

Profile Report

2016-10-07

Information

Name	PSOcoatedv3_GCR_ColorLogic.icc
Path	/Users/dfuchs1/Desktop/.../PSOcoatedv3_GCR_ColorLogic.icc
Size	1651612
Version	2.4
Class	prtr
ColorSpace	CMYK
PCS	Lab
Date	2016-08-31 15:24:48
Rendering	0
Creator	CoLg

1. Profile Statistic

The statistic tests the profile integrity and some profile properties.

The profile integrity indicates how precise a profile converts between the color spaces. The integrity values show as average and maximum deviations.

The DCS to PCS statistic shows how precise the profile matches the measurement data and should be very low.

The black point DCS for RGB profiles should be low or 0/0/0

The black point DCS for CMYK+ profiles should match the allowed total amount of ink.

The black point PCS should be dark and approximately neutral.

The white point DCS should match the device white point.

The white point PCS should match Lab-White.

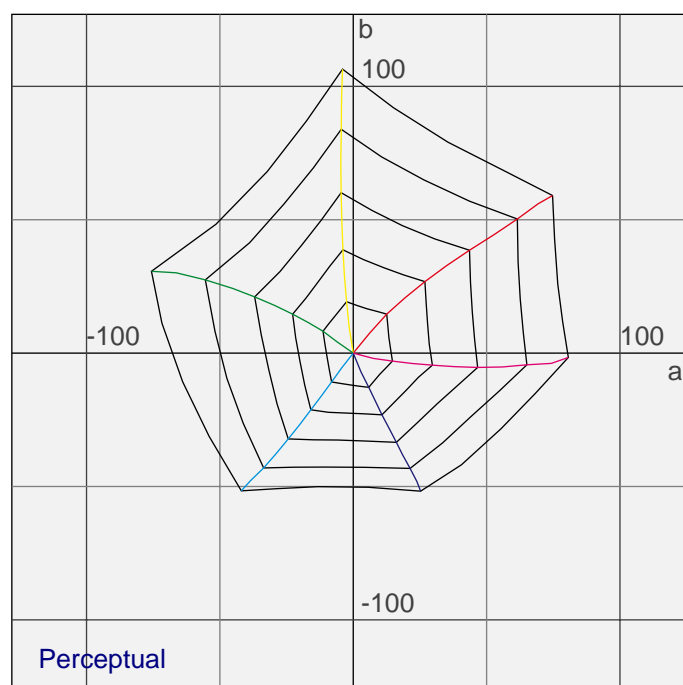
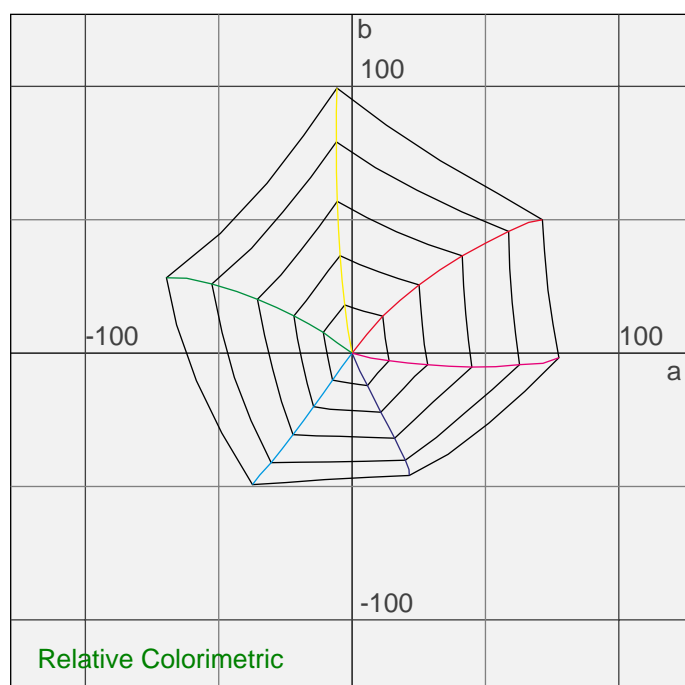
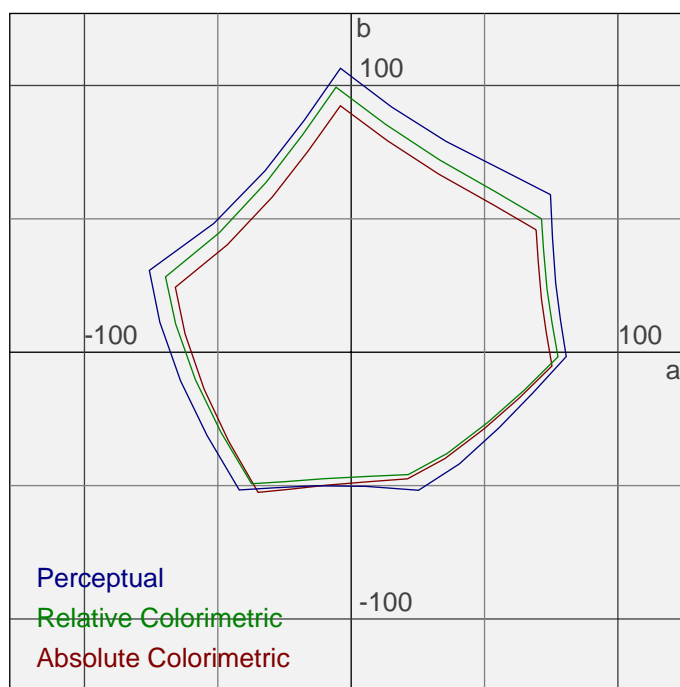
Integrity (DCS) perceptual	1.0/9.7 (Avg/Max CMYK)
Integrity (DCS) relative colorimetric	1.0/12.1 (Avg/Max CMYK)
Integrity (DCS) saturation	1.8/13.3 (Avg/Max CMYK)
Integrity (PCS) perceptual	1.0/9.8 (Avg/Max Lab)
Integrity (PCS) relative colorimetric	0.6/5.6 (Avg/Max Lab)
Integrity (PCS) saturation	1.6/9.5 (Avg/Max Lab)
Precision (DCS-to-PCS) absolute colorimetric	0.0/0.4 (Avg/Max Lab)
BlackPoint (PCS-to-DCS) perceptual	96.2 61.2 44.6 98.0 (CMYK) TAC=300.0%
BlackPoint (PCS-to-DCS) relative colorimetric	96.2 61.2 44.6 98.0 (CMYK) TAC=300.0%
BlackPoint (PCS-to-PCS) perceptual	12.62 -0.05 -0.03 (Lab)
BlackPoint (PCS-to-PCS) relative colorimetric	12.62 -0.05 -0.03 (Lab)
WhitePoint (PCS-to-DCS) perceptual	0.0 0.0 0.0 0.0 (CMYK)
WhitePoint (PCS-to-DCS) relative colorimetric	0.0 0.0 0.0 0.0 (CMYK)
WhitePoint (DCS-to-PCS) perceptual	100.00 0.00 -0.00 (Lab)
WhitePoint (DCS-to-PCS) relative colorimetric	100.00 0.00 -0.00 (Lab)
WhitePoint (DCS-to-PCS) absolute colorimetric	95.00 1.49 -5.99 (Lab)

2. Gamut

The gamut plot illustrates the maximum gamuts in the a/b-diagram when converting from device color space to Lab.

These plots show the gamut for the different rendering intents.

Typically the perceptual gamut is the largest one and the absolute colorimetric gamut is the smallest.



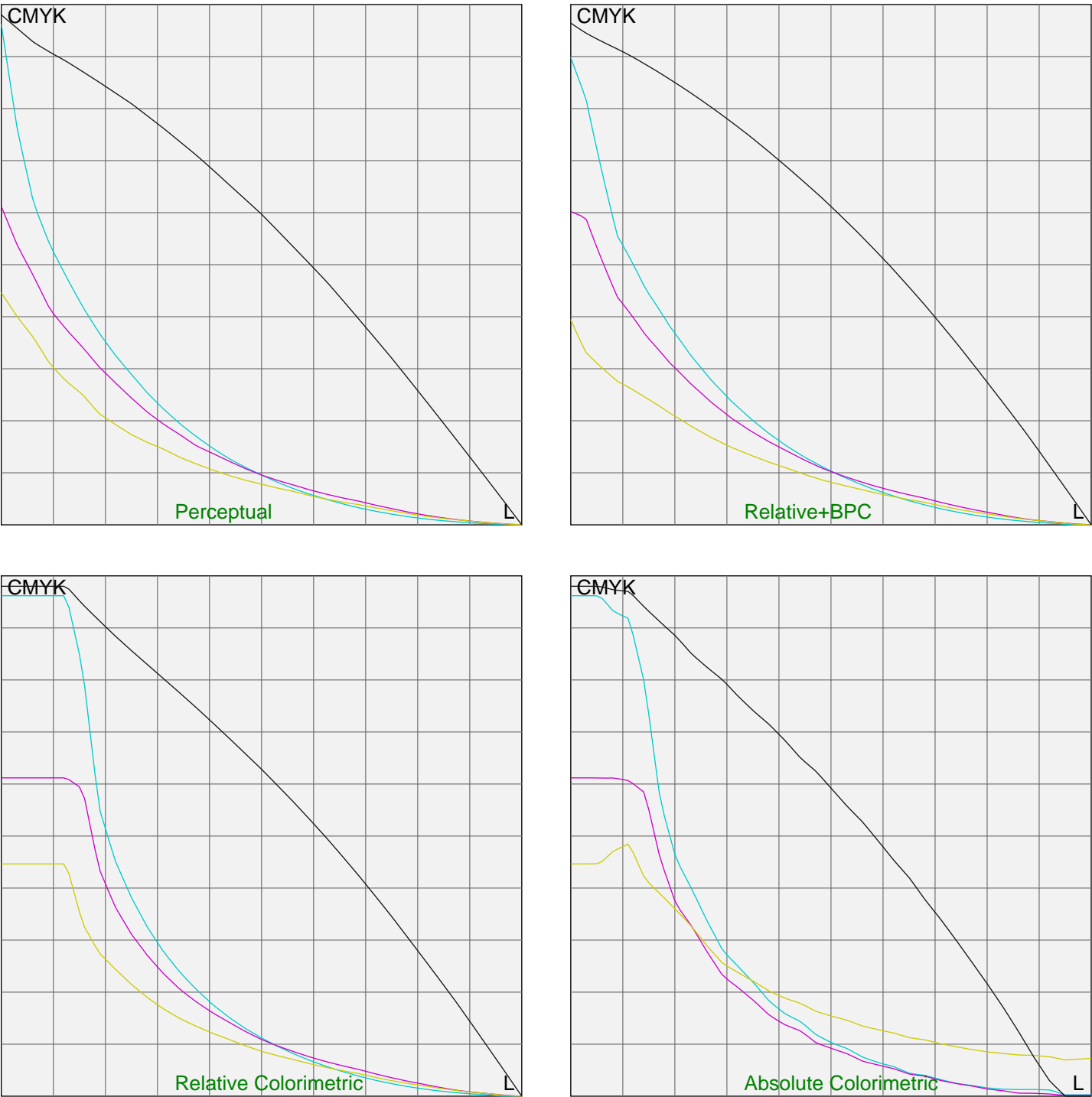
3. Gamut Volume

This table shows the gamut size in Lab and compares it to some standard color spaces.

