Profile-Test

2012-1-30

Profile Information

Name	EP78_PWM_MM_lwc90_0807_310
Path	/Library/Application Support/Adobe/.../EP78_PWM_MM_lwc90_0807_310.icc
Size	1062672
Version	2.4
Class	prtr
ColorSpace	CMYK
PCS	Lab
Date	2007-08-23 18:48:47
Rendering	0
Creator	LOGO

1. Profile Statistic

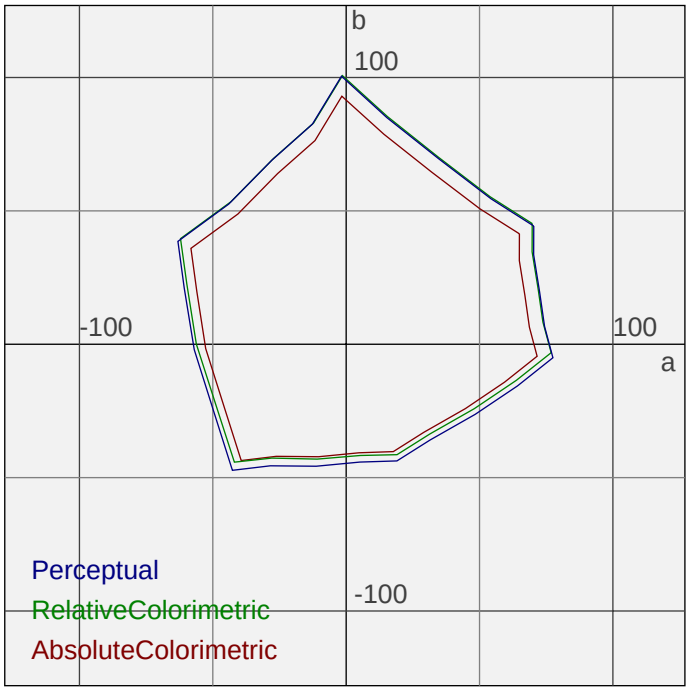
The statistic tests the profile integrity and some profile properties.
The profile integrity indicates how precise a profile converts between the color spaces. The integrity values show as average and maximum deviations.
The DCS to PCS statistic shows how precise the profile matches the measurement data 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.

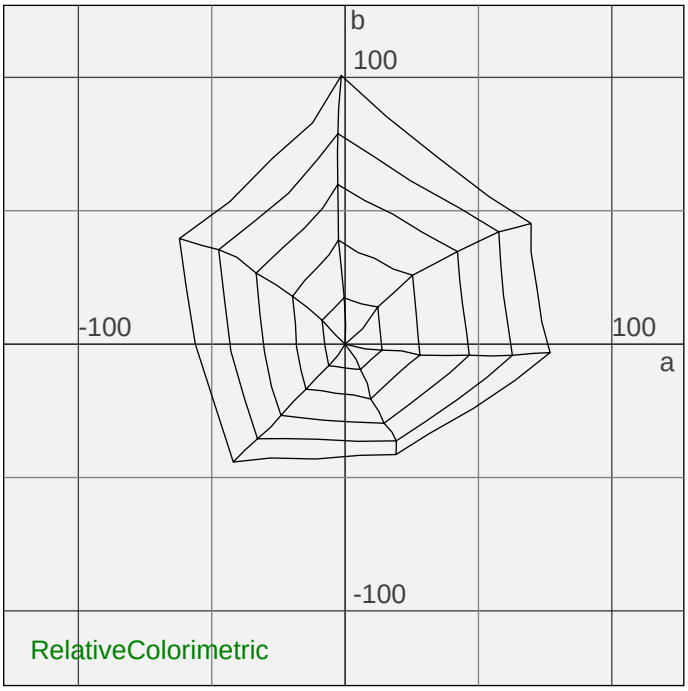
Integrity (DCS) perceptual	1.3/8.8 (CMYK)
Integrity (DCS) relative colorimetric	1.4/7.4 (CMYK)
Integrity (DCS) saturation	1.3/8.8 (CMYK)
Integrity (PCS) perceptual	1.3/8.4 (Lab)
Integrity (PCS) relative colorimetric	1.2/12.7 (Lab)
Integrity (PCS) saturation	1.3/8.4 (Lab)
Precision (DCS-to-PCS) absolute colorimetric	0.4/2.0 (Lab)
BlackPoint (PCS-to-DCS) perceptual	81.28 69.82 63.72 94.79 (CMYK) sum=309.6
BlackPoint (PCS-to-DCS) relative colorimetric	83.64 69.95 56.96 90.85 (CMYK) sum=301.4
BlackPoint (PCS-to-PCS) perceptual	17.55 0.10 0.87 (Lab)
BlackPoint (PCS-to-PCS) relative colorimetric	17.90 0.32 -0.42 (Lab)
WhitePoint (PCS-to-DCS) perceptual	0.25 0.03 0.08 0.00 (CMYK) (Failed)
WhitePoint (PCS-to-DCS) relative colorimetric	0.32 0.06 0.10 0.00 (CMYK) (Failed)
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	92.40 -0.32 -2.58 (Lab)

