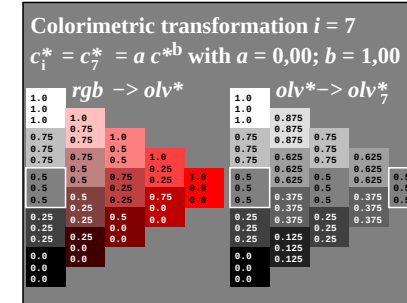
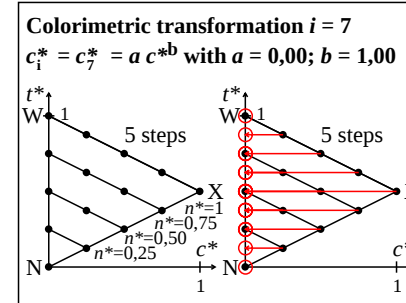
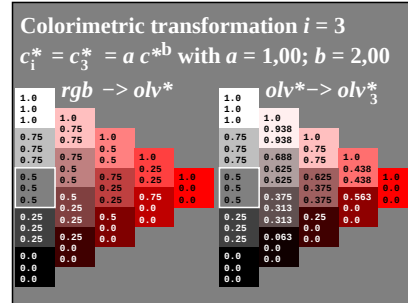
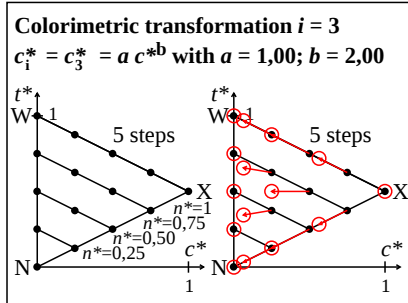
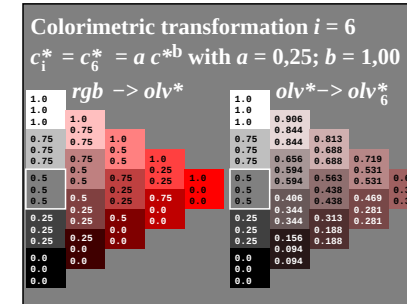
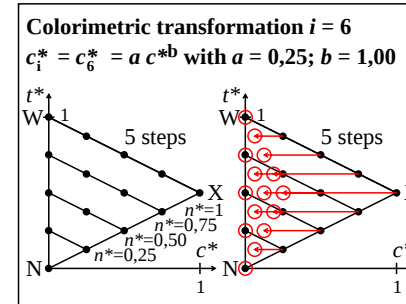
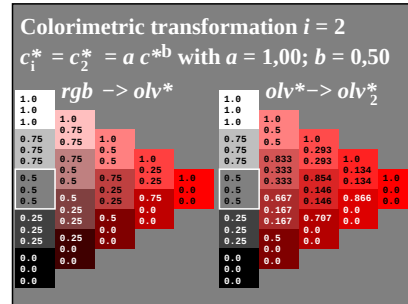
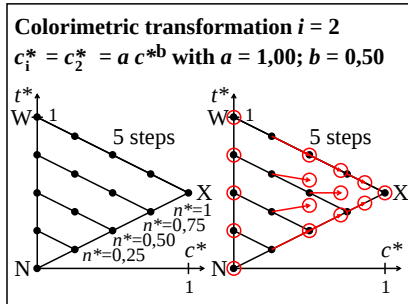
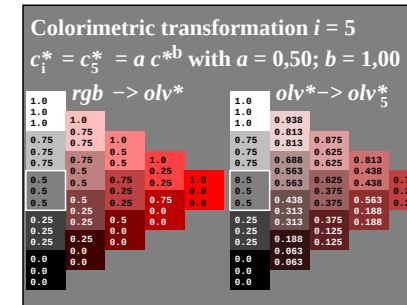
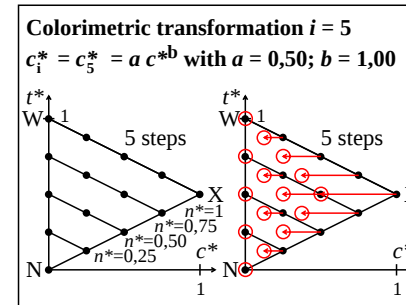
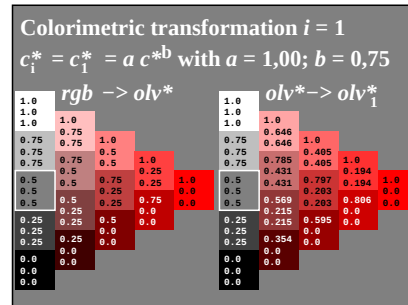
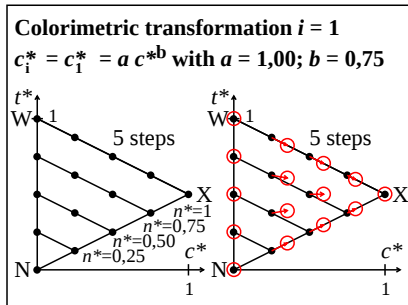
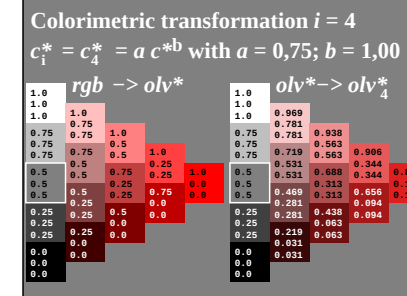
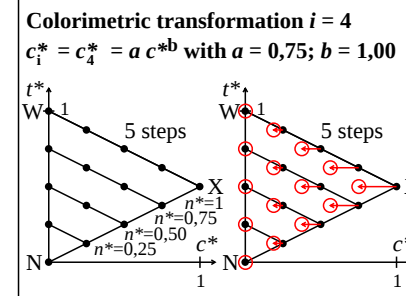
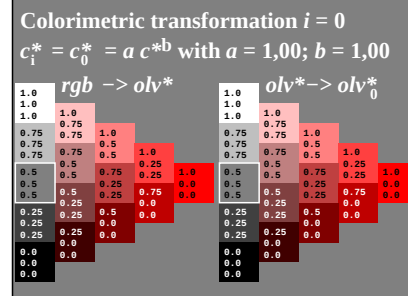
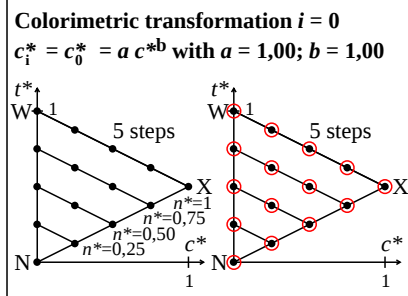
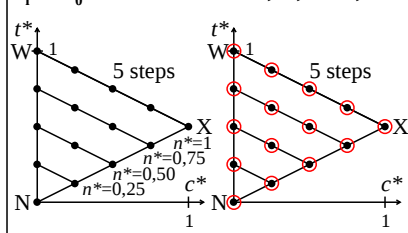