AbsoluteColorimetric	Lab-Volume	%	Intersection	Union
PSOcoatedv3_GCR_ColorLogic.icc	365309	100.0%	-	-
sRGB	826794	226.3%	90.8%	235.6%
AdobeRGB	1179791	323.0%	99.9%	323.1%
ISOcoated_v2_eci	368907	101.0%	97.0%	104.0%

4. Gray Balance

The diagram show the curves for the primaries for a neutral Lab-ramp. The curves should be smooth

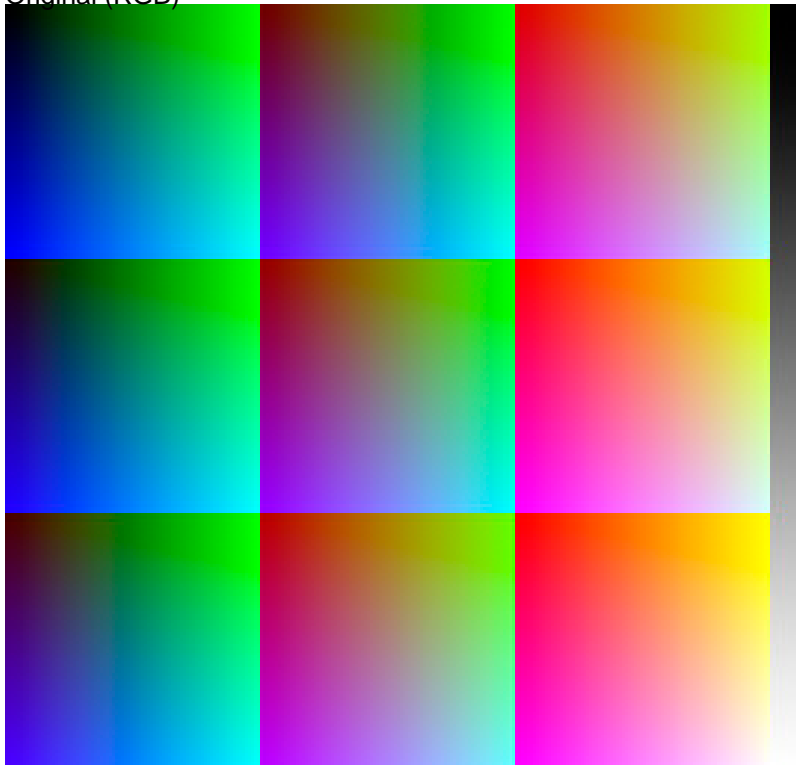


5. Sample Images

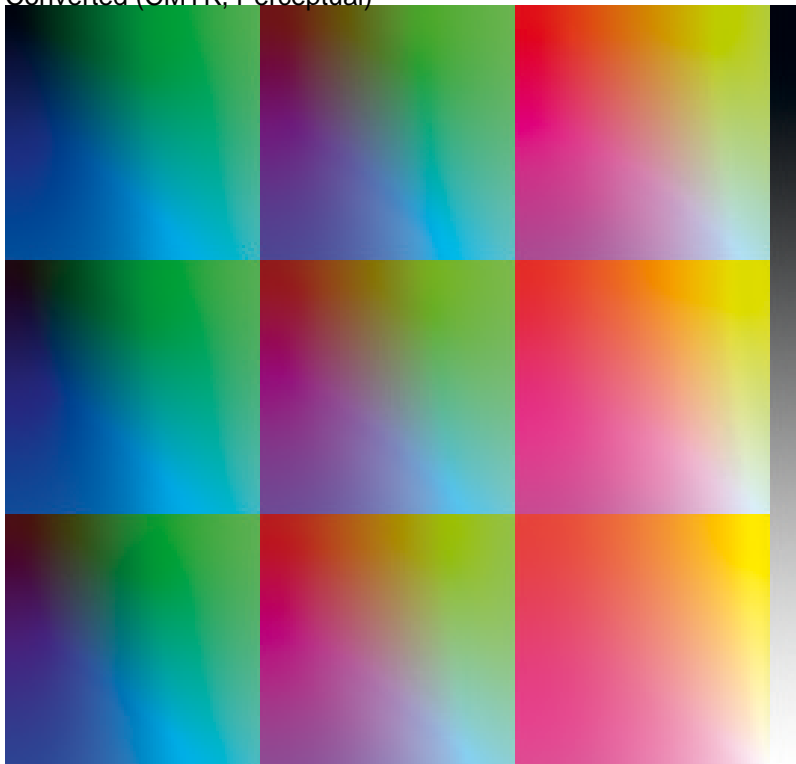
SmoothRGB.tif

Source Profile: Adobe RGB (1998)

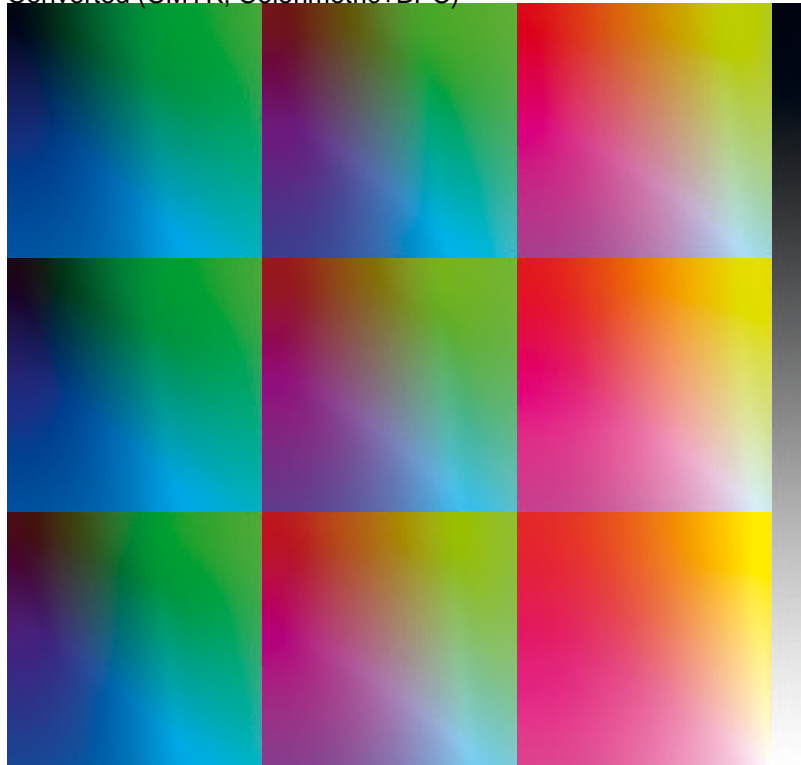
Original (RGB)



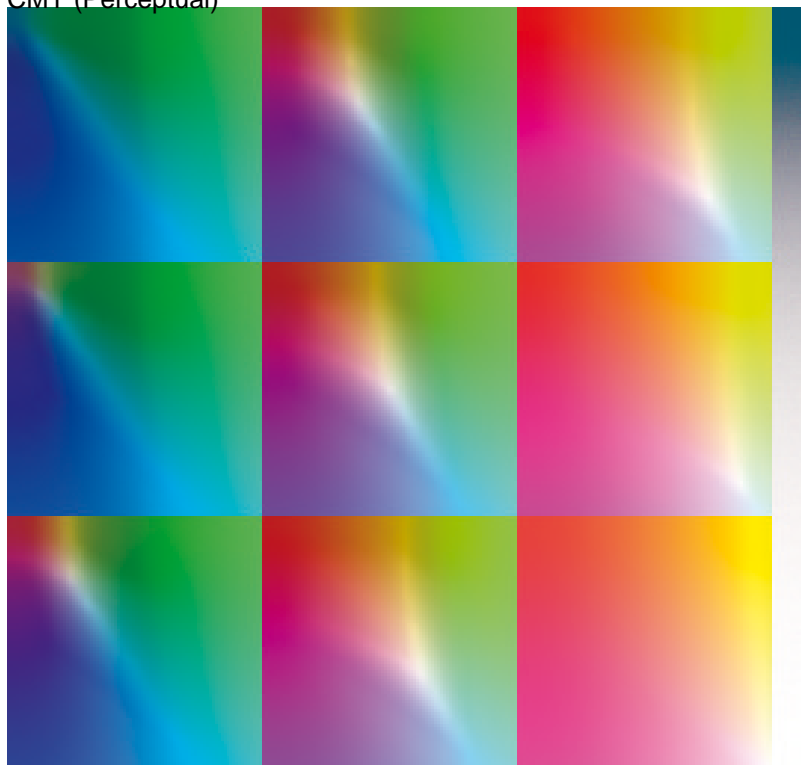
Converted (CMYK, Perceptual)