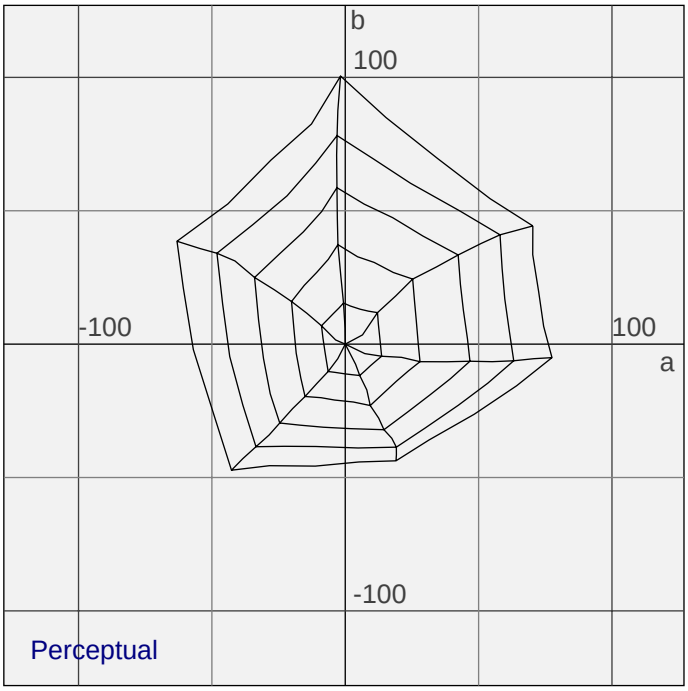
2. Gamut

The gamut plot illustrate 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.

