

Colorimetric transformation $i = 3$

$c_i^* = c_3^* = a \cdot c^{*b}$ with $a = 1,00$; $b = 2,00$

A 16x16 grayscale heatmap illustrating the conversion from RGB to CMYK color space. The x-axis represents the RGB value, and the y-axis represents the CMYK value. The color scale indicates the intensity of each color component, ranging from black (0.0) to white (1.0). The plot shows a diagonal transition from black to white, with a distinct vertical band of higher contrast at the bottom.

		$ctyn^*$	ϵ	$ctyn^*$	$e3$
1.0					
1.0					
1.0	1.0				
0.75	0.938				
0.75	0.938	1.0			
0.75	0.75	0.75			
0.75	0.688	0.75	1.0		
0.75	0.625	0.625	0.438		
0.5	0.625	0.625	0.438	1.0	
0.5	0.375	0.375	0.0	0.0	
0.5	0.375	0.375	0.563	0.0	
0.25	0.313	0.313	0.0	0.0	
0.25	0.25	0.25	0.0	0.0	
0.25	0.0	0.0	0.0	0.0	
0.25	0.063	0.063	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	

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$rgb \rightarrow cmyn^*$			
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
0.75	0.75	1.0	0.938
0.75	0.75	1.0	0.75
0.75	0.75	0.5	0.688
0.75	0.75	1.0	0.688
0.5	0.5	0.75	0.625
0.5	0.5	0.75	0.625
0.5	0.5	0.25	0.563
0.5	0.5	0.75	0.0
0.25	0.25	0.5	0.375
0.25	0.25	0.0	0.375
0.25	0.25	0.25	0.25
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

$cmyn^* \rightarrow cmyn^*_e$			
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
0.75	0.938	1.0	0.438
0.75	1.0	1.0	1.0
0.75	0.688	0.75	0.563
0.5	0.625	0.625	0.563
0.5	0.625	0.625	0.0
0.5	0.375	0.375	0.0
0.25	0.313	0.25	0.0
0.25	0.25	0.25	0.0
0.25	0.063	0.063	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

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$rgb \rightarrow cmyn^*$			
1.0	1.0	1.0	1.0
1.0	0.75		
0.75	1.0	0.5	
0.75	0.75	0.5	
0.75	1.0	1.0	
0.75	0.5	0.25	
0.75	0.75	1.0	
0.5	0.5	0.25	0.0
0.5	0.75	0.25	1.0
0.5	0.25	0.25	0.0
0.5	0.5	0.75	
0.25	0.25	0.0	0.0
0.25	0.5		
0.25	0.0	0.0	
0.0	0.25		
0.0	0.0		
0.0			
0.0			

1.0	1.0	1.0	$cmyn^*_{e3}$	$cmyn^*_{e3}$
1.0	0.938	1.0	0.75	
0.75	0.938	0.75	1.0	
0.75	0.625	0.75	0.438	
0.75	0.688	0.375	1.0	
0.5	0.625	0.375	0.438	0.0
0.5	0.5	0.625	1.0	
0.5	0.313	0.375	0.0	0.0
0.5	0.375	0.0	0.563	
0.25	0.313	0.0	0.0	0.0
0.25	0.25	0.25		
0.25	0.25	0.0	0.0	
0.0	0.0	0.0	0.063	
0.0	0.0	0.0		
0.0	0.0	0.0		

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$c_i^* = c_3^* = a \cdot c^{*b}$ with $a = 1,00$; $b = 2,00$

$rgb \rightarrow cmyn^*$			
1.0			
1.0			
1.0	0.75		
0.75	1.0	0.5	
0.75	1.0	1.0	
0.75	0.5	1.0	0.25
0.5	0.75	0.25	1.0
0.5	0.75	0.75	1.0
0.5	0.25	0.75	0.0
0.25	0.5	0.0	0.75
0.25	0.5	0.5	
0.25	0.0	0.0	0.5
0.0	0.25	0.25	
0.0	0.0	0.0	0.25
0.0	0.0	0.0	0.063

$cmyn^* \rightarrow cmyn^*_{e3}$			
1.0			
1.0			
1.0	0.938		
0.75	1.0	0.75	
0.75	1.0	1.0	
0.75	0.625	1.0	0.438
0.5	0.688	0.375	1.0
0.5	0.688	1.0	0.0
0.5	0.625	0.625	1.0
0.5	0.313	0.0	1.0
0.25	0.375	0.563	
0.25	0.375	0.0	0.563
0.25	0.25	0.25	
0.25	0.0	0.0	0.25
0.0	0.063		
0.0	0.063		
0.0	0.0		
0.0	0.0		

Colorimetric transformation $i = 3$

$c_i^* = c_3^* = a \cdot c^{*b}$ with $a = 1,00$; $b = 2,00$

$rgb \rightarrow cmyn^*$			
1.0	1.0	1.0	1.0
1.0	0.75	0.75	0.75
0.75	1.0	0.5	0.75
0.75	0.5	0.5	0.75
0.75	0.5	1.0	0.25
0.5	0.75	0.25	0.25
0.5	0.75	1.0	0.0
0.5	0.25	0.25	0.0
0.5	0.25	0.75	1.0
0.25	0.5	0.0	0.75
0.25	0.0	0.0	0.25
0.25	0.0	0.5	0.0
0.0	0.25	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

1.0	1.0	1.0	$cmyn^*_{e3}$	$cmyn^*_{e3}$
1.0	0.938	0.938	0.75	0.75
1.0	0.938	0.938	1.0	0.75
0.75	0.625	0.625	0.625	0.438
0.75	0.688	0.688	0.375	0.438
0.5	0.5	0.5	1.0	0.0
0.5	0.375	0.375	0.375	0.0
0.5	0.313	0.313	0.625	0.0
0.25	0.313	0.313	0.0	0.0
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0.25	0.25	0.25	0.0	0.0
0.25	0.0	0.0	0.25	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.063	0.063	0.0	0.0
0.0	0.0	0.0	0.0	0.0

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$rgb \rightarrow cmyn^*$

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

$cmyn^* \rightarrow cmyn^*_{e3}$

1.0				
1.0				
1.0	1.0			
0.75	0.938			
0.75	1.0	1.0		
0.75	0.75			
0.75	0.688	0.688	1.0	1.0
0.5	0.625	0.625	0.625	0.438
0.5	0.688	0.688	0.625	1.0
0.5	0.375	0.375	0.375	0.0
0.5	0.375	0.625	0.563	1.0
0.25	0.313			0.0
0.25	0.375	0.25	0.25	0.563
0.25	0.25		0.0	
0.25	0.25	0.063	0.25	
0.0	0.0			
0.0	0.063			
0.0	0.0			
0.0	0.0			