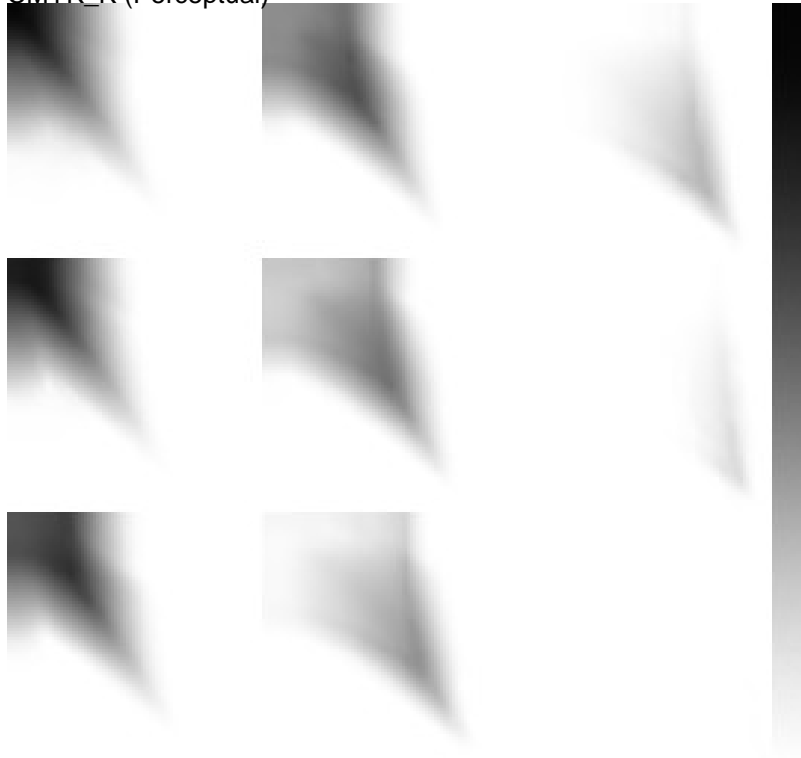
Converted (CMYK, Colorimetric+BPC)



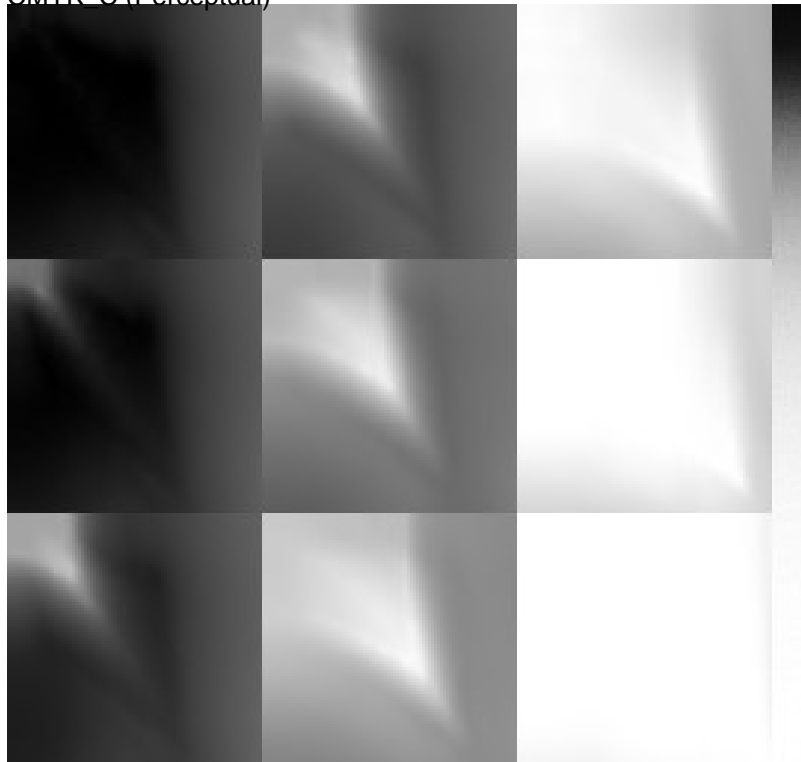
CMY (Perceptual)



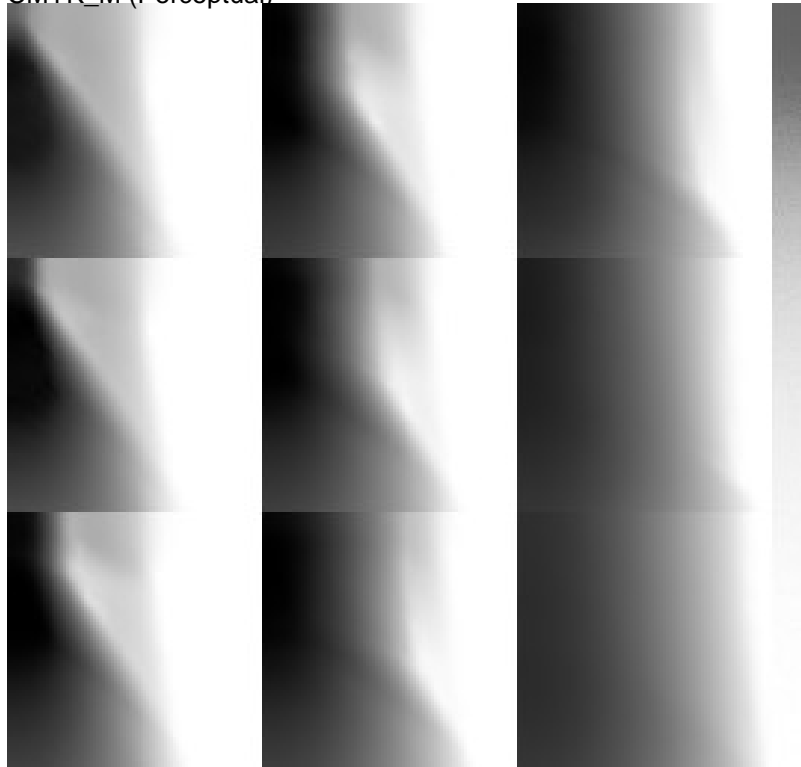
CMYK_K (Perceptual)



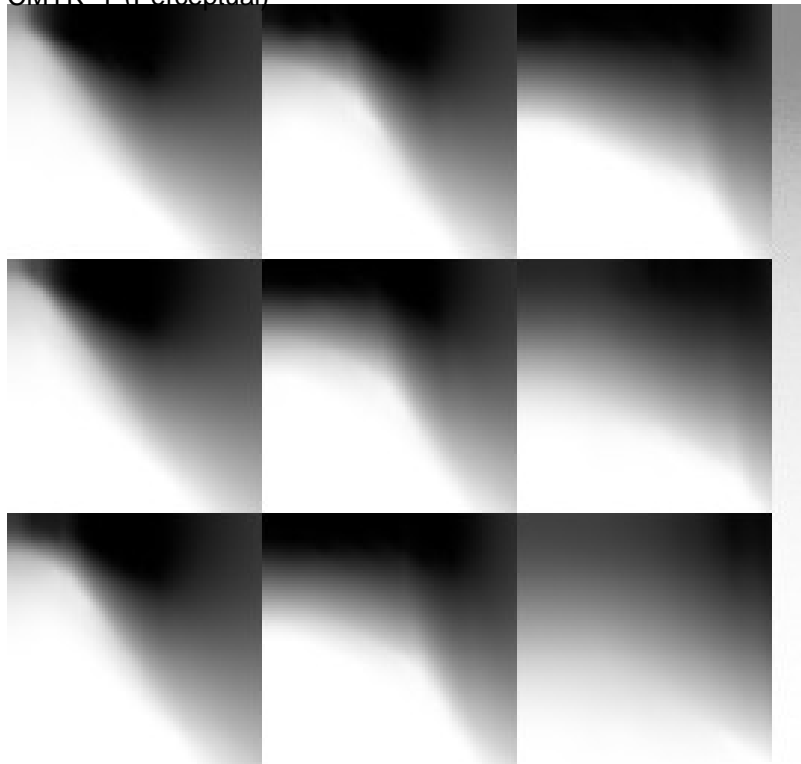
CMYK_C (Perceptual)



CMYK_M (Perceptual)



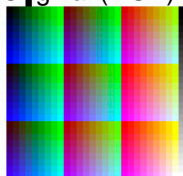
CMYK_Y (Perceptual)



CLEditRGB.tif

Source Profile: Adobe RGB (1998)

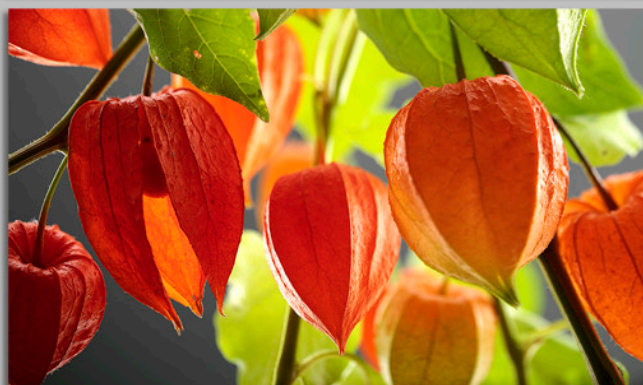
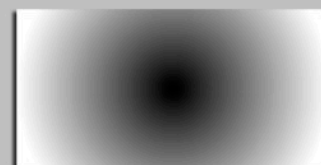
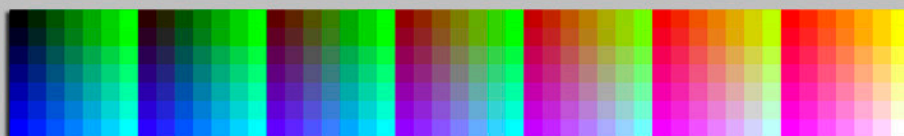
Original (RGB)



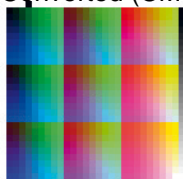
CLEditRGB v2.0
© ColorLogic GmbH 2006
Resolution 144dpi

COLOR
Logic

You may add or change pictures in this area. Please do not use masks for editing.
All corrections must be applied to the whole page. Do NOT scale this page.



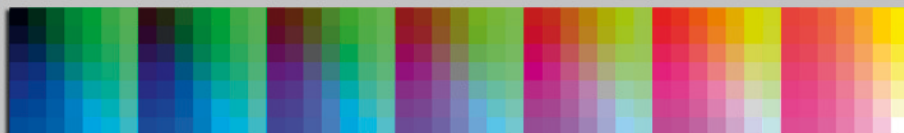
Converted (CMYK, Perceptual)



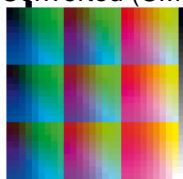
CLEditRGB v2.0
© ColorLogic GmbH 2006
Resolution 144dpi

COLOR
Logic

You may add or change pictures in this area. Please do not use masks for editing.
All corrections must be applied to the whole page. Do NOT scale this page.



