Lab 95.41 0.0 0.0
LAB*TCh 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 94.22 -2.54 26.86
LAB*Lab 94.22 -1.58 22.18
LAB*TCh 97.5 22.24 94.1

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*Lab 76.06 0.0 3.44
LAB*TCh 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.5 (1.0)
cmyn3* 0.25 0.25 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCh 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 2.14
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.35 -0.37 46.36
LAB*Lab 44.35 -0.37 46.36
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 2.14
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
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lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.0 0.0 0.0
LAB*Lab 50.0 0.0 0.0
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
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relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.37 46.36
LAB*Lab 37.36 0.0 46.36
LAB*TCh 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.0 0.0 0.0
LAB*Lab 25.0 0.0 0.0
LAB*TCh 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
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lab*nce 0.0 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCh 18.02 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
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olvi3* 0.25 0.25 0.0 (1.0)
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olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
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LAB*TCh 18.02 0.01 0.0

relative CIELAB lab*
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olvi3* 0.0 0.0 0.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
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LAB*TCh 18.02 0.01 0.0

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LAB*LAB 18.02 0.0 0.0
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LAB*TCh 18.02 0.01 0.0

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lab*nce 0.0 0.25 0.261

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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCh 18.02 0.01 0.0

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LAB*LAB 18.02 0.0 0.0
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LAB*LAB 18.02 0.0 0.0
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cmyn3* 0.0 0.0 0.0 (0.0)
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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCh 18.02 0.01 0.0

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.261
lab*nce 0.0 0.25 0.261

TE530-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

BAM-test chart TE53; Colorimetric systems MRS18 & NCS11a input: $olv^* setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 172/360 = 0.479$

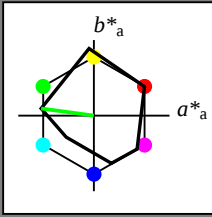
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

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

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	-0.97	47.5
LAB*LABa	95.41	0.0	0.0
LAB*LABb	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	1.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	1.0	0.75	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	84.58	-18.19	6.39
LAB*LABa	84.58	-17.42	2.36
LAB*LABb	97.5	-17.42	2.36

relative CIELAB lab*

lab*lab	0.86	-0.247	0.034
lab*tch	0.875	0.25	0.479
lab*nch	0.0	0.25	0.479

relative Natural Colour (NC)

lab*trj	0.86	-0.247	-0.028
lab*tce	0.875	0.25	0.518
lab*nce	0.0	0.25	0.479

relative Inform. Technology (IT)

olvi3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	73.75	-35.42	8.02
LAB*LABa	73.75	-34.85	4.72
LAB*LABb	75.0	-35.18	17.29

relative CIELAB lab*

lab*lab	0.72	-0.494	0.067
lab*tch	0.75	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*trj	0.72	-0.496	-0.056
lab*tce	0.75	0.5	0.518
lab*nce	0.0	0.5	0.479

relative Inform. Technology (IT)

olvi3*	0.25	1.0	0.25	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	62.93	-52.64	9.65
LAB*LABa	62.93	-52.28	7.08
LAB*LABb	62.5	-52.77	17.29

relative CIELAB lab*

lab*lab	0.58	-0.742	0.101
lab*tch	0.625	0.75	0.479
lab*nch	0.0	0.75	0.479

relative Natural Colour (NC)

lab*trj	0.58	-0.744	-0.085
lab*tce	0.625	0.75	0.518
lab*nce	0.0	0.75	0.479

relative Inform. Technology (IT)

olvi3*	0.0	1.0	0.0	(1.0)
cmyn3*	1.0	0.0	1.0	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	1.0	0.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	52.11	-69.86	11.28
LAB*LABa	52.11	-69.71	9.44
LAB*LABb	50.0	-70.36	17.29

relative CIELAB lab*

lab*lab	0.441	-0.99	0.134
lab*tch	0.5	1.0	0.479
lab*nch	0.0	1.0	0.479

relative Natural Colour (NC)

lab*trj	0.441	-0.992	-0.114
lab*tce	0.5	1.0	0.518
lab*nce	0.0	1.0	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.75	0.0	(1.0)
cmyn3*	0.75	0.25	0.75	(0.0)
olvi4*	0.0	0.75	0.0	(1.0)
cmyn4*	0.75	0.25	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	44.1	-35.05	6.71
LAB*LABa	44.1	-34.86	4.72
LAB*LABb	50.0	-35.19	17.29

