

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

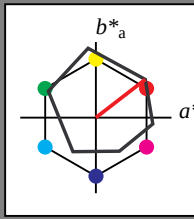
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.98	47.5	
LAB*LABa	95.41	0.0	0.0	
LAB*LABb	99.99	0.01	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	83.54	15.58	16.58	
LAB*LABa	83.54	16.34	12.62	
LAB*LABb	97.5	20.65	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	71.67	32.15	28.41	
LAB*LABa	71.67	32.69	25.25	
LAB*LABb	75.0	41.31	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.25	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	59.8	48.73	40.24	
LAB*LABa	59.8	49.03	37.88	
LAB*LABb	62.5	61.96	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	47.94	65.3	52.06	
LAB*LABa	47.94	65.37	50.51	
LAB*LABb	50.0	82.61	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.51	61.96	37.69	
LAB*LABa	37.51	61.96	37.69	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	25.0	0.0	0.0	
LAB*LABa	25.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	12.5	0.0	0.0	
LAB*LABa	12.5	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.06	-0.61	3.44	
LAB*LABa	76.06	0.0	0.0	
LAB*LABb	75.0	0.01	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	64.19	15.96	15.28	
LAB*LABa	64.19	16.35	12.63	
LAB*LABb	62.5	20.66	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	52.33	32.53	27.11	
LAB*LABa	52.33	32.69	25.26	
LAB*LABb	50.0	41.31	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	49.31	38.93	30.51	
LAB*LABa	49.31	39.03	37.88	
LAB*LABb	50.0	41.31	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	47.94	65.3	52.06	
LAB*LABa	47.94	65.37	50.51	
LAB*LABb	50.0	82.61	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.51	61.96	37.69	
LAB*LABa	37.51	61.96	37.69	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	25.0	0.0	0.0	
LAB*LABa	25.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	12.5	0.0	0.0	
LAB*LABa	12.5	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	56.71	-0.24	2.14	
LAB*LABa	56.71	0.0	0.0	
LAB*LABb	55.0	0.01	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
cmyn3*	0.5	0.25	0.25	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	44.83	16.33	13.97	
LAB*LABa	44.83	16.34	12.63	
LAB*LABb	42.5	20.66	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	44.83	16.33	13.97	
LAB*LABa	44.83	16.34	12.63	
LAB*LABb	42.5	20.66	37.69	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.51	61.96	37.69	
LAB*LABa	37.51	61.96	37.69	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	25.0	0.0	0.0	
LAB*LABa	25.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	12.5	0.0	0.0	
LAB*LABa	12.5	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*LABb	0.0	0.0	0.0	
LAB*LABc	0.0	0.0	0.0	

LAB*LABa	56.71	67.02	38.69
LAB*TChA	50.0	77.38	30.0
relative CIELAB lab*			
lab*lab	0.5	0.866	0.5
lab*tch	0.5	1.0	0.083
lab*nch	0.0	1.0	0.083
relative Natural Colour (NC)			
lab*lrj	0.5	0.994	0.106
lab*tce	0.5	1.0	0.017
lab*nch	0.0	1.0	0.067

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

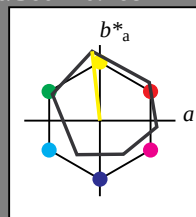
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

ol v^* Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6

relative CIELAB lab*

lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
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LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative Inform. Technology (IT)

ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6

relative CIELAB lab*

lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248
lab*lab	0.984	-0.027	0.248

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497
lab*lab	0.967	-0.055	0.497

relative Inform. Technology (IT)

ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)
ol v^*	1.0	1.0	0.5	(1.0)
ol v^*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46
LAB*LAB	92.88	-6.06	50.46

relative Inform. Technology (IT)

ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)
ol v^*	1.0	1.0	1.0	(1.0)
ol v^*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6
LAB*LAB	94.14	-3.52	27.6

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	92.88	-6.06	50.46
LAB*LABa	92.88	-5.12	45.87
LAB*TCa	75.0	46.15	96.38