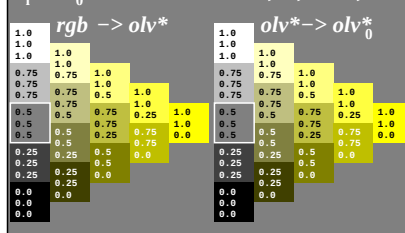


Colorimetric transformation $i = 0$
 $c_i^* = c_0^* = a c^{*b}$ with $a = 1,00$; $b = 1,00$



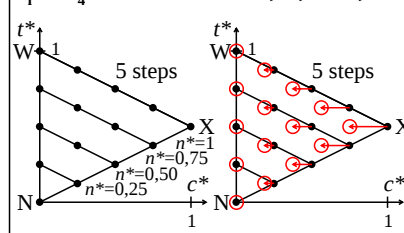
IE670-1N, 1

Colorimetric transformation $i = 0$
 $c_i^* = c_0^* = a c^{*b}$ with $a = 1,00$; $b = 1,00$



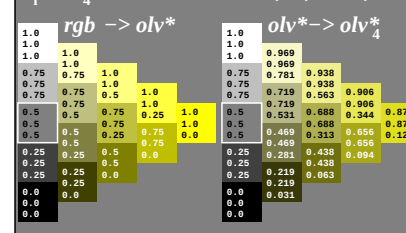
IE670-2N, 12

Colorimetric transformation $i = 4$
 $c_i^* = c_4^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$



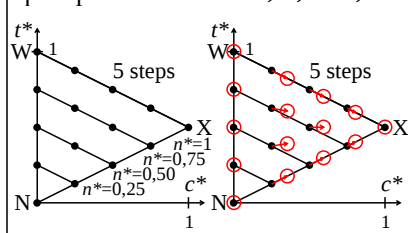
IE671-1N, 5

Colorimetric transformation $i = 4$
 $c_i^* = c_4^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$



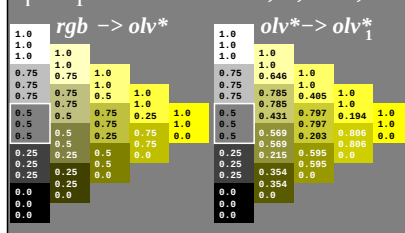
IE671-2N, 52

Colorimetric transformation $i = 1$
 $c_i^* = c_1^* = a c^{*b}$ with $a = 1,00$; $b = 0,75$



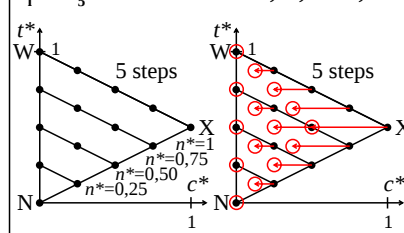
IE670-3N, 2

Colorimetric transformation $i = 1$
 $c_i^* = c_1^* = a c^{*b}$ with $a = 1,00$; $b = 0,75$



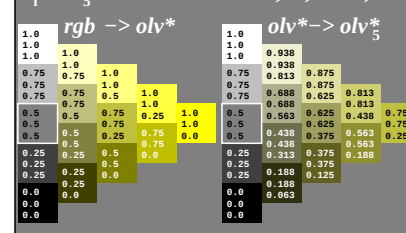
IE670-4N, 22

Colorimetric transformation $i = 5$
 $c_i^* = c_5^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$