relative CIELAB lab*

lab*lab	0.47	-0.494	0.067
lab*tch	0.5	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*trj	0.47	-0.496	-0.056
lab*tce	0.5	0.5	0.518
lab*nce	0.0	0.5	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.5	0.0	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.0	0.5	0.0	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	35.06	-34.67	5.41
LAB*LABa	35.06	-34.85	4.72
LAB*LABb	25.01	-35.18	17.29

relative CIELAB lab*

lab*lab	0.33	-0.742	0.101
lab*tch	0.375	0.75	0.479
lab*nch	0.0	0.75	0.479

relative Natural Colour (NC)

lab*trj	0.33	-0.744	-0.085
lab*tce	0.375	0.75	0.518
lab*nce	0.0	0.75	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.0	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.0	0.25	0.0	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	25.01	-35.18	17.29
LAB*LABa	25.01	-35.18	17.29
LAB*LABb	25.01	-35.18	17.29

relative CIELAB lab*

lab*lab	0.22	-0.494	0.067
lab*tch	0.25	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*trj	0.22	-0.496	-0.056
lab*tce	0.25	0.5	0.518
lab*nce	0.0	0.5	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.1	0.0	(1.0)
cmyn3*	0.1	0.0	0.1	(0.0)
olvi4*	0.0	0.1	0.0	(1.0)
cmyn4*	0.1	0.0	0.1	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	-18.02	0.0
LAB*LABa	18.02	-18.02	0.0
LAB*LABb	18.02	-18.02	0.0

relative CIELAB lab*

lab*lab	0.11	-0.247	0.034
lab*tch	0.125	0.25	0.479
lab*nch	0.0	0.25	0.479

relative Natural Colour (NC)

lab*trj	0.11	-0.247	-0.028
lab*tce	0.125	0.25	0.518
lab*nce	0.0	0.25	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	1.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.0
LAB*LABa	18.02	0.0	0.0
LAB*LABb	18.02	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	1.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	11.01	0.0	0.0
LAB*LABa	11.01	0.0	0.0
LAB*LABb	11.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	1.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	11.01	0.0	0.0
LAB*LABa	11.01	0.0	0.0
LAB*LABb	11.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab \cdot h = 167/360 = 0.465$

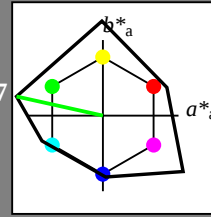
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



NCS11; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	-0.01	-0.01
LAB*LABa	95.41	0.0	0.0
LAB*LABb	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	1.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	1.0	0.75	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	87.32	-28.53	6.33
LAB*LABa	87.32	-28.55	6.33
LAB*LABb	97.5	-29.25	16.75

relative CIELAB lab*

lab*lab	0.94	-0.243	0.054
lab*tch	0.875	0.25	0.465
lab*nch	0.0	0.25	0.465

relative Natural Colour (NC)

lab*trj	0.94	-0.248	-0.018
lab*tce	0.875	0.25	0.512
lab*nce	0.0	0.25	0.465

relative Inform. Technology (IT)

olvi3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	79.24	-57.1	12.67
LAB*LABa	79.24	-57.12	12.67
LAB*LABb	75.0	-58.52	16.75

relative CIELAB lab*

lab*lab	0.808	-0.487	0.108
lab*tch	0.75	0.5	0.465
lab*nch	0.0	0.5	0.465

relative Natural Colour (NC)

lab*trj	0.808	-0.497	-0.037
lab*tce	0.75	0.5	0.512
lab*nce	0.0	0.5	0.465

<

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

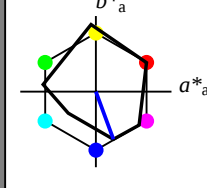
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.01
LAB*LABa 0.01 0.01 0.01
LAB*LABb 0.01 0.01 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*LABa 80.72 5.1 -11.98
LAB*LABb 80.72 5.1 -11.98

relative CIELAB lab*
lab*lab 0.81 0.06 -0.24
lab*tch 0.81 0.06 -0.24
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.81 0.06 -0.24
lab*tce 0.81 0.06 -0.24
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.37 5.47 -13.29
LAB*LABa 61.37 5.47 -13.29
LAB*LABb 61.37 5.47 -13.29