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

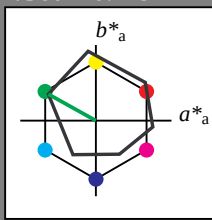
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.856 -0.217 0.121
lab*tch 0.875 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.856 -0.238 0.072
lab*tce 0.875 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.636 -0.217 0.122
lab*tch 0.625 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.636 -0.238 0.072
lab*tce 0.625 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.356 -0.217 0.122
lab*tch 0.375 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.356 -0.238 0.072
lab*tce 0.375 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.106 -0.217 0.121
lab*tch 0.125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

OE520-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

Output: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 150/360 = 0.417$

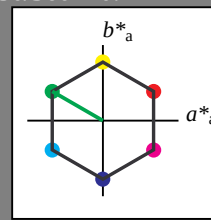
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 57 77 150

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



SRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 100$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.875 -0.215 0.125
lab*tch 0.875 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.875 -0.24 0.068
lab*tce 0.875 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.70 0.0 0.0
LAB*LABa 56.70 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.625 -0.216 0.125
lab*tch 0.625 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.625 -0.24 0.068
lab*tce 0.625 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.375 -0.216 0.125
lab*tch 0.375 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.375 -0.24 0.068
lab*tce 0.375 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.0 0.0
LAB*LABa 0.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0125 -0.216 0.125
lab*tch 0.0125 0.25 0.417
lab*nch 0.0 0.25 0.417
relative Natural Colour (NC)
lab*lrj 0.0125 -0.24 0.068
lab*tce 0.0125 0.25 0.456
lab*nce 0.0 0.25 0.417

5 step scales for constant CIELAB hue 150/360 = 0.417 (right)

BAM-test chart OE52; Colorimetric systems ORS18 & SRS18

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

input: $cmv0^* setcmykcolor$

output: no change compared to input

The diagram shows a 4-strand DNA structure. It consists of four horizontal lines representing DNA strands. The top two strands are black, and the bottom two strands are black. A green rectangular region labeled 'L' is located in the center, spanning the two top strands. A blue rectangular region labeled 'V' is located on the right side, spanning the two bottom strands. Arrows on the top and bottom strands point to the right, indicating the direction of the DNA sequence.

C	M	Y	O	L	V
---	---	---	---	---	---

Input: Colorimetric Offset Reflective System ORS18

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

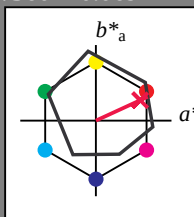
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv5*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.661	(1.0)
olv3*	0.0	0.5	0.339	(0.0)
olv4*	1.0	0.5	0.661	(1.0)
olv4*	0.0	0.5	0.339	(0.0)
olv5*	1.0	0.5	0.661	(1.0)
olv5*	0.0	0.5	0.339	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.492	(1.0)
olv3*	0.0	0.25	0.508	(0.0)
olv4*	1.0	0.25	0.492	(1.0)
olv4*	0.0	0.25	0.508	(0.0)
olv5*	1.0	0.25	0.492	(1.0)
olv5*	0.0	0.25	0.508	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.322	(1.0)
olv3*	0.0	0.0	0.678	(0.0)
olv4*	1.0	0.0	0.322	(1.0)
olv4*	0.0	0.0	0.678	(0.0)
olv5*	1.0	0.0	0.322	(1.0)
olv5*	0.0	0.0	0.678	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.322	(1.0)
olv3*	0.0	0.0	0.678	(0.0)
olv4*	1.0	0.0	0.322	(1.0)
olv4*	0.0	0.0	0.678	(0.0)
olv5*	1.0	0.0	0.322	(1.0)
olv5*	0.0	0.0	0.678	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.589	(1.0)
olv3*	0.25	0.5	0.411	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv5*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.411	(1.0)
olv3*	0.25	0.75	0.589	(0.0)
olv4*	1.0	0.5	0.661	(1.0)
olv4*	0.0	0.5	0.339	(0.0)
olv5*	1.0	0.5	0.661	(1.0)
olv5*	0.0	0.5	0.339	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.375	(1.0)
olv3*	0.25	0.75	0.625	(0.0)
olv4*	1.0	0.5	0.625	(1.0)
olv4*	0.0	0.5	0.375	(0.0)
olv5*	1.0	0.5	0.625	(1.0)
olv5*	0.0	0.5	0.375	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.375	(1.0)
olv3*	0.25	0.75	0.625	(0.0)
olv4*	1.0	0.5	0.625	(1.0)
olv4*	0.0	0.5	0.375	(0.0)
olv5*	1.0	0.5	0.625	(1.0)
olv5*	0.0	0.5	0.375	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.5	0.625	(1.0)
olv3*	0.75	0.5	0.375	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv5*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.5	0.625	(1.0)
olv3*	0.75	0.5	0.375	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv5*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	
LAB*LAB	56.71	-0.98	47.5	

systems ORS18

r scales for 10 l

Y	
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Input: Colorimetric Offset Reflective System ORS18