Converted (CMYK, Colorimetric+BPC)



CLEditRGB v2.0
© ColorLogic GmbH 2006
Resolution 144dpi

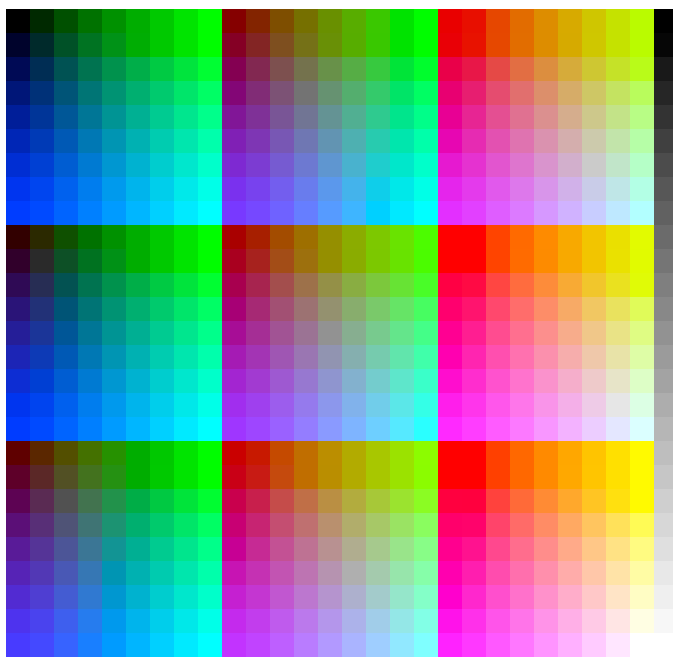
COLOR
Logic

You may add or change pictures in this area. Please do not use masks for editing.
All corrections must be applied to the whole page. Do NOT scale this page.

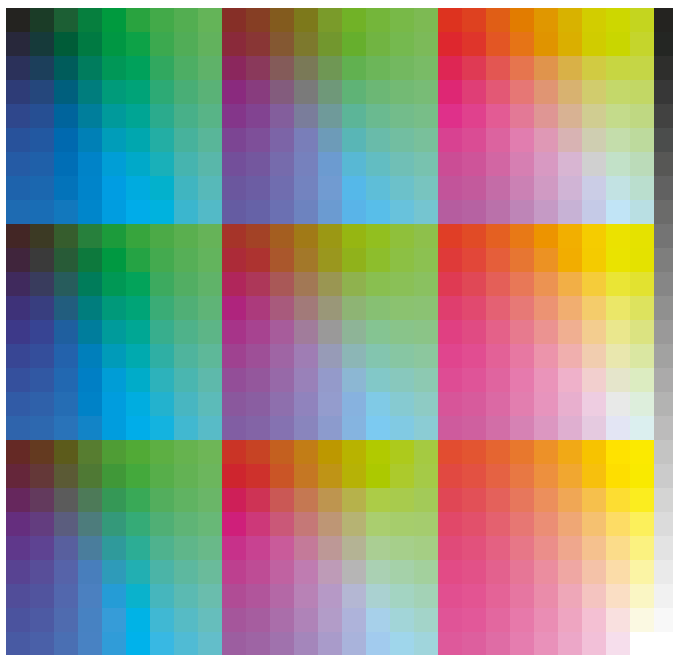


6. RGB Conversion (ECI-RGB v1.0)

This test converts RGB samples with the test profile. For CMYK+ color spaces the K-channel will be shown, too. The display of the converted data is relative colorimetric to RGB. The result should be smooth and color consistent. Original RGB Test Patches



Perceptual (RGB -> Perceptual -> TestProfile -> Colorimetric -> RGB)



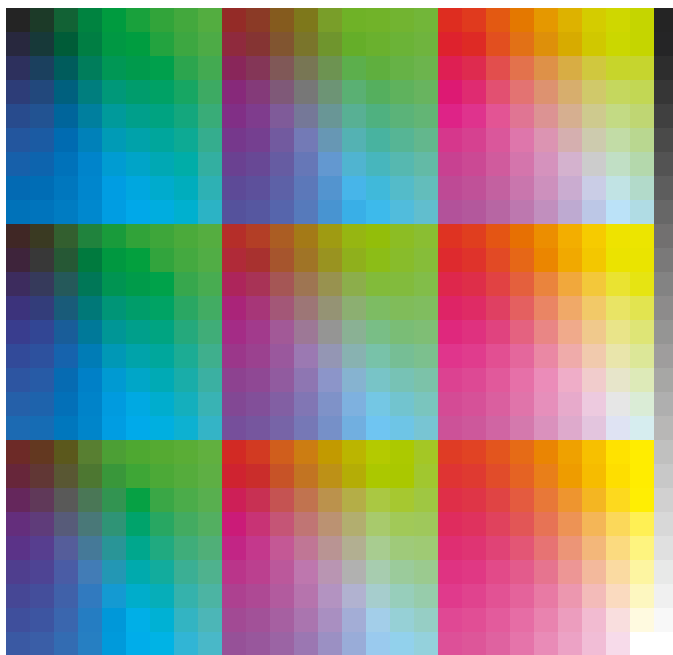
Black Channel (RGB -> Perceptual -> TestProfile)



Samples (Perceptual)

Black	96 / 61 / 45 / 98
White	0 / 0 / 0 / 0
Red	0 / 82 / 84 / 0
Green	66 / 0 / 80 / 0
Blue	94 / 55 / 0 / 0
Cyan	69 / 0 / 23 / 0
Magenta	3 / 78 / 0 / 0
Yellow	3 / 0 / 99 / 0
Cyan Light	51 / 0 / 17 / 0
Magenta Light	1 / 55 / 1 / 0
Yellow Light	2 / 0 / 58 / 0

Colorimetric (RGB -> Colorimetric+BPC -> TestProfile -> Colorimetric -> RGB)



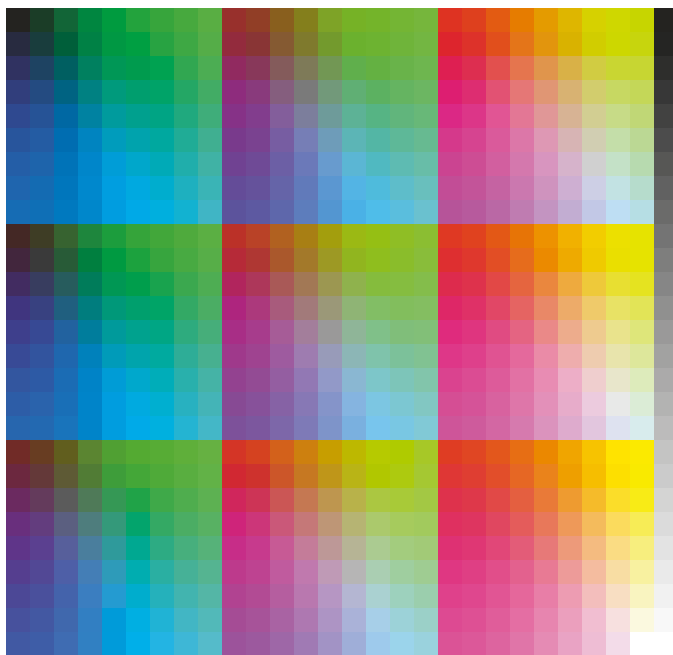
Black Channel (RGB -> Colorimetric+BPC -> TestProfile)



Samples (Colorimetric+BPC)

Black	90 / 60 / 39 / 96
White	0 / 0 / 0 / 0
Red	0 / 89 / 93 / 0
Green	72 / 0 / 91 / 0
Blue	97 / 48 / 0 / 0
Cyan	76 / 0 / 23 / 0
Magenta	3 / 81 / 0 / 0
Yellow	0 / 0 / 98 / 0
Cyan Light	57 / 0 / 17 / 0
Magenta Light	1 / 58 / 0 / 0
Yellow Light	1 / 0 / 58 / 0

Colorimetric (RGB -> Saturation -> TestProfile -> Colorimetric -> RGB)



Black Channel (RGB -> Saturation -> TestProfile)

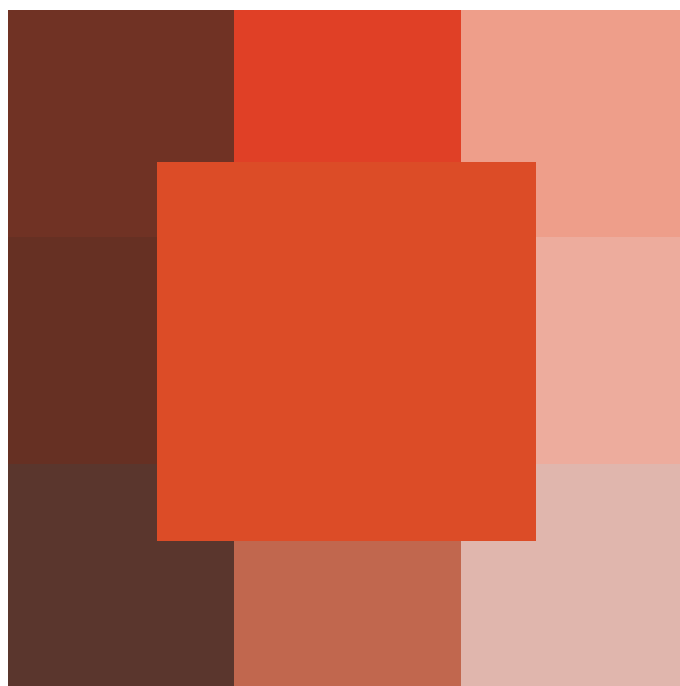
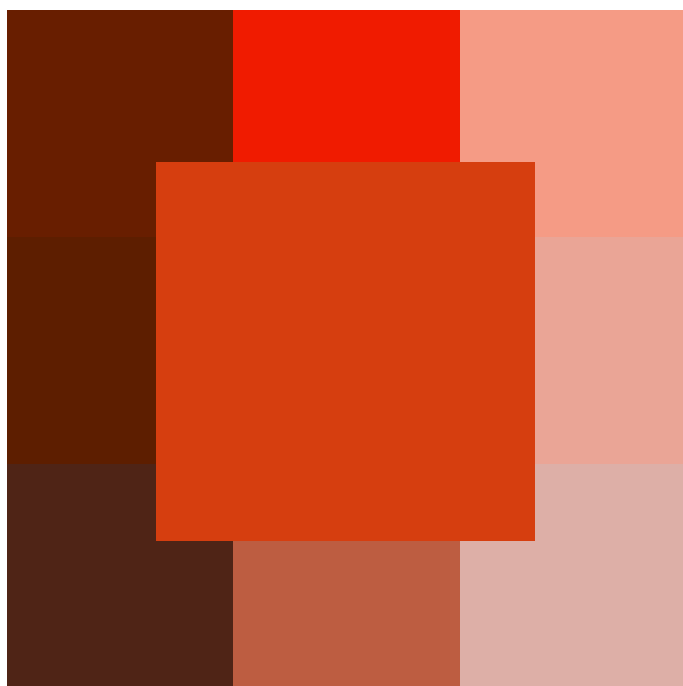