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 -31.51
LAB*LABa 27.34 11.92 -31.51
LAB*LABb 27.34 11.92 -31.51

relative CIELAB lab*
lab*lab 0.31 0.06 -0.234
lab*tch 0.31 0.06 -0.234
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.31 0.06 -0.234
lab*tce 0.31 0.06 -0.234
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 15.9 0.0 0.0
LAB*LABa 15.9 0.0 0.0
LAB*LABb 15.9 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.17 -28.74
LAB*LABa 66.03 11.17 -28.74
LAB*LABb 66.03 11.17 -28.74

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*tch 0.62 0.173 -0.468
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.62 0.173 -0.468
lab*tce 0.62 0.173 -0.468
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.25 -45.49
LAB*LABa 51.34 17.25 -45.49
LAB*LABb 51.34 17.25 -45.49

relative CIELAB lab*
lab*lab 0.431 0.193 -0.724
lab*tch 0.431 0.193 -0.724
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.431 0.193 -0.724
lab*tce 0.431 0.193 -0.724
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.05
LAB*LABa 36.65 23.18 -63.05
LAB*LABb 36.65 23.18 -63.05

relative CIELAB lab*
lab*lab 0.241 0.345 -0.937
lab*tch 0.241 0.345 -0.937
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.241 0.345 -0.937
lab*tce 0.241 0.345 -0.937
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LABa 37.36 -0.63 0.63
LAB*LABb 37.36 -0.63 0.63

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.05
LAB*LABa 36.65 23.18 -63.05
LAB*LABb 36.65 23.18 -63.05

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LABa 37.36 -0.63 0.63
LAB*LABb 37.36 -0.63 0.63

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*LABa 80.72 5.1 -11.98
LAB*LABb 80.72 5.1 -11.98

relative CIELAB lab*
lab*lab 0.81 0.06 -0.24
lab*tch 0.81 0.06 -0.24
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.81 0.06 -0.24
lab*tce 0.81 0.06 -0.24
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.37 5.47 -13.29
LAB*LABa 61.37 5.47 -13.29
LAB*LABb 61.37 5.47 -13.29

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 -31.51
LAB*LABa 27.34 11.92 -31.51
LAB*LABb 27.34 11.92 -31.51

relative CIELAB lab*
lab*lab 0.31 0.06 -0.234
lab*tch 0.31 0.06 -0.234
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.31 0.06 -0.234
lab*tce 0.31 0.06 -0.234
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -30.05
LAB*LABa 46.68 11.59 -30.05
LAB*LABb 46.68 11.59 -30.05

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

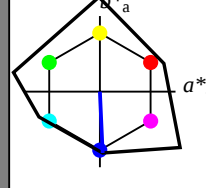
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92

Input: Colorimetric Reflective System MRS18

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

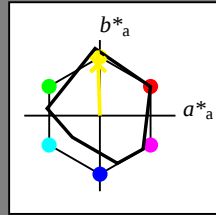
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

relative Inform. Technology (IT)
olvi3* 1.0 0.988 0.75 (1.0)
cmyn3* 0.0 0.012 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.72 -1.64 26.21
LAB*LABa 93.72 -0.69 21.57
LAB*TCHa 97.5 21.58 91.86

relative Inform. Technology (IT)
olvi3* 1.0 0.978 0.75 (1.0)
cmyn3* 0.0 0.024 0.25 (0.0)
olvi4* 1.0 0.978 0.75 (1.0)
cmyn4* 0.0 0.024 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 92.04 -2.3 47.67
LAB*LABa 92.04 -1.39 43.14
LAB*TCHa 97.5 43.16 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.963 0.75 (1.0)
cmyn3* 0.0 0.037 0.25 (0.0)
olvi4* 1.0 0.963 0.75 (1.0)
cmyn4* 0.0 0.037 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 90.36 -2.96 69.13
LAB*LABa 90.36 -2.08 64.71
LAB*TCHa 62.5 64.74 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.951 0.0 (1.0)
cmyn3* 0.0 0.049 1.0 (0.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.68 -3.62 90.58
LAB*LABa 88.68 -2.71 86.27
LAB*TCHa 50.0 86.32 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.933 0.0 (1.0)
cmyn3* 0.0 0.062 0.75 (0.0)
olvi4* 1.0 0.933 0.0 (1.0)
cmyn4* 0.0 0.062 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 86.25 0.75 100.0
LAB*LABa 86.25 0.75 100.0
LAB*TCHa 0.0 0.75 100.0