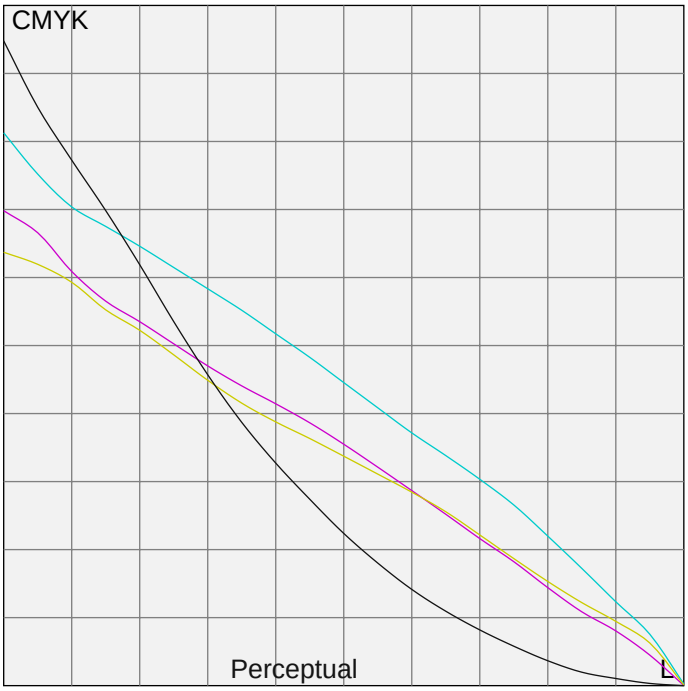


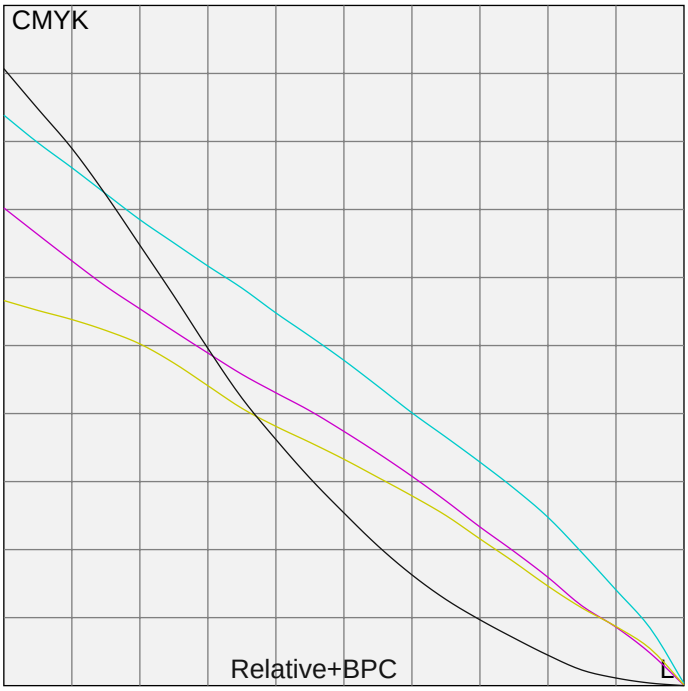


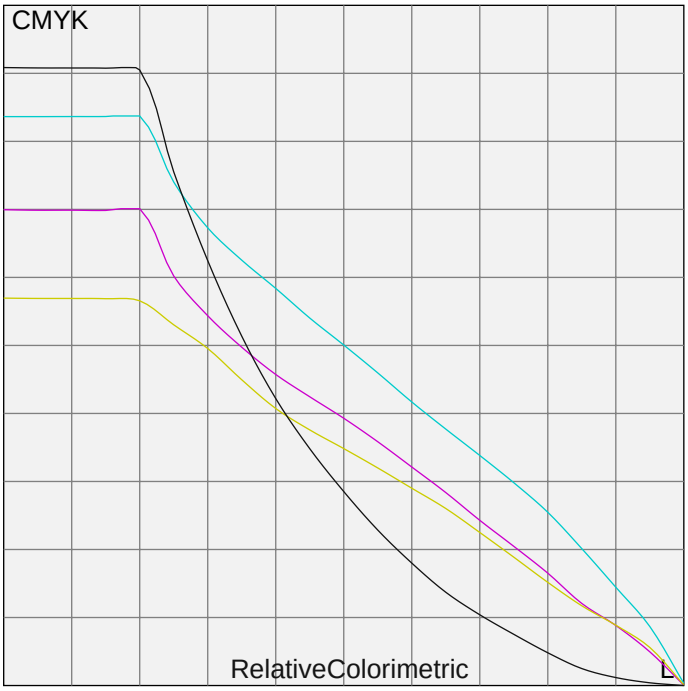


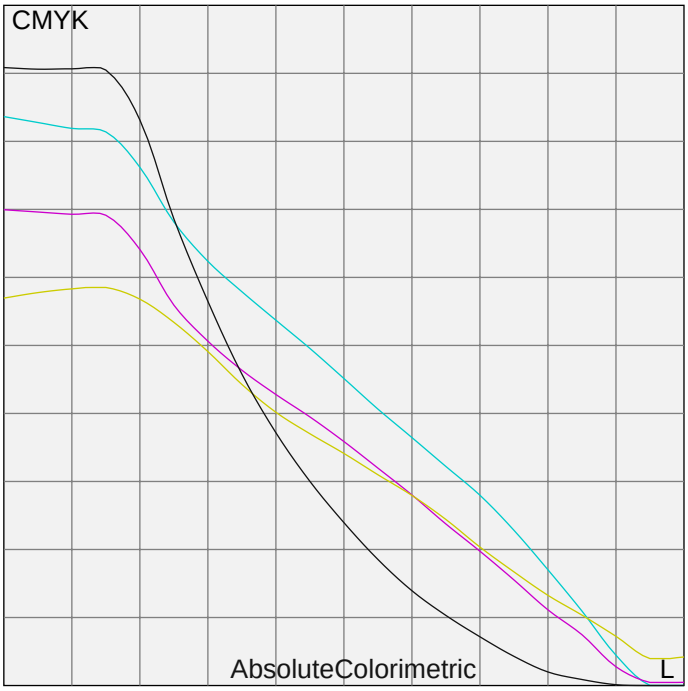
3. Gray Balance

