

Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 30/360 = 0.083$

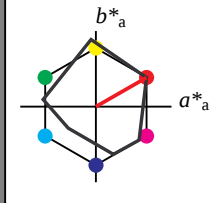
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 91$

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)
LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCRa	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)	1.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*trc	1.0	0.0	0.0	
lab*trc	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCRa	75.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.75	0.0	0.0	
lab*trj	0.75	0.0	0.0	
lab*trc	0.75	0.0	0.0	
lab*trc	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCRa	50.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*ch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.5	0.0	0.0	
lab*trj	0.5	0.0	0.0	
lab*trc	0.5	0.0	0.0	
lab*trc	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	37.36	-0.13	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*TCRa	25.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.25	0.0	0.0	
lab*trj	0.25	0.0	0.0	
lab*trc	0.25	0.0	0.0	
lab*trc	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
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lab*trc	0.0	0.0	0.0	

MRS18; adaptierte CIELAB-Daten

$L^*=L^*_a$ 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

%Regularität

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

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

%Umfang

$u^*_{rel} = 91$

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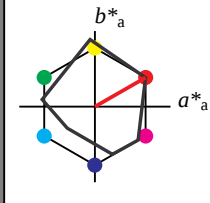
lab^*ch und lab^*nch

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LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



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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

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%Umfang

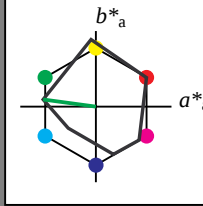
Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 172/360 = 0.479$

lab^*ch und lab^*nch

D65: Buntton G
LCH*Ma: 52 70 172
rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit 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 4.75
LAB*ABa 95.41 0.0 0.0
LAB*TCha 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*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*ncc 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*ABa 76.06 0.0 0.0
LAB*TCha 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 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*trc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
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relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
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lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (0.5)
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standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.83
LAB*ABa 37.36 0.0 0.0
LAB*TCha 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
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relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*ABa 18.02 0.0 0.0
LAB*TCha 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

MRS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	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
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%Regularität

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

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

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olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.75 -35.42 8.02
LAB*ABa 73.75 -34.85 4.72
LAB*TCha 75.0 35.18 172.29

relative CIELAB lab*
lab*lab 0.72 -0.494 0.067
lab*ch 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*trc 0.75 0.5 0.518
lab*ncc 0.0 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 54.41 -35.05 6.71
LAB*ABa 54.41 -34.86 4.72
LAB*TCha 50.0 35.19 172.29

relative CIELAB lab*
lab*lab 0.61 -0.494 0.067
lab*ch 0.625 0.5 0.479
lab*nch 0.25 0.5 0.479
relative Natural Colour (NC)
lab*trj 0.61 -0.496 -0.056
lab*trc 0.625 0.5 0.518
lab*ncc 0.25 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 35.06 -34.85 4.72
LAB*ABa 35.06 -34.85 4.72
LAB*TCha 25.01 35.18 172.29

relative CIELAB lab*
lab*lab 0.22 -0.494 0.067
lab*ch 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*trc 0.25 0.5 0.518
lab*ncc 0.0 0.5 0.676

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
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$n^* = 1.0$

relative Buntheit c^*

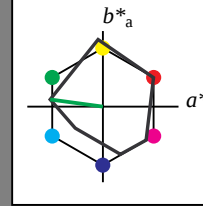
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lab^*ch und lab^*nch

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Dreiecks-Helligkeit t^*



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olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.83
LAB*ABa 37.36 0.0 0.0
LAB*TCha 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 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*trc 0.25 0.0 0.0
lab*ncc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*ABa 18.02 0.0 0.0
LAB*TCha 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

relative Buntheit c^*

MRS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	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