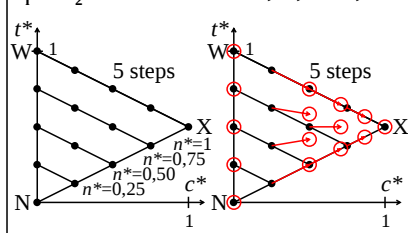
IE671-3N, 6

Colorimetric transformation $i = 5$
 $c_i^* = c_5^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$



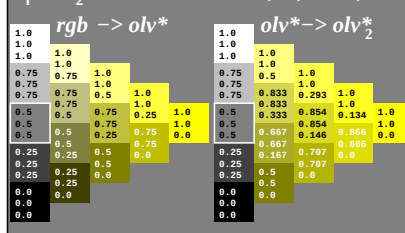
IE671-4N, 62

Colorimetric transformation $i = 2$
 $c_i^* = c_2^* = a c^{*b}$ with $a = 1,00$; $b = 0,50$



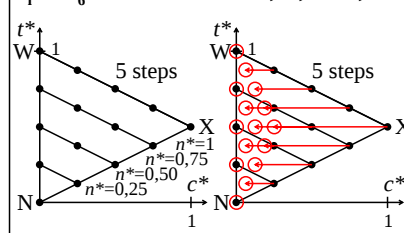
IE670-5N, 3

Colorimetric transformation $i = 2$
 $c_i^* = c_2^* = a c^{*b}$ with $a = 1,00$; $b = 0,50$



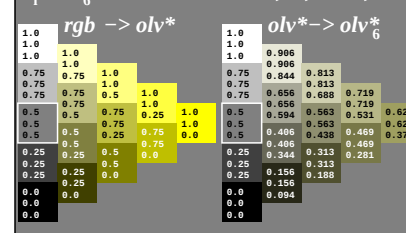
IE670-6N, 32

Colorimetric transformation $i = 6$
 $c_i^* = c_6^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$



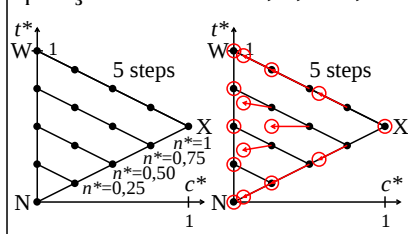
IE671-5N, 7

Colorimetric transformation $i = 6$
 $c_i^* = c_6^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$



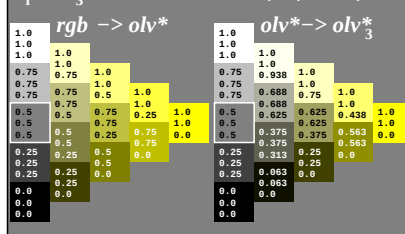
IE671-6N, 72

Colorimetric transformation $i = 3$
 $c_i^* = c_3^* = a c^{*b}$ with $a = 1,00$; $b = 2,00$



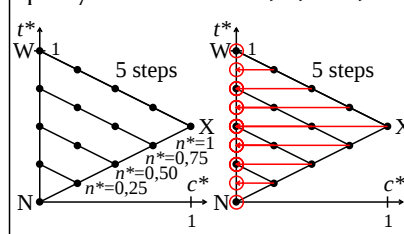
IE670-7N, 4

Colorimetric transformation $i = 3$
 $c_i^* = c_3^* = a c^{*b}$ with $a = 1,00$; $b = 2,00$



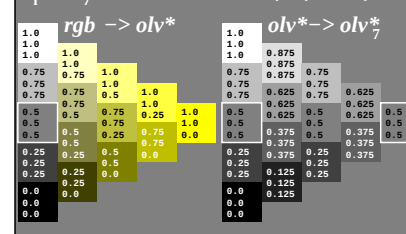
IE670-8N, 42

Colorimetric transformation $i = 7$
 $c_i^* = c_7^* = a c^{*b}$ with $a = 0,00$; $b = 1,00$



IE671-7N, 8

Colorimetric transformation $i = 7$
 $c_i^* = c_7^* = a c^{*b}$ with $a = 0,00$; $b = 1,00$

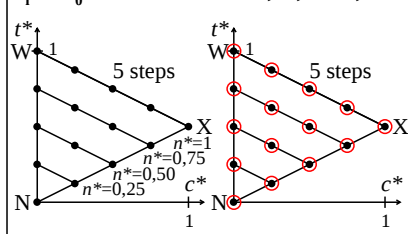


IE671-8N, 82

TUB-test chart IE67; Relative colour reproduction, Colour Y
Colorimetric transformation of relative chroma c^* by a, b

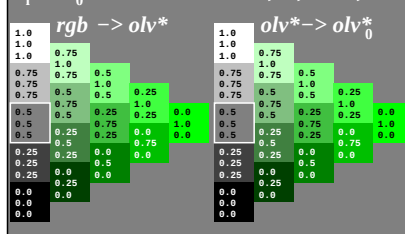
input: $rgb \rightarrow olv^*$ setrgbcolor
output: no change compared to input

Colorimetric transformation $i = 0$
 $c_i^* = c_0^* = a c^{*b}$ with $a = 1,00$; $b = 1,00$



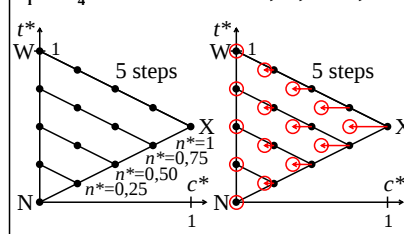
IE670-1N, 1

Colorimetric transformation $i = 0$
 $c_i^* = c_0^* = a c^{*b}$ with $a = 1,00$; $b = 1,00$