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





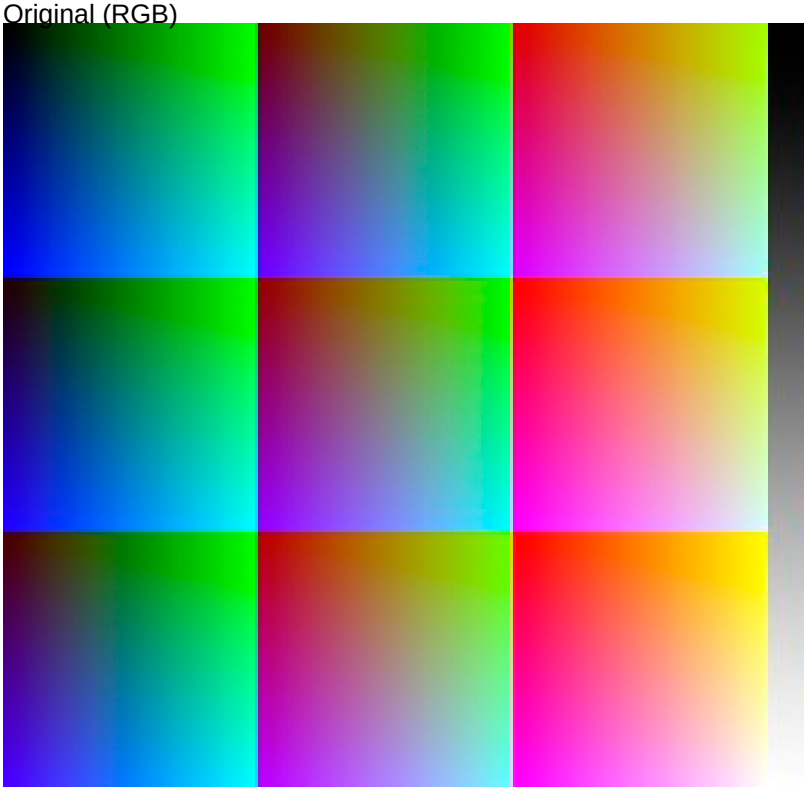




4. Separations

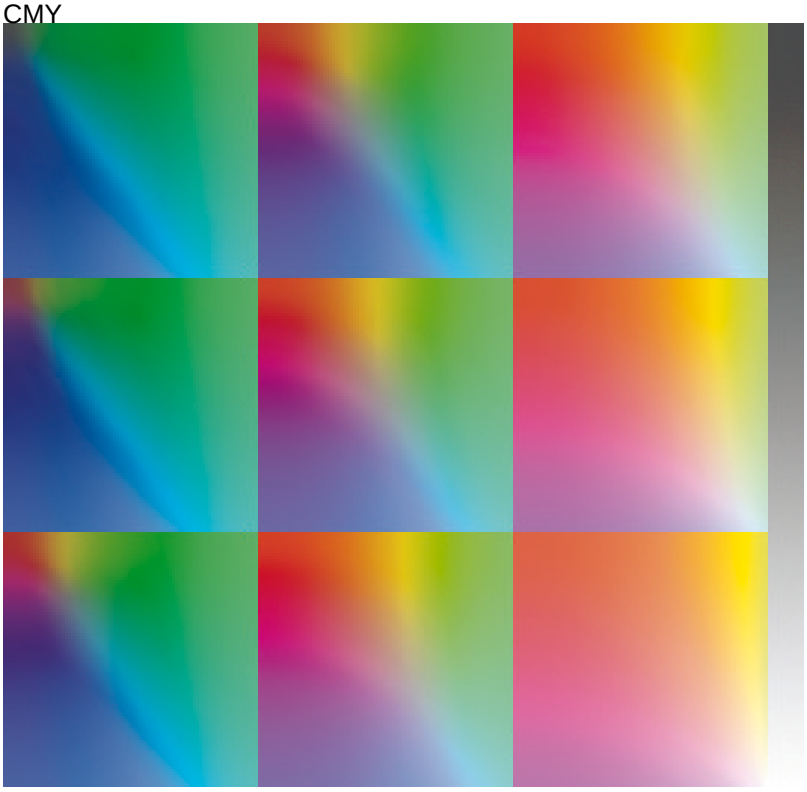
SmoothRGB.tif
Source profile: Adobe RGB (1998)