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.75 -35.42 8.02
LAB*ABa 73.75 -34.85 4.72
LAB*TCha 75.0 35.18 172.29

relative CIELAB lab*
lab*lab 0.72 -0.494 0.067
lab*ch 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*trc 0.75 0.5 0.518
lab*ncc 0.0 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 54.41 -35.05 6.71
LAB*ABa 54.41 -34.86 4.72
LAB*TCha 50.0 35.19 172.29

relative CIELAB lab*
lab*lab 0.61 -0.494 0.067
lab*ch 0.625 0.5 0.479
lab*nch 0.25 0.5 0.479
relative Natural Colour (NC)
lab*trj 0.61 -0.496 -0.056
lab*trc 0.625 0.5 0.518
lab*ncc 0.25 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 35.06 -34.85 4.72
LAB*ABa 35.06 -34.85 4.72
LAB*TCha 25.01 35.18 172.29

relative CIELAB lab*
lab*lab 0.22 -0.494 0.067
lab*ch 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*trc 0.25 0.5 0.518
lab*ncc 0.0 0.5 0.676

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*ABa 18.02 0.0 0.0
LAB*TCha 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

relative Buntheit c^*

UG540-7, 5 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (links)

5 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (rechts)

BAM-Prüfvorlage UG54; Farbmetrik-Systeme MRS18 & MRS18input: cmy0* setcmykcolor

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: no change compared to input

Seitenzahl 6

Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 25/360 = 0.069$

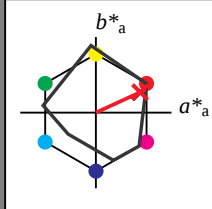
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

Dreiecks-Helligkeit 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)
LAB*LAB 95.41 -0.97 4.75
LAB*LAB 95.41 0.0 0.0
LAB*TCa 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*trj 1.0 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)
LAB*LAB 76.06 -0.6 3.44
LAB*LAB 76.06 0.0 0.0
LAB*TCa 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*nce 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)
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)
LAB*LAB 56.71 -0.23 2.14
LAB*LAB 56.71 0.0 0.0
LAB*TCa 50.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.5 0.5 (0.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
LAB*LAB 37.36 -0.83 0.63
LAB*LAB 37.36 0.0 0.0
LAB*TCa 25.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.25 0.25 (0.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*nce 0.25 0.25 0.25 (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)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*nce 0.0 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)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 0.0 (0.0)

MRS18; adaptierte CIELAB-Daten

	L*	a*	b*	C*	h*
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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 83.6 15.74 11.55
LAB*LAB 83.6 16.5 7.59
LAB*TCa 87.5 18.16 24.69

relative CIELAB lab*

lab*lab 0.847 0.227 0.104
lab*ch 0.875 0.25 0.069
lab*nch 0.0 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.847 0.25 0.104
lab*nce 0.875 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 64.26 16.12 10.25
LAB*LAB 64.26 16.5 7.59
LAB*TCa 62.5 18.16 24.7

relative CIELAB lab*

lab*lab 0.598 0.227 0.104
lab*ch 0.625 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.598 0.25 0.104
lab*nce 0.625 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 44.91 16.49 8.94
LAB*LAB 44.91 16.5 7.59
LAB*TCa 37.5 18.16 24.7

relative CIELAB lab*

lab*lab 0.348 0.227 0.104
lab*ch 0.375 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.348 0.25 0.104
lab*nce 0.375 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.25 0.5 0.5 (1.0)
cmyn3* 0.75 1.0 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 33.11 15.74 11.55
LAB*LAB 33.11 16.5 7.59
LAB*TCa 25.01 18.16 24.72

relative CIELAB lab*

lab*lab 0.098 0.227 0.104
lab*ch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.098 0.25 0.104
lab*nce 0.125 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.5 0.5 (1.0)
lab*ch 0.0 1.0 0.5 (0.0)
lab*nch 1.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.5 0.5 (1.0)
lab*nce 0.0 1.0 0.5 (0.0)

Ausgabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 25/360 = 0.069$

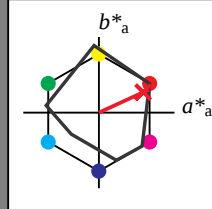
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

Dreiecks-Helligkeit 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)
LAB*LAB 95.41 -0.97 4.75
LAB*LAB 95.41 0.0 0.0
LAB*TCa 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*trj 1.0 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)
LAB*LAB 76.06 -0.6 3.44
LAB*LAB 76.06 0.0 0.0
LAB*TCa 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*nce 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)
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)
LAB*LAB 56.71 -0.23 2.14
LAB*LAB 56.71 0.0 0.0
LAB*TCa 50.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.5 0.5 (0.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
LAB*LAB 37.36 -0.83 0.63
LAB*LAB 37.36 0.0 0.0
LAB*TCa 25.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.25 0.25 (0.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*nce 0.25 0.25 0.25 (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)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*nce 0.0 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)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 0.0 (0.0)

MRS18; adaptierte CIELAB-Daten

	L*	a*	b*	C*	h*
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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 83.6 15.74 11.55
LAB*LAB 83.6 16.5 7.59
LAB*TCa 87.5 18.16 24.69

relative CIELAB lab*

lab*lab 0.847 0.227 0.104
lab*ch 0.875 0.25 0.069
lab*nch 0.0 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.847 0.25 0.104
lab*nce 0.875 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 64.26 16.12 10.25
LAB*LAB 64.26 16.5 7.59
LAB*TCa 62.5 18.16 24.7

relative CIELAB lab*

lab*lab 0.598 0.227 0.104
lab*ch 0.625 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.598 0.25 0.104
lab*nce 0.625 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 44.91 16.49 8.94
LAB*LAB 44.91 16.5 7.59
LAB*TCa 37.5 18.16 24.7

relative CIELAB lab*

lab*lab 0.348 0.227 0.104
lab*ch 0.375 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.348 0.25 0.104
lab*nce 0.375 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.25 0.5 0.5 (1.0)
cmyn3* 0.75 1.0 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 33.11 15.74 11.55
LAB*LAB 33.11 16.5 7.59
LAB*TCa 25.01 18.16 24.72

relative CIELAB lab*

lab*lab 0.098 0.227 0.104
lab*ch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.098 0.25 0.104
lab*nce 0.125 0.25 0.069

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
LAB*LAB 18.02 0.46 0.0
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.5 0.5 (1.0)
lab*ch 0.0 1.0 0.5 (0.0)
lab*nch 1.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.5 0.5 (1.0)
lab*nce 0.0 1.0 0.5 (0.0)

UG540-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

BAM-Prüfvorlage UG54; Farbmetrik-Systeme MRS18 & MRS18input: cmy0* setcmykcolor

D65: 2 Koordinaten-Daten von 25stufigen Farbreihen für 10 Bunttonen: no change compared to input

Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 92/360 = 0.255$

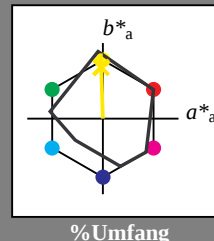
lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