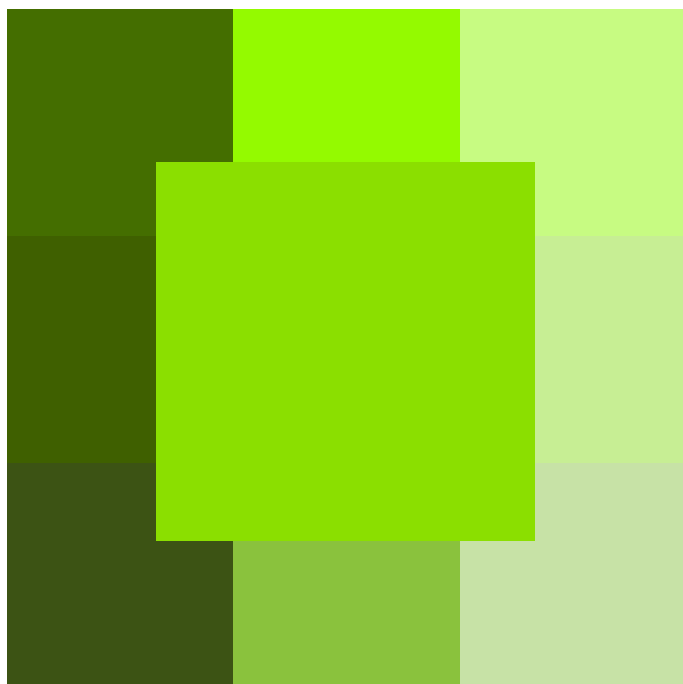
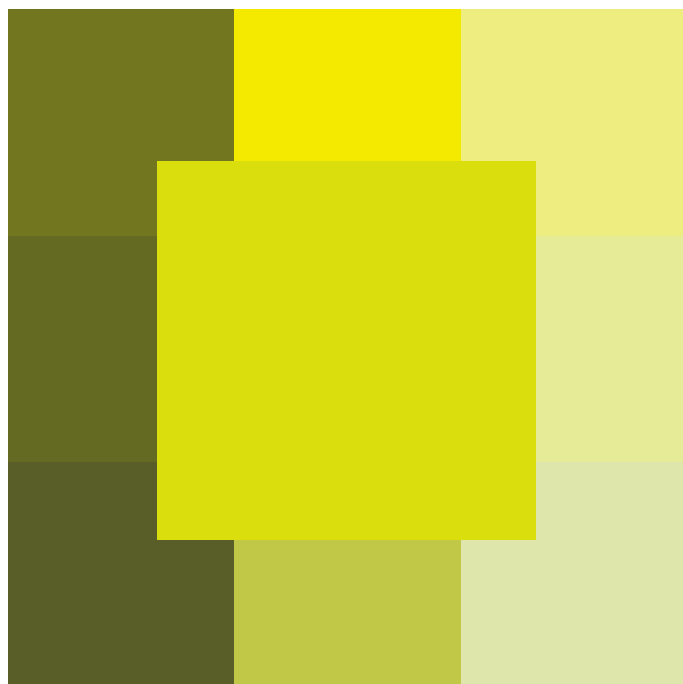
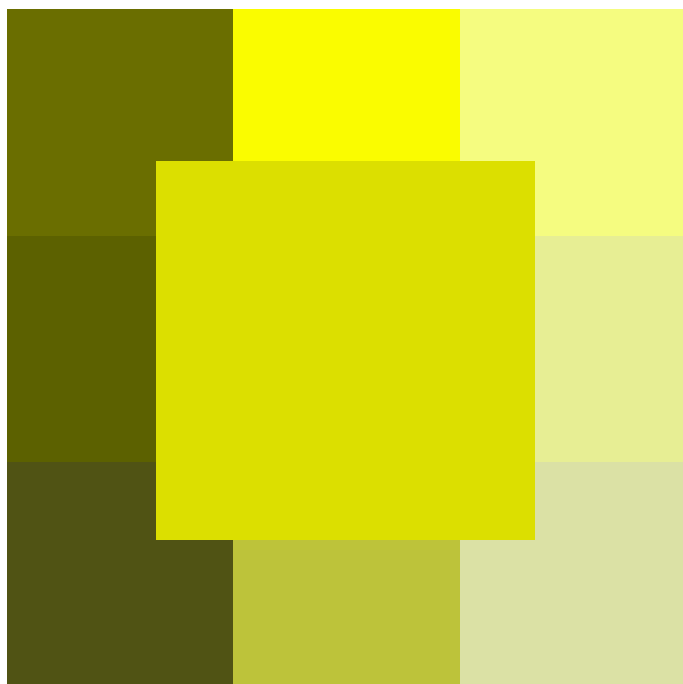
Samples (Saturation)

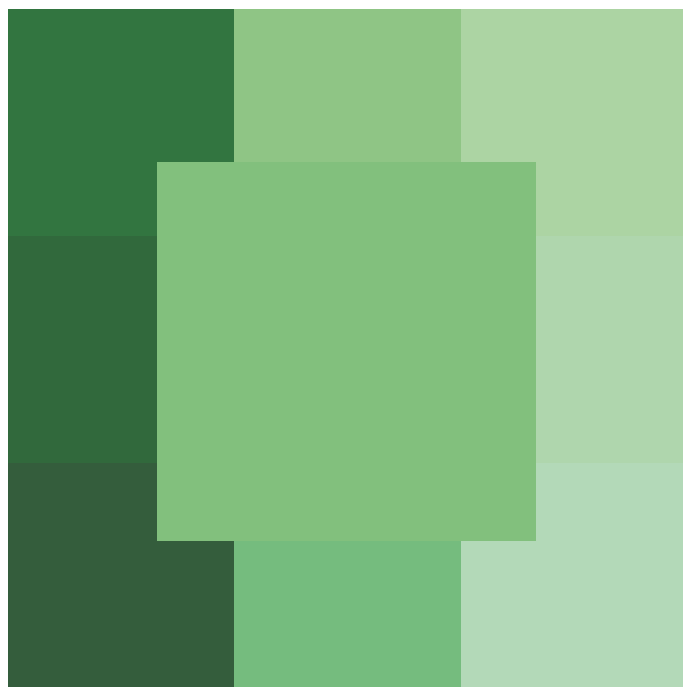
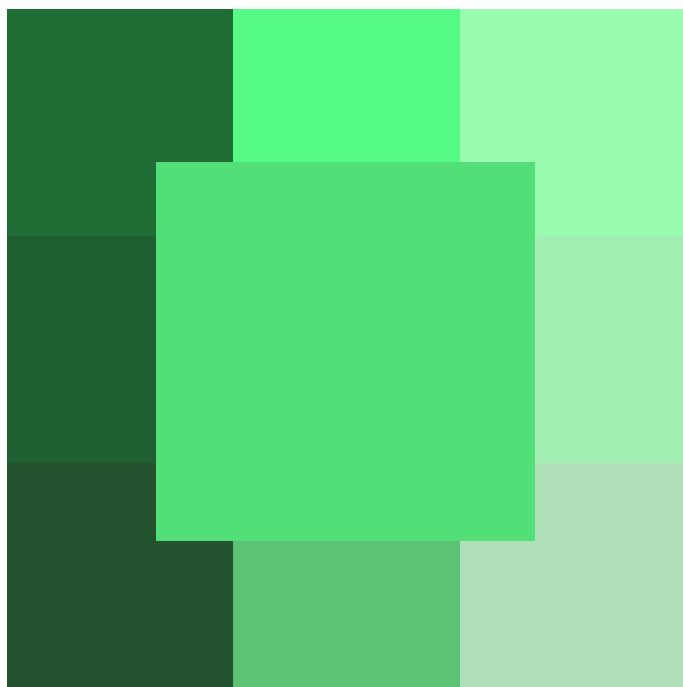
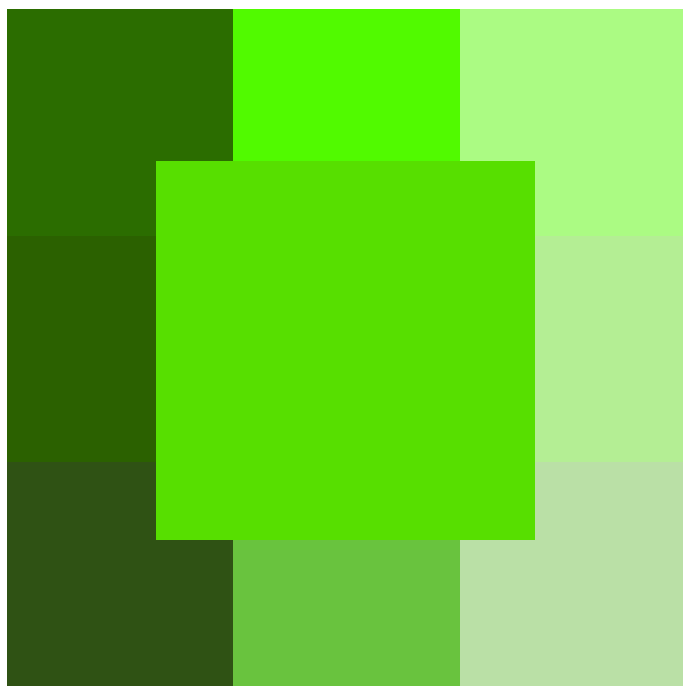
Black	96 / 61 / 45 / 98
White	0 / 0 / 0 / 0
Red	0 / 88 / 94 / 0
Green	70 / 0 / 90 / 0
Blue	94 / 52 / 0 / 1
Cyan	73 / 0 / 23 / 0
Magenta	4 / 80 / 2 / 0
Yellow	3 / 1 / 95 / 0
Cyan Light	54 / 0 / 16 / 0
Magenta Light	3 / 57 / 3 / 0
Yellow Light	4 / 1 / 58 / 0