Original (RGB)

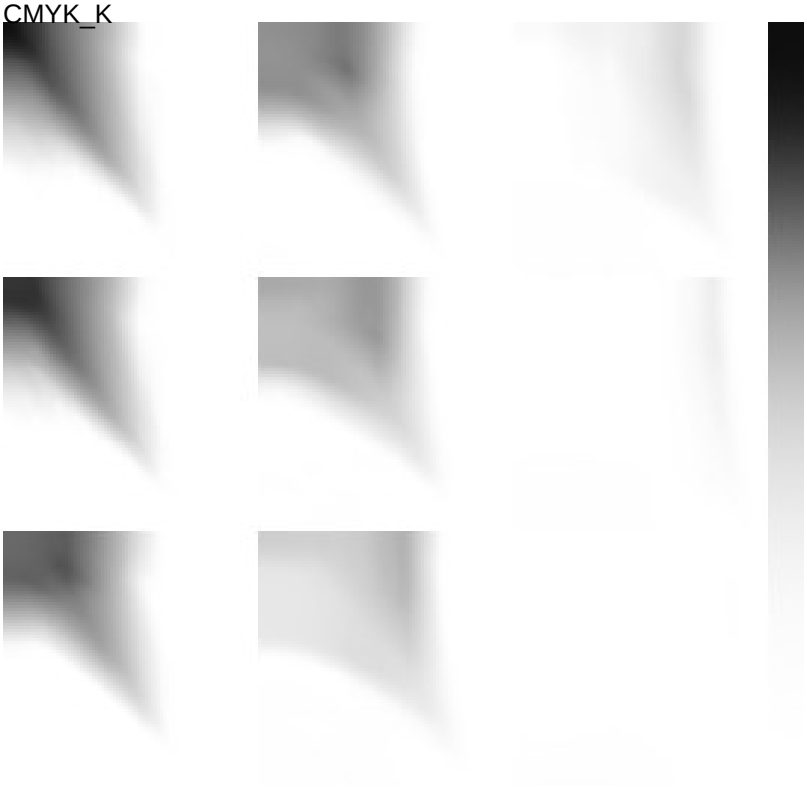


Converted (CMYK)