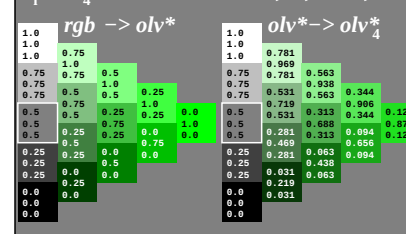
IE670-2N, 13

Colorimetric transformation $i = 4$
 $c_i^* = c_4^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$



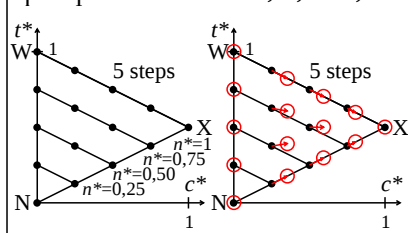
IE671-1N, 5

Colorimetric transformation $i = 4$
 $c_i^* = c_4^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$



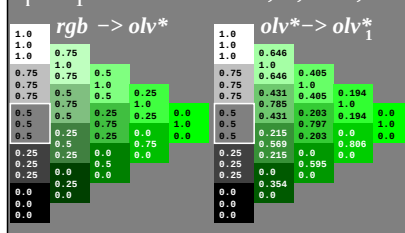
IE671-2N, 53

Colorimetric transformation $i = 1$
 $c_i^* = c_1^* = a c^{*b}$ with $a = 1,00$; $b = 0,75$



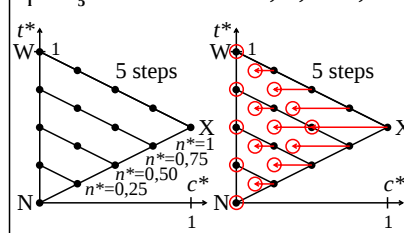
IE670-3N, 2

Colorimetric transformation $i = 1$
 $c_i^* = c_1^* = a c^{*b}$ with $a = 1,00$; $b = 0,75$



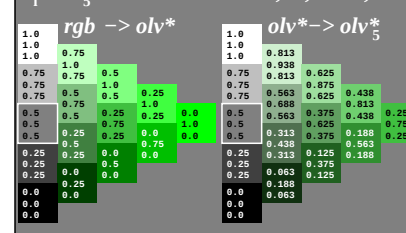
IE670-4N, 23

Colorimetric transformation $i = 5$
 $c_i^* = c_5^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$



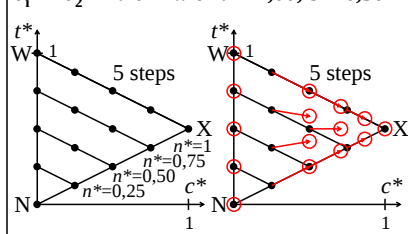
IE671-3N, 6

Colorimetric transformation $i = 5$
 $c_i^* = c_5^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$



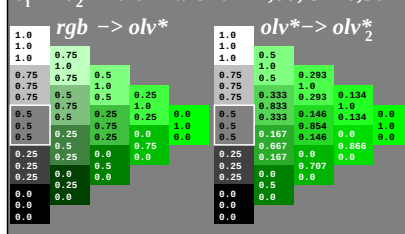
IE671-4N, 63

Colorimetric transformation $i = 2$
 $c_i^* = c_2^* = a c^{*b}$ with $a = 1,00$; $b = 0,50$



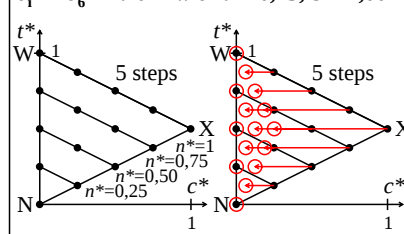
IE670-5N, 3

Colorimetric transformation $i = 2$
 $c_i^* = c_2^* = a c^{*b}$ with $a = 1,00$; $b = 0,50$



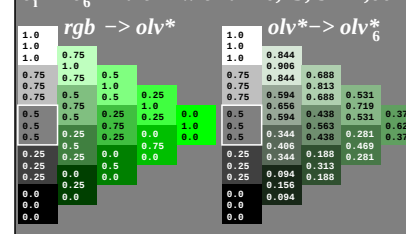
IE670-6N, 33

Colorimetric transformation $i = 6$
 $c_i^* = c_6^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$



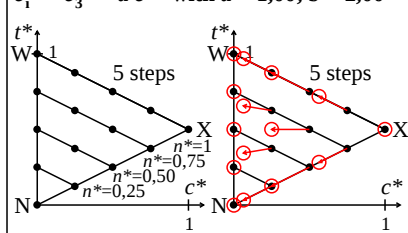
IE671-5N, 7

Colorimetric transformation $i = 6$
 $c_i^* = c_6^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$



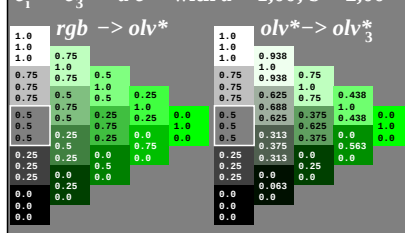
IE671-6N, 73

Colorimetric transformation $i = 3$
 $c_i^* = c_3^* = a c^{*b}$ with $a = 1,00$; $b = 2,00$