relative Inform. Technology (IT)
olvi3* 1.0 0.913 0.0 (1.0)
cmyn3* 0.0 0.085 0.0 (0.0)
olvi4* 1.0 0.913 0.0 (1.0)
cmyn4* 0.0 0.085 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 84.31 0.0 100.0
LAB*LABa 84.31 0.0 100.0
LAB*TCHa 0.0 0.0 100.0

relative Inform. Technology (IT)
olvi3* 1.0 0.893 0.0 (1.0)
cmyn3* 0.0 0.107 0.0 (0.0)
olvi4* 1.0 0.893 0.0 (1.0)
cmyn4* 0.0 0.107 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.42 0.0 100.0
LAB*LABa 82.42 0.0 100.0
LAB*TCHa 0.0 0.0 100.0

relative Inform. Technology (IT)
olvi3* 1.0 0.873 0.0 (1.0)
cmyn3* 0.0 0.129 0.0 (0.0)
olvi4* 1.0 0.873 0.0 (1.0)
cmyn4* 0.0 0.129 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.53 0.0 100.0
LAB*LABa 80.53 0.0 100.0
LAB*TCHa 0.0 0.0 100.0

relative Inform. Technology (IT)
olvi3* 1.0 0.853 0.0 (1.0)
cmyn3* 0.0 0.151 0.0 (0.0)
olvi4* 1.0 0.853 0.0 (1.0)
cmyn4* 0.0 0.151 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 78.64 0.0 100.0
LAB*LABa 78.64 0.0 100.0
LAB*TCHa 0.0 0.0 100.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 3.44
LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.75 0.726 0.25 (1.0)
cmyn3* 0.25 0.274 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.38 -1.26 24.91
LAB*LABa 74.38 -0.68 21.57
LAB*TCHa 62.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.706 0.25 (1.0)
cmyn3* 0.25 0.294 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 72.7 -1.92 46.37
LAB*LABa 72.7 -1.38 43.14
LAB*TCHa 50.0 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.686 0.25 (1.0)
cmyn3* 0.25 0.314 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.02 -2.59 67.82
LAB*LABa 71.02 -2.07 64.7
LAB*TCHa 37.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.666 0.25 (1.0)
cmyn3* 0.25 0.334 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 69.13 -3.25 69.13
LAB*LABa 69.13 -2.33 64.7
LAB*TCHa 25.0 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.646 0.25 (1.0)
cmyn3* 0.25 0.354 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 67.24 -3.91 69.13
LAB*LABa 67.24 -2.99 64.7
LAB*TCHa 12.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.626 0.25 (1.0)
cmyn3* 0.25 0.374 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 65.35 -4.58 69.13
LAB*LABa 65.35 -3.66 64.7
LAB*TCHa 0.0 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.606 0.25 (1.0)
cmyn3* 0.25 0.394 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 63.46 -5.25 69.13
LAB*LABa 63.46 -4.33 64.7
LAB*TCHa 0.0 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.586 0.25 (1.0)
cmyn3* 0.25 0.414 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 61.57 -5.92 69.13
LAB*LABa 61.57 -5.0 64.7
LAB*TCHa 0.0 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.566 0.25 (1.0)
cmyn3* 0.25 0.434 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 59.68 -6.59 69.13
LAB*LABa 59.68 -5.67 64.7
LAB*TCHa 0.0 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 2.14
LAB*TCHa 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.5 0.488 0.25 (1.0)
cmyn3* 0.5 0.512 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 55.03 -0.89 3.16
LAB*LABa 55.03 -0.68 21.57
LAB*TCHa 37.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.468 0.25 (1.0)
cmyn3* 0.5 0.532 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 53.15 -1.52 45.05
LAB*LABa 53.15 -0.89 21.57
LAB*TCHa 25.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.448 0.25 (1.0)
cmyn3* 0.5 0.552 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 51.26 -2.19 45.05
LAB*LABa 51.26 -1.17 21.57
LAB*TCHa 12.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.428 0.25 (1.0)
cmyn3* 0.5 0.572 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.37 -2.86 45.05
LAB*LABa 49.37 -1.84 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.408 0.25 (1.0)
cmyn3* 0.5 0.592 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 47.48 -3.53 45.05
LAB*LABa 47.48 -2.51 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.388 0.25 (1.0)
cmyn3* 0.5 0.612 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 45.59 -4.20 45.05
LAB*LABa 45.59 -3.18 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.368 0.25 (1.0)
cmyn3* 0.5 0.632 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 43.70 -4.87 45.05
LAB*LABa 43.70 -3.85 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.348 0.25 (1.0)
cmyn3* 0.5 0.652 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 41.81 -5.54 45.05