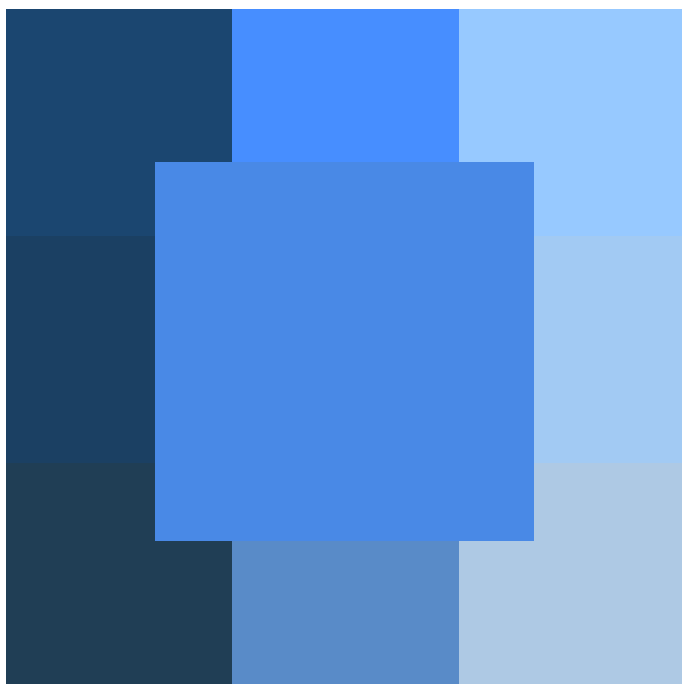
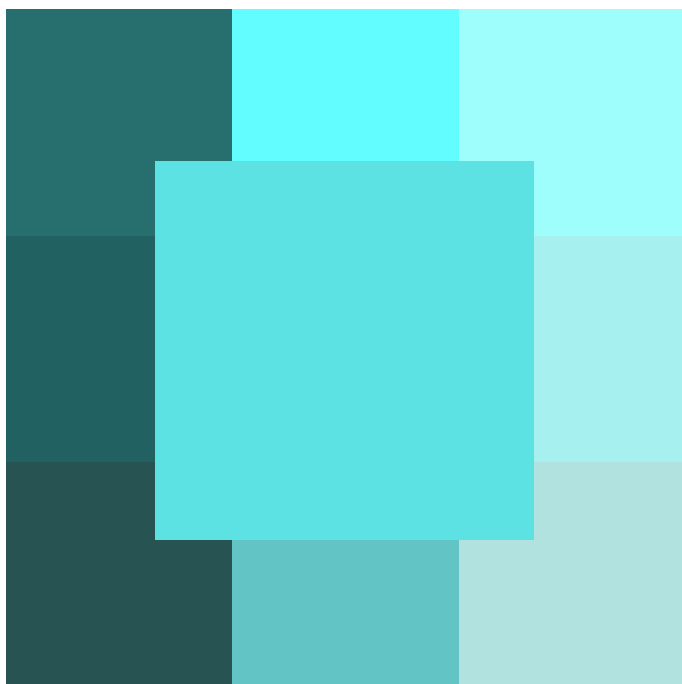
7. Hue Samples

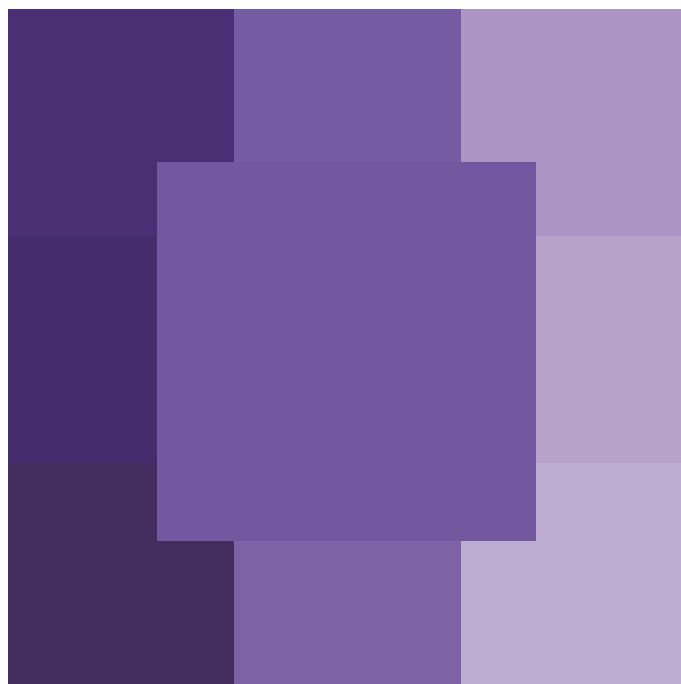
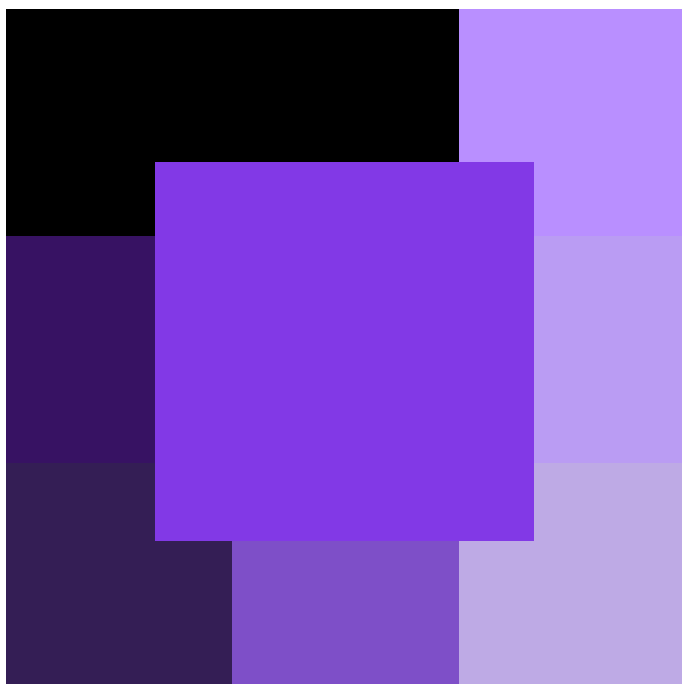
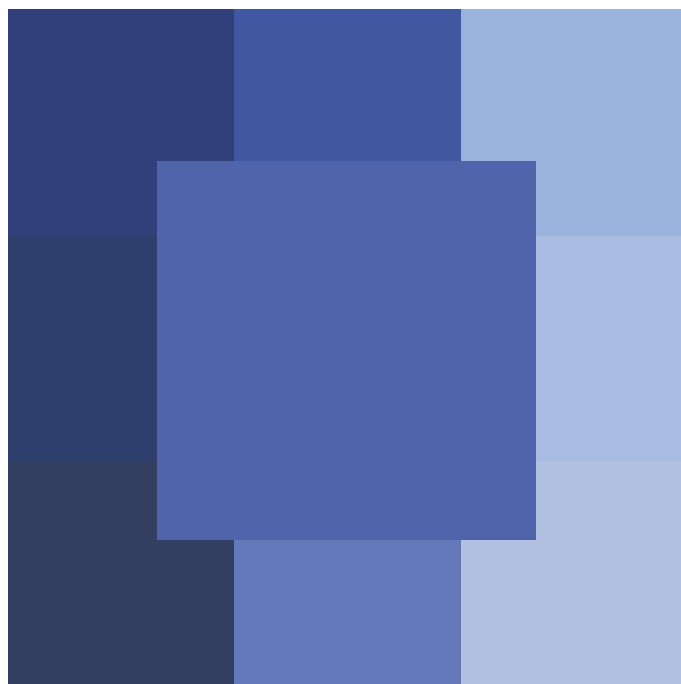
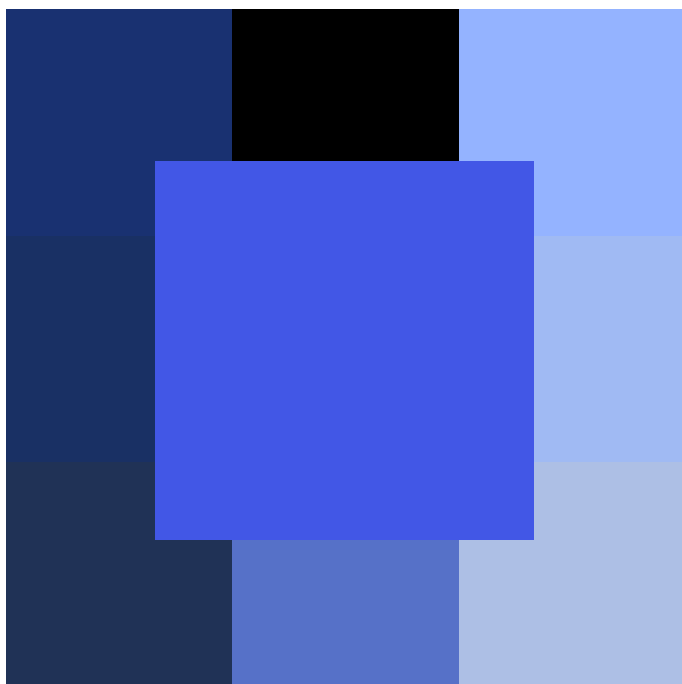
On the left side you see the original colors, on the right side the (perceptual) converted colors.