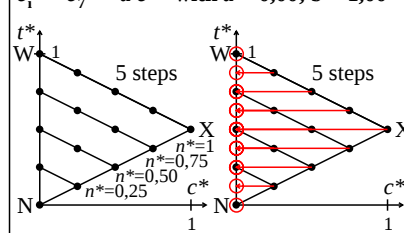
IE670-7N, 4

Colorimetric transformation $i = 3$
 $c_i^* = c_3^* = a c^{*b}$ with $a = 1,00$; $b = 2,00$



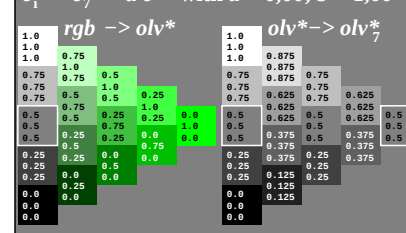
IE670-8N, 43

Colorimetric transformation $i = 7$
 $c_i^* = c_7^* = a c^{*b}$ with $a = 0,00$; $b = 1,00$



IE671-7N, 8

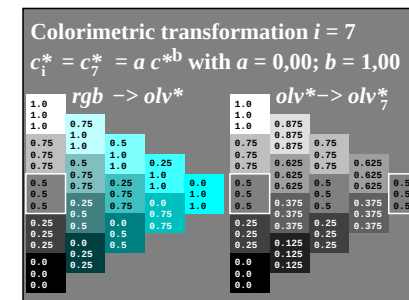
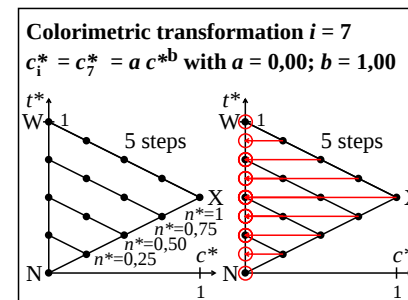
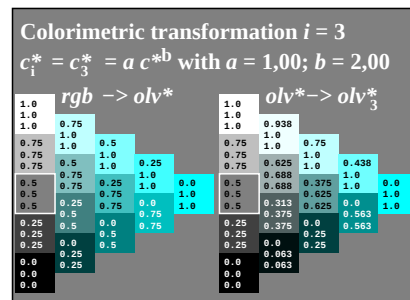
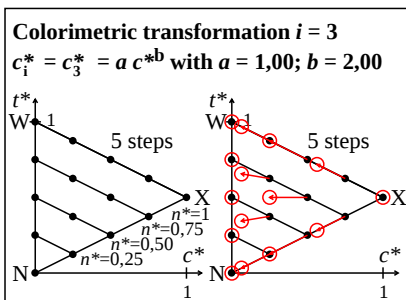
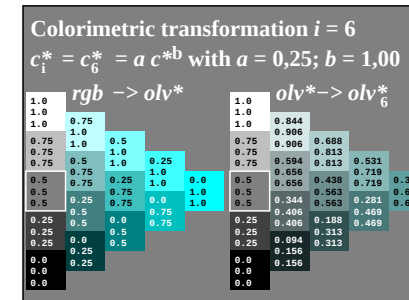
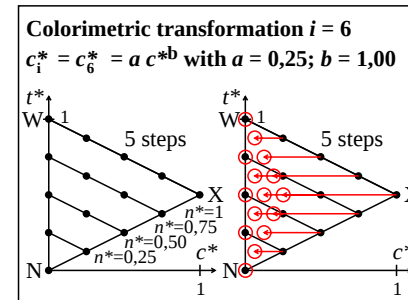
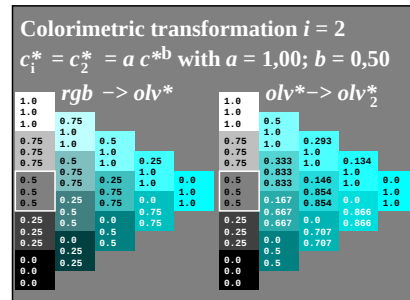
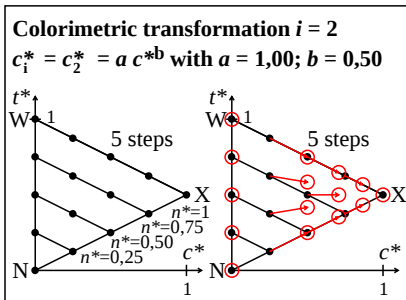
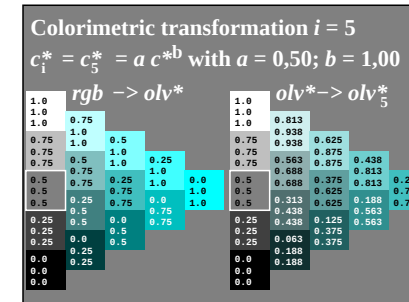
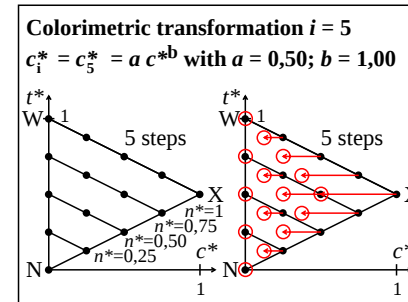
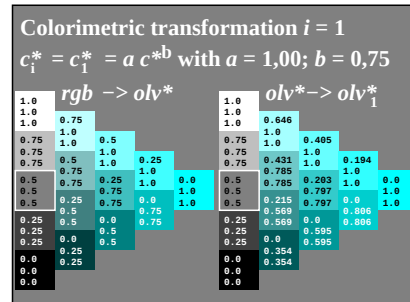
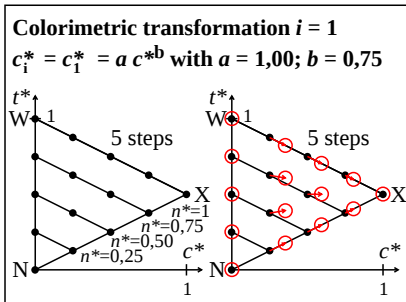
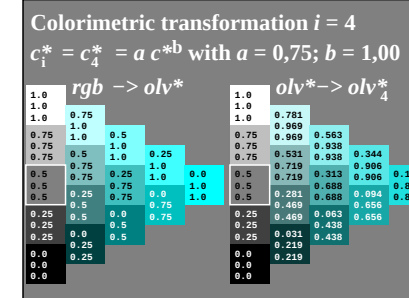
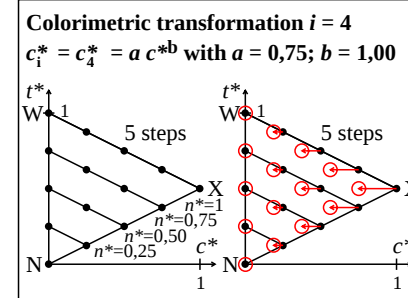
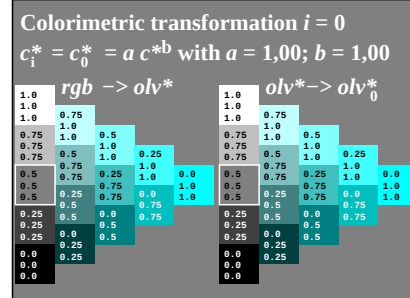
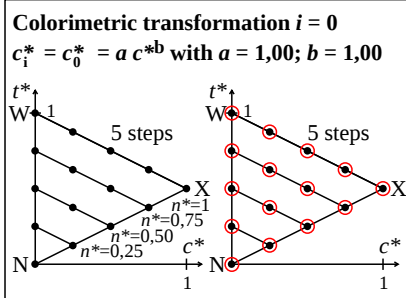
Colorimetric transformation $i = 7$
 $c_i^* = c_7^* = a c^{*b}$ with $a = 0,00$; $b = 1,00$