Dreiecks-Helligkeit t^*



MRS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	0.0	0.0	0.0	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)
olvi75*	0.0	0.0	0.0	(0.0)
olvi76*	0.0	0.0	0.0	(0.0)
olvi77*	0.0	0.0	0.0	(0.0)
olvi78*	0.0	0.0	0.0	(0.0)
olvi79*	0.0	0.0	0.0	(0.0)
olvi80*	0.0	0.0	0.0	(0.0)
olvi81*	0.0	0.0	0.0	(0.0)
olvi82*	0.0	0.0	0.0	(0.0)
olvi83*	0.0	0.0	0.0	(0.0)
olvi84*	0.0	0.0	0.0	(0.0)
olvi85*	0.0	0.0	0.0	(0.0)
olvi86*	0.0	0.0	0.0	(0.0)
olvi87*	0.0	0.0	0.0	(0.0)
olvi88*	0.0	0.0	0.0	(0.0)
olvi89*	0.0	0.0	0.0	(0.0)
olvi90*	0.0	0.0	0.0	(0.0)
olvi91*	0.0	0.0	0.0	(0.0)
olvi92*	0.0	0.0	0.0	(0.0)
olvi93*	0.0	0.0	0.0	(0.0)
olvi94*	0.0	0.0	0.0	(0.0)
olvi95*	0.0	0.0	0.0	(0.0)
olvi96*	0.0	0.0	0.0	(0.0)
olvi97*	0.0	0.0	0.0	(0.0)
olvi98*	0.0	0.0	0.0	(0.0)
olvi99*	0.0	0.0	0.0	(0.0)
olvi100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.988	0.75	(1.0)
olvi4*	0.0	0.012	0.25	(0.0)
olvi5*	0.0	0.012	0.25	(0.0)
olvi6*	0.0	0.012	0.25	(0.0)
olvi7*	0.0	0.012	0.25	(0.0)
olvi8*	0.0	0.012	0.25	(0.0)
olvi9*	0.0	0.012	0.25	(0.0)
olvi10*	0.0	0.012	0.25	(0.0)
olvi11*	0.0	0.012	0.25	(0.0)
olvi12*	0.0	0.012	0.25	(0.0)
olvi13*	0.0	0.012	0.25	(0.0)
olvi14*	0.0	0.012	0.25	(0.0)
olvi15*	0.0	0.012	0.25	(0.0)
olvi16*	0.0	0.012	0.25	(0.0)
olvi17*	0.0	0.012	0.25	(0.0)
olvi18*	0.0	0.012	0.25	(0.0)
olvi19*	0.0	0.012	0.25	(0.0)
olvi20*	0.0	0.012	0.25	(0.0)
olvi21*	0.0	0.012	0.25	(0.0)
olvi22*	0.0	0.012	0.25	(0.0)
olvi23*	0.0	0.012	0.25	(0.0)
olvi24*	0.0	0.012	0.25	(0.0)
olvi25*	0.0	0.012	0.25	(0.0)
olvi26*	0.0	0.012	0.25	(0.0)
olvi27*	0.0	0.012	0.25	(0.0)
olvi28*	0.0	0.012	0.25	(0.0)
olvi29*	0.0	0.012	0.25	(0.0)
olvi30*	0.0	0.012	0.25	(0.0)
olvi31*	0.0	0.012	0.25	(0.0)
olvi32*	0.0	0.012	0.25	(0.0)
olvi33*	0.0	0.012	0.25	(0.0)
olvi34*	0.0	0.012	0.25	(0.0)
olvi35*	0.0	0.012	0.25	(0.0)
olvi36*	0.0	0.012	0.25	(0.0)
olvi37*	0.0	0.012	0.25	(0.0)
olvi38*	0.0	0.012	0.25	(0.0)
olvi39*	0.0	0.012	0.25	(0.0)
olvi40*	0.0	0.012	0.25	(0.0)
olvi41*	0.0	0.012	0.25	(0.0)
olvi42*	0.0	0.012	0.25	(0.0)
olvi43*	0.0	0.012	0.25	(0.0)
olvi44*	0.0	0.012	0.25	(0.0)
olvi45*	0.0	0.012	0.25	(0.0)
olvi46*	0.0	0.012	0.25	(0.0)
olvi47*	0.0	0.012	0.25	(0.0)
olvi48*	0.0	0.012	0.25	(0.0)
olvi49*	0.0	0.012	0.25	(0.0)