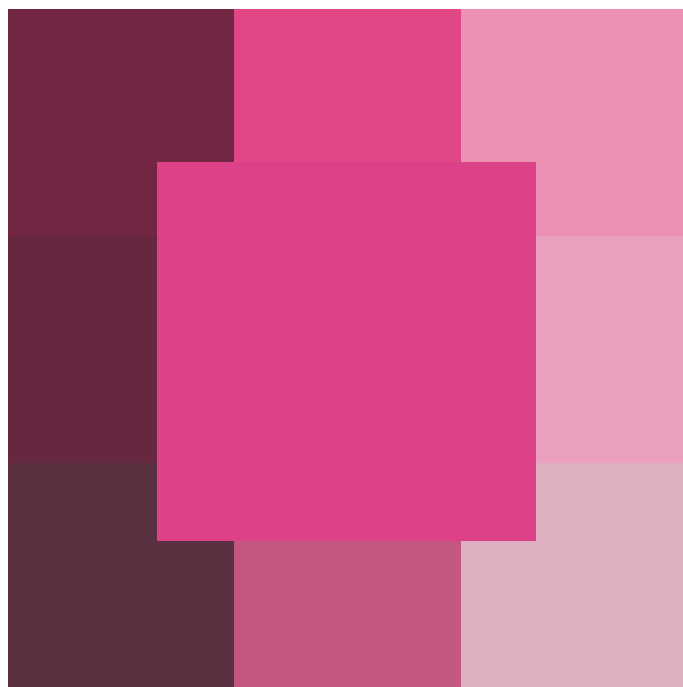
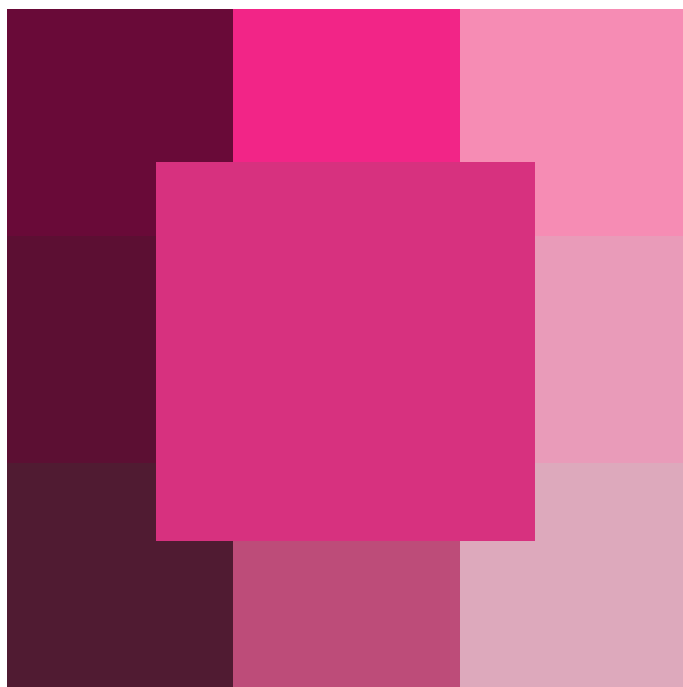
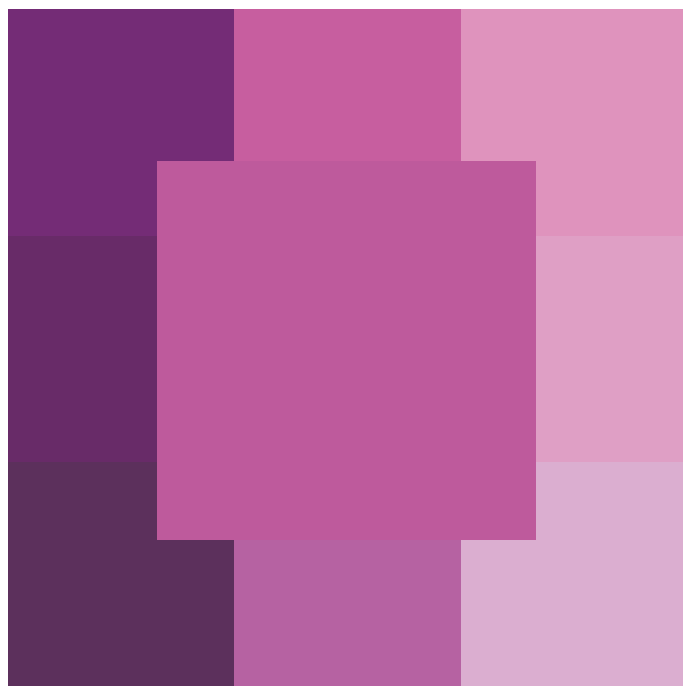
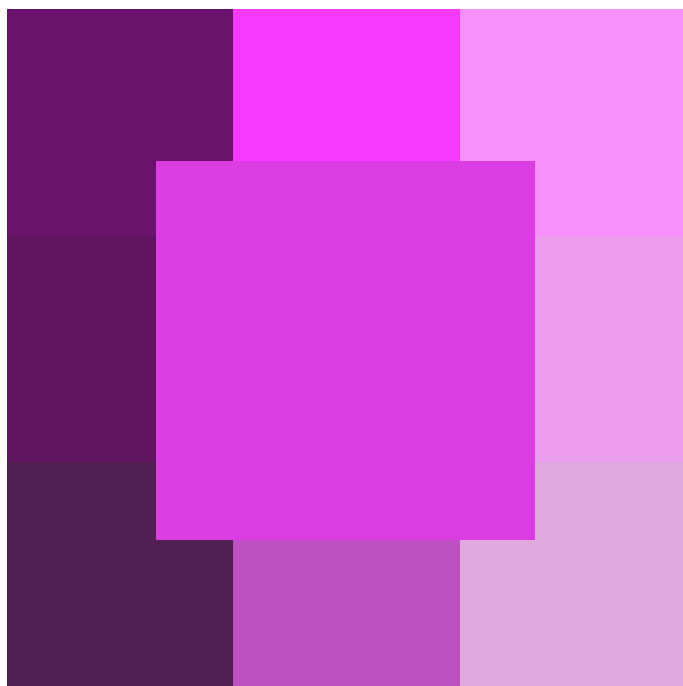








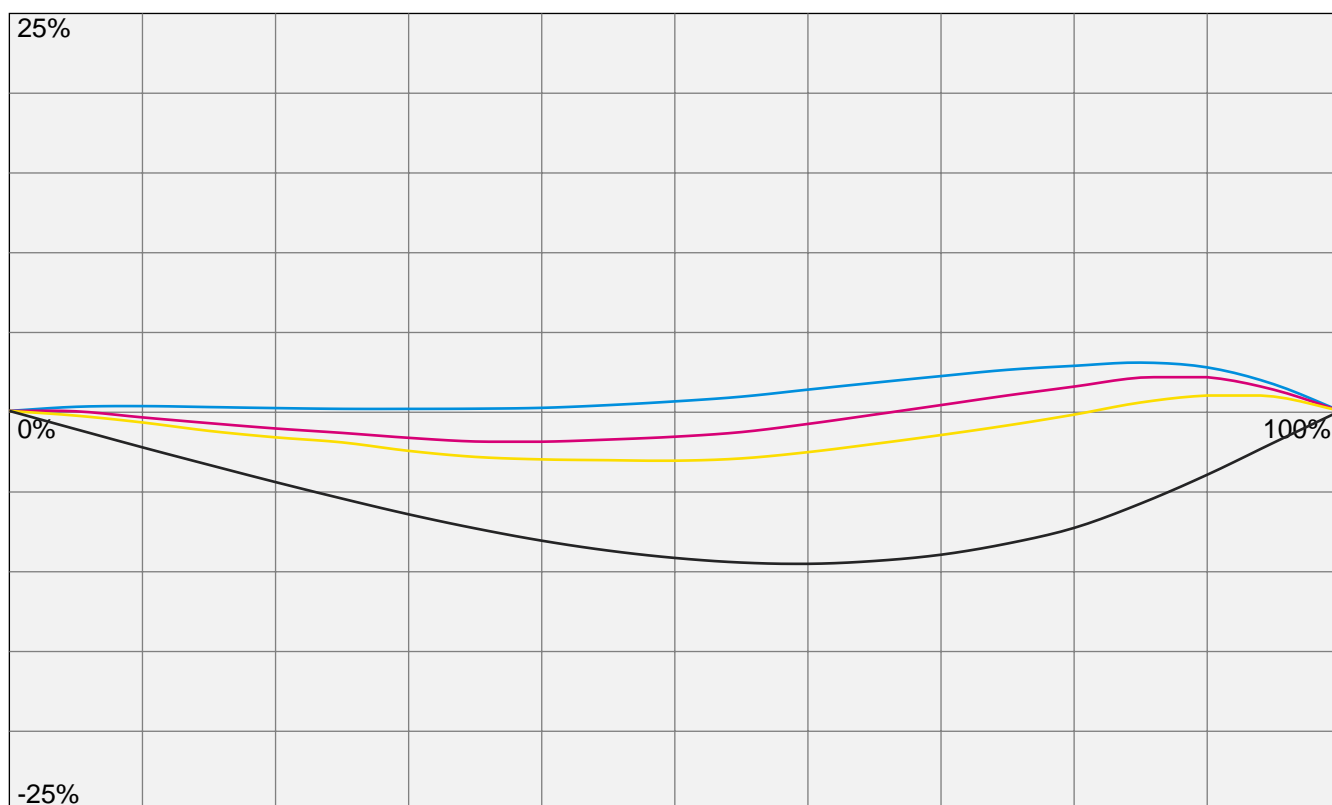




8. Linearity

Note: The dot gain cannot be estimated seriously from colorimetric data, therefore we display the deltaE-76 based deviation from linear primaries. Unlike density curves a dot gain is not desirably for colorimetric curves. The colorimetry respects visual distances better than density.

Colorimetric Linearity: The diagram shows the colorimetric linearity of the primaries. Flat curves indicate that the deltaE to white and solid color is proportional.