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

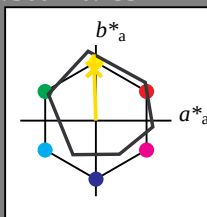
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.41	-0.98	47.5
LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	0.0	0.0
LAB*Lab	76.06	0.0	0.0

relative CIELAB lab*

lab*lab	0.97	0.0	0.25
lab*lab	0.875	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.97	0.0	0.25
lab*trj	0.875	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.625	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.75	0.0	0.0
lab*trj	0.625	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.375	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.375	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*lab	0.125	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.25	0.0	0.0
lab*trj	0.125	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*lab	0.125	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.25	0.0	0.0
lab*trj	0.125	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	-0.24	2.14
LAB*Lab	56.71	0.0	0.0
LAB*Lab	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

Output: Colorimetric Standard Reflective System SRS18

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

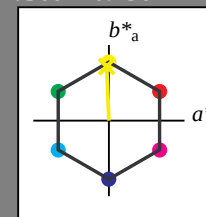
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 76 92

olv*Ma: 0.95 1.0 0.0

triangle lightness t^*



SRS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 100$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.41	-0.98	47.5
LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	76.07	-0.61	3.44
LAB*Lab	76.07	0.0	0.0
LAB*Lab	76.07	0.0	0.0

relative CIELAB lab*

lab*lab	0.97	0.0	0.25
lab*lab	0.875	0.25	0.25
lab*lab	0.0	0.25	0.25

relative Natural Colour (NC)

lab*trj	0.97	0.0	0.25
lab*trj	0.875	0.25	0.25
lab*trj	0.0	0.25	0.25

relative Inform. Technology (IT)

olv3*	0.75	0.
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Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

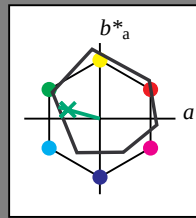
lab^*ch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCMa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lrce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCMa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.862 -0.249 0.0
lab*lrce 0.875 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.75 0.75 0.75 (1.0)
lab*lrce 0.75 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.457
lab*lrce 0.25 0.25 0.457
lab*nce 0.0 0.25 0.457

OE520-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

Output: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

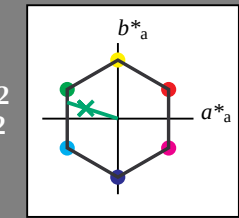
lab^*ch and lab^*nch

D65: hue G

LCH*Ma: 57 70 162

olv*Ma: 0.0 1.0 0.22

triangle lightness t^*



SRS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 100$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCMa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lrce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCMa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.75 0.75 0.75 (1.0)
lab*lrce 0.75 0.25 0.451
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.75 0.75 0.75 (1.0)
lab*lrce 0.75 0.25 0.451
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.451
lab*lrce 0.25 0.25 0.451
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
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LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
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lab*ch 0.25 0.25 0.451
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lab*ch 0.25 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.451
lab*lrce 0.25 0.25 0.451
lab*nce 0.0 0.25 0.451

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart OE52; Colorimetric systems ORS18 & SRS18

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

input: $cmY0^* setcmykcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

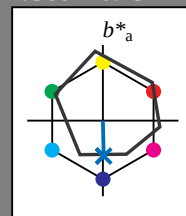
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

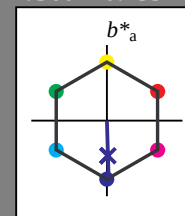
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

olv*Ma: 0.03 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 100$

SRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 100$

$g^*_{C,rel} = 100$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

OE520-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart OE52; Colorimetric systems ORS18 & SRS18

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

input: $cmY0^* set cmykcolor$

output: no change compared to input