LAB*LABa 41.81 -4.52 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.328 0.25 (1.0)
cmyn3* 0.5 0.672 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 39.92 -6.21 45.05
LAB*LABa 39.92 -5.19 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.01 -0.01 -
LAB*LABa 50.01 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.228 0.25 (1.0)
cmyn3* 0.75 0.772 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 48.12 -0.68 3.16
LAB*LABa 48.12 -0.47 21.57
LAB*TCHa 37.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.208 0.25 (1.0)
cmyn3* 0.75 0.792 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 46.23 -1.35 3.16
LAB*LABa 46.23 -0.89 21.57
LAB*TCHa 25.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.188 0.25 (1.0)
cmyn3* 0.75 0.812 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 44.34 -2.02 3.16
LAB*LABa 44.34 -1.17 21.57
LAB*TCHa 12.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.168 0.25 (1.0)
cmyn3* 0.75 0.832 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.45 -2.69 3.16
LAB*LABa 42.45 -1.84 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.148 0.25 (1.0)
cmyn3* 0.75 0.852 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 40.56 -3.36 3.16
LAB*LABa 40.56 -2.51 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.128 0.25 (1.0)
cmyn3* 0.75 0.872 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 38.67 -4.03 3.16
LAB*LABa 38.67 -3.18 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.108 0.25 (1.0)
cmyn3* 0.75 0.892 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 36.78 -4.70 3.16
LAB*LABa 36.78 -3.85 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.088 0.25 (1.0)
cmyn3* 0.75 0.912 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 34.89 -5.37 3.16
LAB*LABa 34.89 -4.52 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.068 0.25 (1.0)
cmyn3* 0.75 0.932 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 33.00 -6.04 3.16
LAB*LABa 33.00 -5.19 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 46.6
LAB*LABa 18.02 0.0 46.6
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.228 -0.007 0.25
cmyn3* 0.75 0.772 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 48.12 -0.68 3.16
LAB*LABa 48.12 -0.47 21.57
LAB*TCHa 37.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.208 -0.007 0.25
cmyn3* 0.75 0.792 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 46.23 -1.35 3.16
LAB*LABa 46.23 -0.89 21.57
LAB*TCHa 25.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.188 -0.007 0.25
cmyn3* 0.75 0.812 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 44.34 -2.02 3.16
LAB*LABa 44.34 -1.17 21.57
LAB*TCHa 12.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.168 -0.007 0.25
cmyn3* 0.75 0.832 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 42.45 -2.69 3.16
LAB*LABa 42.45 -1.84 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.148 -0.007 0.25
cmyn3* 0.75 0.852 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 40.56 -3.36 3.16
LAB*LABa 40.56 -2.51 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.128 -0.007 0.25
cmyn3* 0.75 0.872 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 38.67 -4.03 3.16
LAB*LABa 38.67 -3.18 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.108 -0.007 0.25
cmyn3* 0.75 0.892 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 36.78 -4.70 3.16
LAB*LABa 36.78 -3.85 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.088 -0.007 0.25
cmyn3* 0.75 0.912 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 34.89 -5.37 3.16
LAB*LABa 34.89 -4.52 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.068 -0.007 0.25
cmyn3* 0.75 0.932 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 33.00 -6.04 3.16
LAB*LABa 33.00 -5.19 21.57
LAB*TCHa 0.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 46.6
LAB*LABa 18.02 0.0 46.6
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.228 -0.007 0.25
cmyn3* 0.75 0.772 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 48.12 -0.68 3.16
LAB*LABa 48.12 -0.47 21.57
LAB*TCHa 37.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.208 -0.007 0.25
cmyn3* 0.75 0.792 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 46.23 -1.35 3.16
LAB*LABa 46.23 -0.89 21.57
LAB*TCHa 25.0 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.188 -0.007 0.25
cmyn3* 0.75 0.812 0.25 0.25
olvi4* 1.0 0.988 0.75 0.75
cmyn4* 0.0 0.012 0.25 0.25
standard and adapted CIELAB
LAB*LAB 44.34 -2.02 3.1