Cyan

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.08	0.15	0.20	0.24	0.26	0.29	0.30	0.24	0.18	0.13	0.13	0.14	0.19

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	0.36	0.59	0.89	1.33	1.76	2.18	2.57	2.82	3.02	2.72	1.67

Magenta

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.04	0.06	0.06	0.03	-0.02	-0.17	-0.41	-0.76	-1.10	-1.37	-1.68	-1.91	-1.93

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	-1.79	-1.61	-1.32	-0.81	-0.23	0.36	0.97	1.52	2.08	2.11	1.33

Yellow

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	-0.04	-0.09	-0.15	-0.22	-0.29	-0.46	-0.72	-1.25	-1.65	-1.97	-2.50	-2.87	-3.03

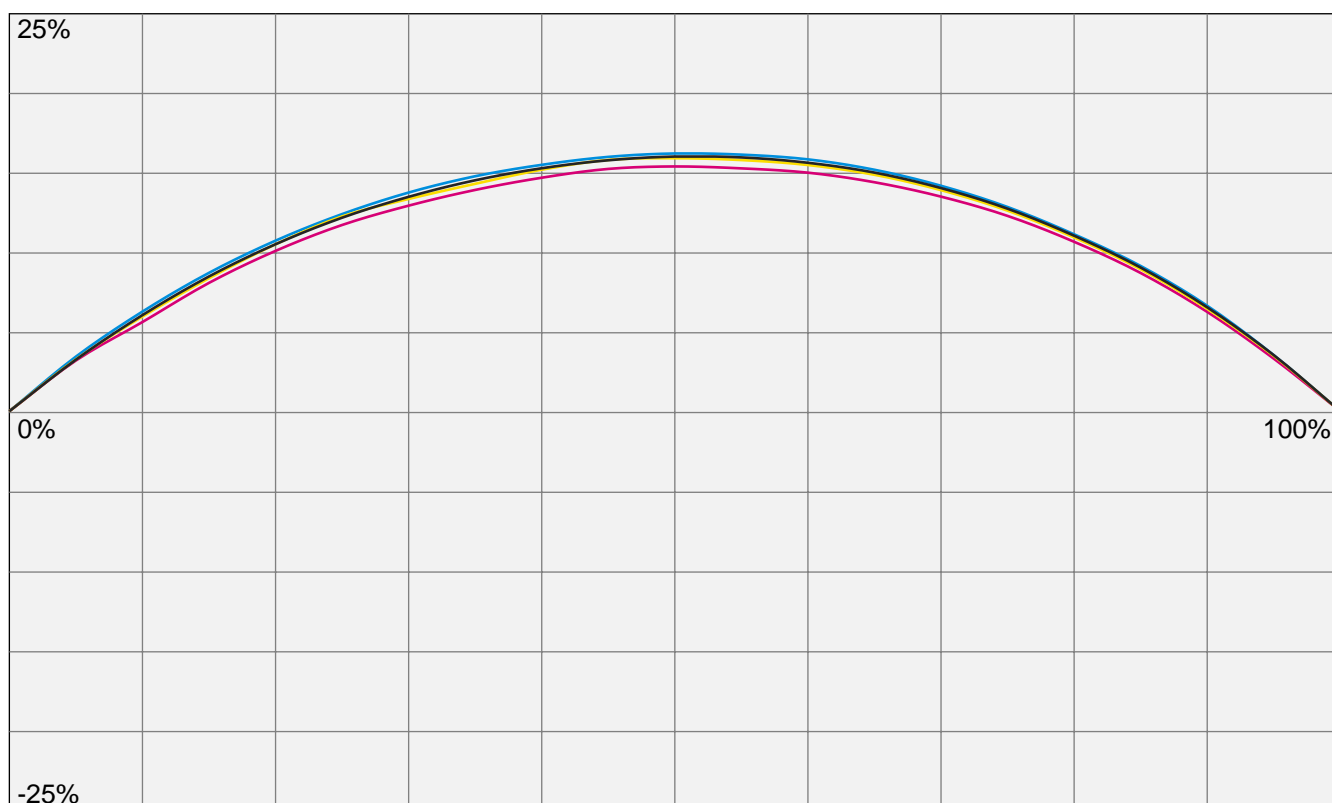
Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	-3.08	-3.11	-2.97	-2.58	-2.06	-1.51	-0.91	-0.23	0.53	0.96	0.90

Black

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	-0.23	-0.46	-0.68	-0.91	-1.14	-1.60	-2.28	-3.37	-4.45	-5.48	-6.46	-7.34	-8.11

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	-8.73	-9.19	-9.47	-9.56	-9.38	-8.98	-8.28	-7.31	-5.79	-3.99	-1.98

Dot-Gain (CIE-based): The diagram shows the dot gain based on the XYZ data of the primaries. Note: Often these curves match the density based dot gain curves very good.



Cyan

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.76	1.48	2.17	2.81	3.41	4.56	6.23	8.65	10.66	12.32	13.66	14.68	15.39

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	15.89	16.10	16.03	15.73	15.08	14.08	12.76	11.05	9.07	6.59	3.50

Magenta

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.73	1.42	2.06	2.64	3.17	4.13	5.57	8.02	10.02	11.63	12.84	13.82	14.59

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	15.14	15.29	15.17	14.90	14.31	13.41	12.20	10.59	8.63	6.20	3.28

Yellow

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.71	1.39	2.04	2.65	3.24	4.33	5.91	8.31	10.43	12.17	13.26	14.21	15.09

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	15.70	15.81	15.69	15.38	14.77	13.81	12.53	10.86	8.87	6.40	3.46

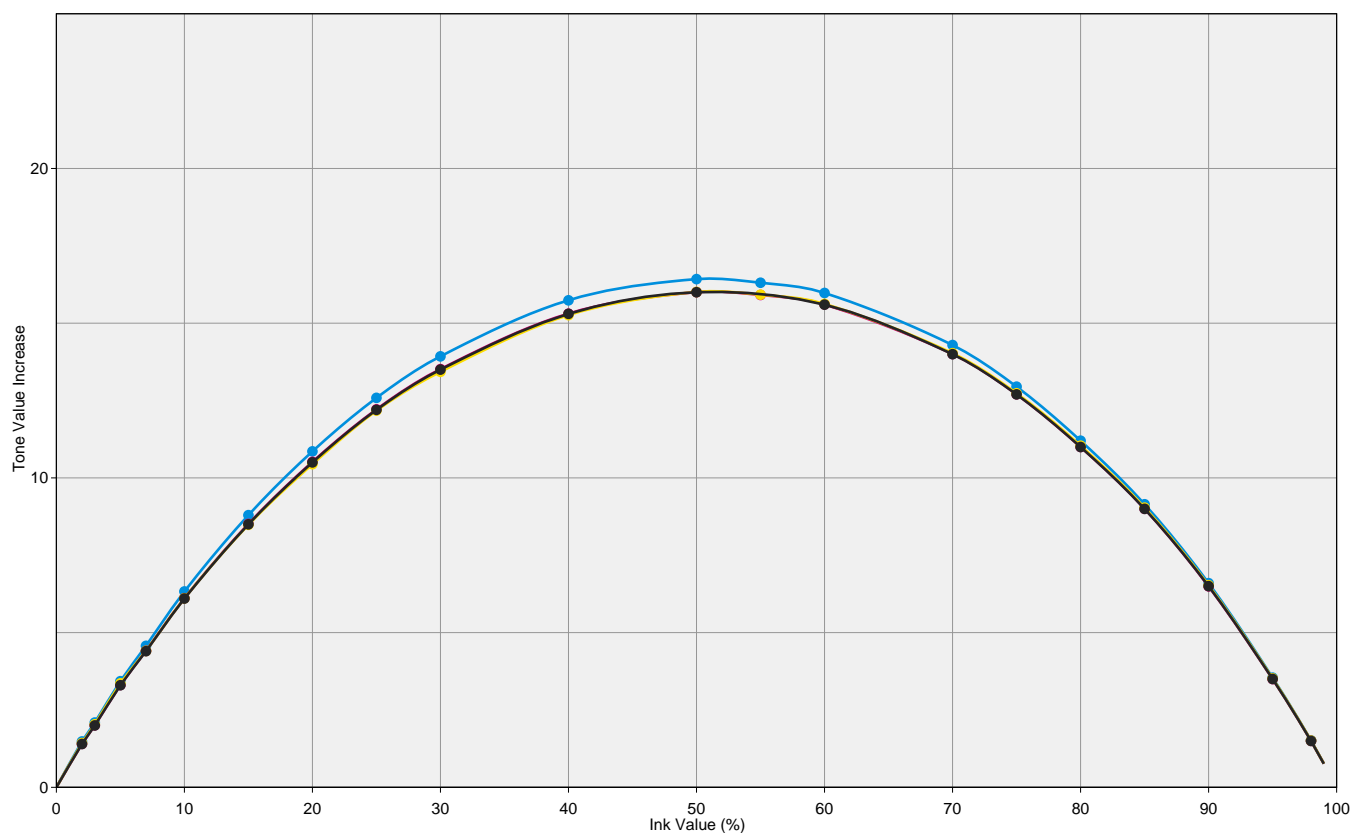
Black

Tone Value	1.00	2.00	3.00	4.00	5.00	7.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
Linearity	0.68	1.35	1.99	2.62	3.22	4.37	6.00	8.42	10.43	12.09	13.39	14.43	15.18

Tone Value	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00
Linearity	15.68	15.91	15.86	15.52	14.91	13.94	12.65	10.97	8.97	6.49	3.50

9. Dot Gain

The diagram shows the dot gain of the primaries. The calculation is based on the spectral data found in the profile.



Cyan

Tone Value	2.00%	3.00%	5.00%	7.00%	10.00%	15.00%	20.00%	25.00%	30.00%	40.00%	50.00%	55.00%	60.00%
Tone Value Increase	1.48	2.09	3.43	4.57	6.33	8.80	10.86	12.59	13.93	15.74	16.42	16.31	15.98

Tone Value	70.00%	75.00%	80.00%	85.00%	90.00%	95.00%	98.00%
Tone Value Increase	14.29	12.95	11.20	9.15	6.60	3.54	1.51

Magenta

Tone Value	2.00%	3.00%	5.00%	7.00%	10.00%	15.00%	20.00%	25.00%	30.00%	40.00%	50.00%	55.00%	60.00%
Tone Value Increase	1.40	2.00	3.31	4.41	6.11	8.51	10.52	12.21	13.51	15.31	16.00	15.91	15.60

Tone Value	70.00%	75.00%	80.00%	85.00%	90.00%	95.00%	98.00%
Tone Value Increase	14.00	12.70	11.00	9.00	6.50	3.50	1.50

Yellow

Tone Value	2.00%	3.00%	5.00%	7.00%	10.00%	15.00%	20.00%	25.00%	30.00%	40.00%	50.00%	55.00%	60.00%
Tone Value Increase	1.43	2.04	3.36	4.41	6.11	8.48	10.44	12.17	13.43	15.26	16.01	15.92	15.62

Tone Value	70.00%	75.00%	80.00%	85.00%	90.00%	95.00%	98.00%
Tone Value Increase	14.03	12.73	11.04	9.04	6.53	3.52	1.51

Black

Tone Value	2.00%	3.00%	5.00%	7.00%	10.00%	15.00%	20.00%	25.00%	30.00%	40.00%	50.00%	60.00%	70.00%
Tone Value Increase	1.40	2.00	3.30	4.40	6.10	8.50	10.50	12.20	13.50	15.30	16.00	15.60	14.00

Tone Value	75.00%	80.00%	85.00%	90.00%	95.00%	98.00%
Tone Value Increase	12.70	11.00	9.00	6.50	3.50	1.50