IE671-8N, 83

TUB-test chart IE67; Relative colour reproduction, Colour L
Colorimetric transformation of relative chroma c^* by a, b

input: $rgb \rightarrow olv^*$ setrgbcolor
output: no change compared to input



TUB-test chart IE67; Relative colour reproduction, Colour C
Colorimetric transformation of relative chroma c^* by a, b

input: $rgb \rightarrow olv^*$ setrgbcolor
output: no change compared to input

Colorimetric transformation $i = 1$, $a = 1.00$; $b = 1.00$

5 steps

C^*

1

IE670-1N, 1

Colorimetric transformation $i = 1$, $a = 1.00$; $b = 0.75$

5 steps

C^*

1

IE670-3N, 2

Colorimetric transformation $i = 2$, $a = 1.00$; $b = 0.50$

5 steps

C^*

1

IE670-5N, 3

Colorimetric transformation $i = 3$, $a = 1.00$; $b = 2.00$

5 steps

C^*

1

IE670-7N, 4

Colorimetric transformation $i = 1$, $a = 1.00$; $b = 1.00$

$c_1^* = c_1^* = a c^{*b}$ with $a = 1.00$; $b = 1.00$

$rgb \rightarrow olv^*$

1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
0.75	1.0	0.5	0.25	0.0	0.0	0.0
0.75	0.75	1.0	0.5	0.0	0.0	0.0
0.75	0.75	0.75	1.0	0.0	0.0	0.0
0.5	0.5	0.5	0.5	1.0	0.0	0.0
0.25	0.25	0.25	0.25	0.0	1.0	0.0
0.25	0.25	0.25	0.25	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

$olv^* \rightarrow olv_0^*$

1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
0.75	1.0	0.5	0.25	0.0	0.0	0.0
0.75	0.75	1.0	0.5	0.0	0.0	0.0
0.75	0.75	0.75	1.0	0.0	0.0	0.0
0.5	0.5	0.5	0.5	1.0	0.0	0.0
0.25	0.25	0.25	0.25	0.0	1.0	0.0
0.25	0.25	0.25	0.25	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Colorimetric transformation $i = 1$, $a = 1.00$; $b = 0.75$

$c_1^* = c_1^* = a c^{*b}$ with $a = 1.00$; $b = 0.75$

$rgb \rightarrow olv^*$

1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
0.75	1.0	0.5	0.25	0.0	0.0	0.0
0.75	0.75	1.0	0.5	0.0	0.0	0.0
0.75	0.75	0.75	1.0	0.0	0.0	0.0
0.5	0.5	0.5	0.5	1.0	0.0	0.0
0.25	0.25	0.25	0.25	0.0	1.0	0.0
0.25	0.25	0.25	0.25	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