olvi50*	0.0	0.012	0.25	(0.0)
olvi51*	0.0	0.012	0.25	(0.0)
olvi52*	0.0	0.012	0.25	(0.0)
olvi53*	0.0	0.012	0.25	(0.0)
olvi54*	0.0	0.012	0.25	(0.0)
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olvi58*	0.0	0.012	0.25	(0.0)
olvi59*	0.0	0.012	0.25	(0.0)
olvi60*	0.0	0.012	0.25	(0.0)
olvi61*	0.0	0.012	0.25	(0.0)
olvi62*	0.0	0.012	0.25	(0.0)
olvi63*	0.0	0.012	0.25	(0.0)
olvi64*	0.0	0.012	0.25	(0.0)
olvi65*	0.0	0.012	0.25	(0.0)
olvi66*	0.0	0.012	0.25	(0.0)
olvi67*	0.0	0.012	0.25	(0.0)
olvi68*	0.0	0.012	0.25	(0.0)
olvi69*	0.0	0.012	0.25	(0.0)
olvi70*	0.0	0.012	0.25	(0.0)
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olvi74*	0.0	0.012	0.25	(0.0)
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olvi82*	0.0	0.012	0.25	(0.0)
olvi83*	0.0	0.012	0.25	(0.0)
olvi84*	0.0	0.012	0.25	(0.0)
olvi85*	0.0	0.012	0.25	(0.0)
olvi86*	0.0	0.012	0.25	(0.0)
olvi87*	0.0	0.012	0.25	(0.0)
olvi88*	0.0	0.012	0.25	(0.0)
olvi89*	0.0	0.012	0.25	(0.0)
olvi90*	0.0	0.012	0.25	(0.0)
olvi91*	0.0	0.012	0.25	(0.0)
olvi92*	0.0	0.012	0.25	(0.0)
olvi93*	0.0	0.012	0.25	(0.0)
olvi94*	0.0	0.012	0.25	(0.0)
olvi95*	0.0	0.012	0.25	(0.0)
olvi96*	0.0	0.012	0.25	(0.0)
olvi97*	0.0	0.012	0.25	(0.0)
olvi98*	0.0	0.012	0.25	(0.0)
olvi99*	0.0	0.012	0.25	(0.0)
olvi100*	0.0	0.012	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.988	0.75	(1.0)
olvi4*	0.0	0.012	0.25	(0.0)
olvi5*	0.0	0.012	0.25	(0.0)
olvi6*	0.0	0.012	0.25	(0.0)
olvi7*	0.0	0.012	0.25	(0.0)
olvi8*	0.0	0.012	0.25	(0.0)
olvi9*	0.0	0.012	0.25	(0.0)
olvi10*	0.0	0.012	0.25	(0.0)
olvi11*	0.0	0.012	0.25	(0.0)
olvi12*	0.0	0.012	0.25	(0.0)
olvi13*	0.0	0.012	0.25	(0.0)
olvi14*	0.0	0.012	0.25	(0.0)
olvi15*	0.0	0.012	0.25	(0.0)
olvi16*	0.0	0.012	0.25	(0.0)
olvi17*	0.0	0.012	0.25	(0.0)
olvi18*	0.0	0.012	0.25	(0.0)
olvi19*	0.0	0.012	0.25	(0.0)
olvi20*	0.0	0.012	0.25	(0.0)
olvi21*	0.0	0.012	0.25	(0.0)
olvi22*	0.0	0.012	0.25	(0.0)
olvi23*	0.0	0.012	0.25	(0.0)
olvi24*	0.0	0.012	0.25	(0.0)
olvi25*	0.0	0.012	0.25	(0.0)
olvi26*	0.0	0.012	0.25	(0.0)
olvi27*	0.0	0.012	0.25	(0.0)
olvi28*	0.0	0.012	0.25	(0.0)
olvi29*	0.0	0.012	0.25	(0.0)
olvi30*	0.0	0.012	0.25	(0.0)
olvi31*	0.0	0.012	0.25	(0.0)
olvi32*	0.0	0.012	0.25	(0.0)
olvi33*	0.0	0.012	0.25	(0.0)
olvi34*	0.0	0.012	0.25	(0.0)