$olv^* \rightarrow olv_1^*$

1.0	0.646	0.405	0.184	0.0	0.0	0.0
1.0	0.646	0.405	0.184	0.0	0.0	0.0
1.0	0.646	0.405	0.184	0.0	0.0	0.0
0.75	0.431	0.203	0.086	0.0	0.0	0.0
0.75	0.431	0.203	0.086	0.0	0.0	0.0
0.75	0.431	0.203	0.086	0.0	0.0	0.0
0.5	0.215	0.108	0.043	0.0	0.0	0.0
0.25	0.108	0.054	0.021	0.0	0.0	0.0
0.25	0.108	0.054	0.021	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Colorimetric transformation $i = 2$, $a = 1.00$; $b = 0.50$

$c_1^* = c_2^* = a c^{*b}$ with $a = 1.00$; $b = 0.50$

$rgb \rightarrow olv^*$

1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0.75	0.5	0.25	0.0	0.0	0.0
1.0	0					

Colorimetric transformation $i = 1$
 $c_1^* = c_4^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$

Colorimetric transformation $i = 2$
 $c_2^* = c_5^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$

Colorimetric transformation $i = 3$
 $c_3^* = c_6^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$

Colorimetric transformation $i = 4$
 $c_4^* = c_7^* = a c^{*b}$ with $a = 0,50$; $b = 1,00$

Colorimetric transformation $i = 5$
 $c_5^* = c_8^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$

Colorimetric transformation $i = 6$
 $c_6^* = c_9^* = a c^{*b}$ with $a = 0,25$; $b = 1,00$

Colorimetric transformation $i = 7$
 $c_7^* = c_{10}^* = a c^{*b}$ with $a = 0,00$; $b = 1,00$

Figure 1 illustrates colorimetric transformations for different values of i (1 to 7). Each row shows a transformation from W^* to X^* via C^* using 5 steps. The transformations are defined by $c_i^* = c_i^* = a c^{*b}$ with $a = 0,75$; $b = 1,00$ for $i = 1, 2$; $a = 0,50$; $b = 1,00$ for $i = 3, 4$; $a = 0,25$; $b = 1,00$ for $i = 5, 6$; and $a = 0,00$; $b = 1,00$ for $i = 7$. The diagrams show the mapping of points W^* (1,0,0) and N^* (0,0,1) to X^* (1,1,1) through intermediate points C^* . The rightmost column shows the corresponding colorimetric transformation tables for each case.

rbg -> olv* olv* -> olv*_4 olv* -> olv*_5

IE671-2N, 55

rbg -> olv* olv* -> olv*_5

IE671-4N, 65

rbg -> olv* olv* -> olv*_6

IE671-6N, 75

rbg -> olv* olv* -> olv*_7

IE671-8N, 85

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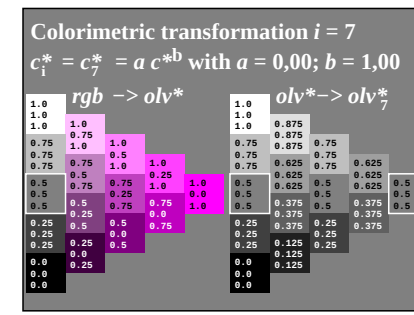
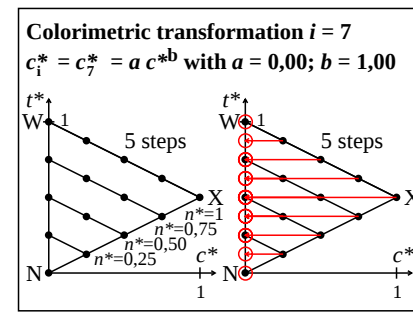
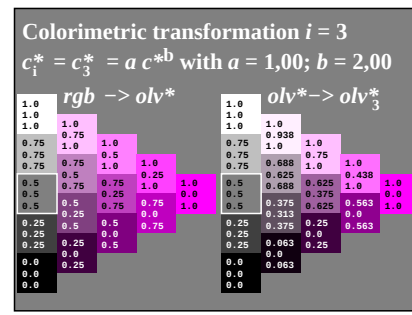
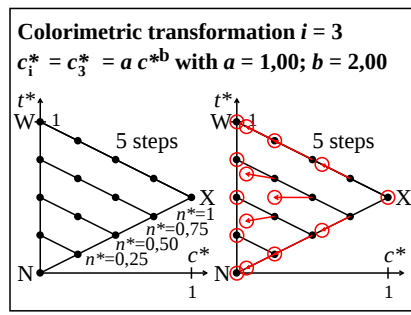
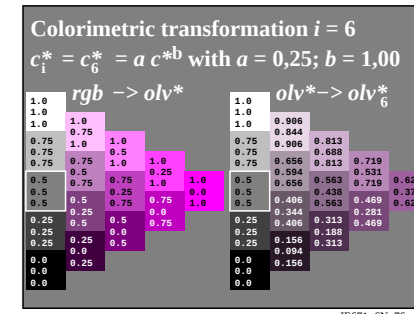
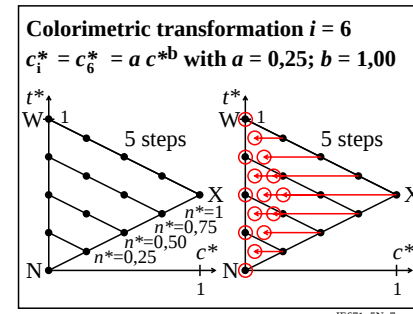
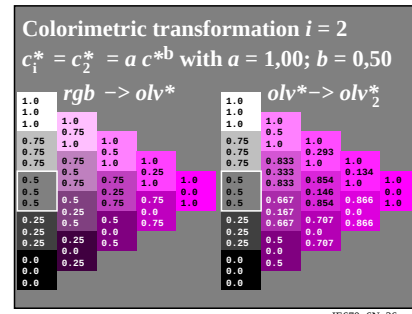
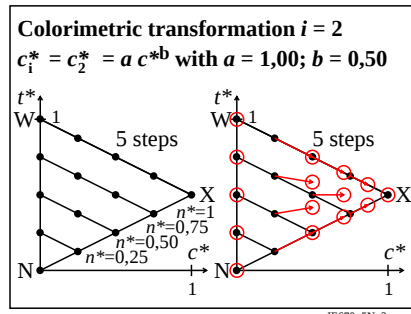
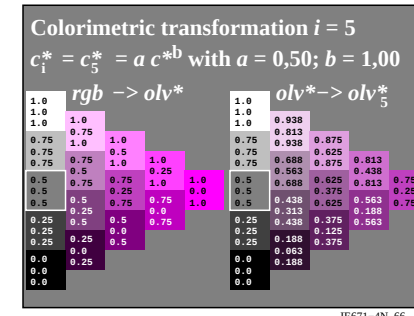
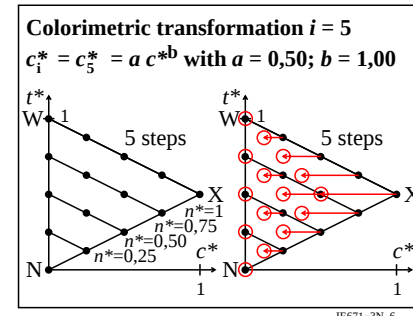
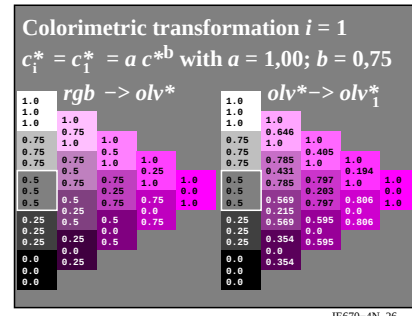
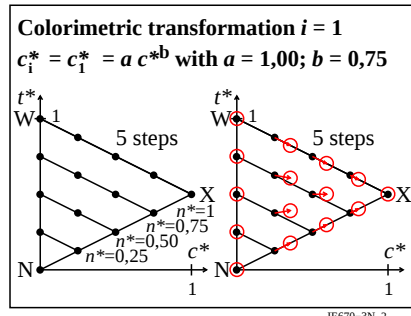
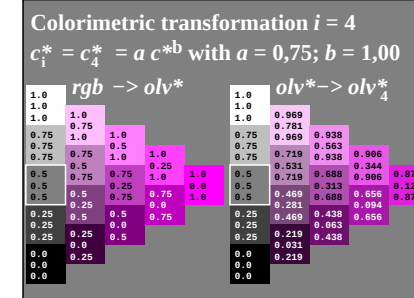
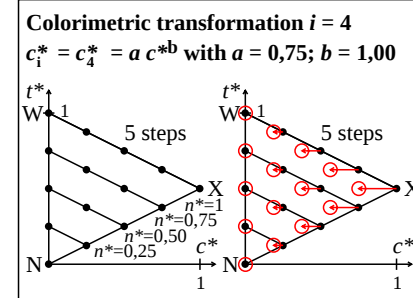
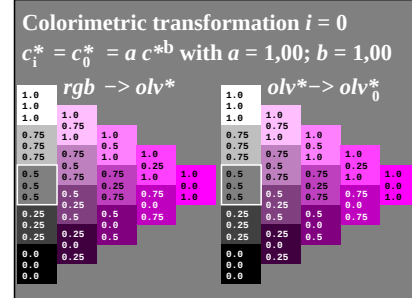
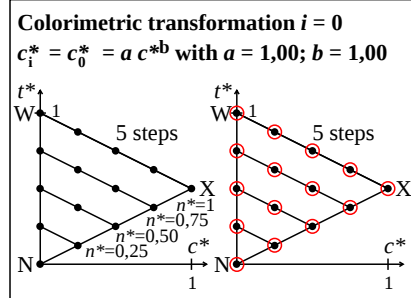
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application for measurement of printer or monitor systems

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TUB-test chart IE67; Relative colour reproduction, Colour
Colorimetric transformation of relative chroma c^* by a , b

```
input: rgb -> olv* setrgbcolor
output: no change compared to input
```

See original or copy: <http://web.me.com/klaus.richter/IE67/IE67L0NP.PDF> / .PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



TUB-test chart IE67; Relative colour reproduction, Colour M
Colorimetric transformation of relative chroma c^* by a, b

input: *rgb* $\rightarrow$ *olv** *setrgbcolor*
output: no change compared to input