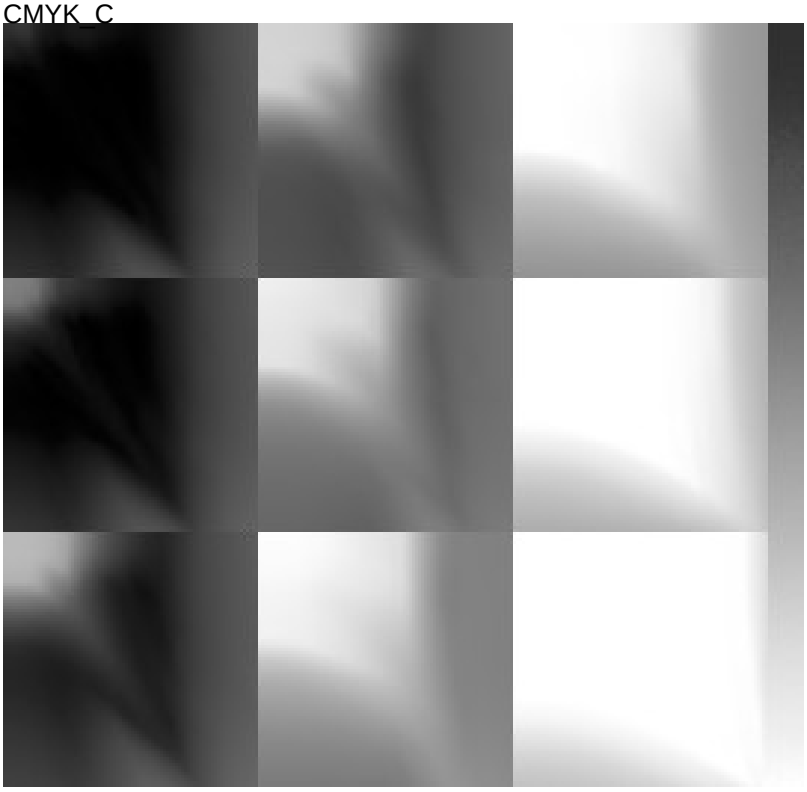
CMY



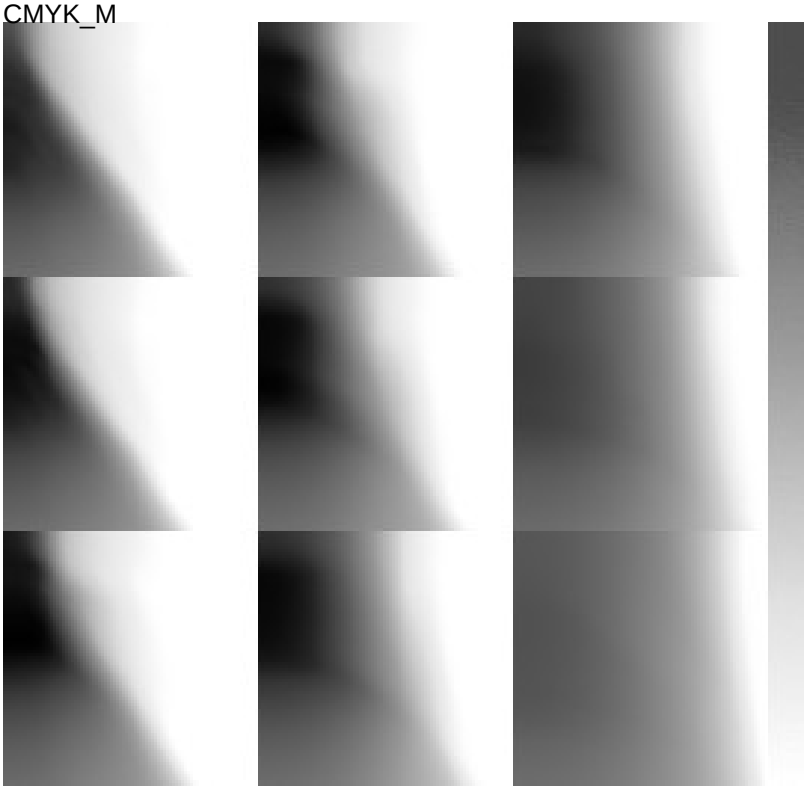
CMYK_K



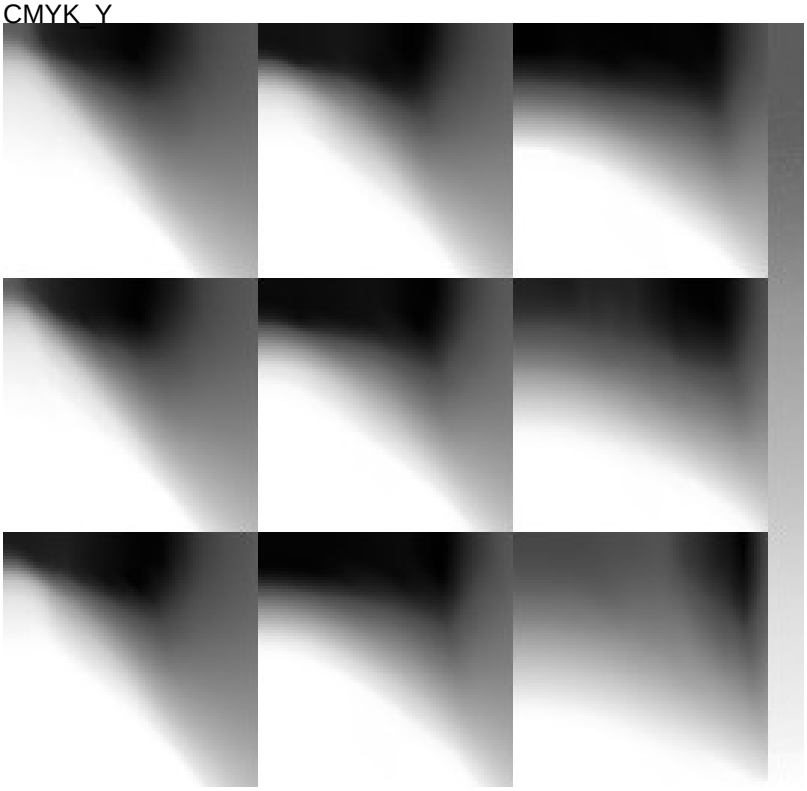
CMYK_C



CMYK_M

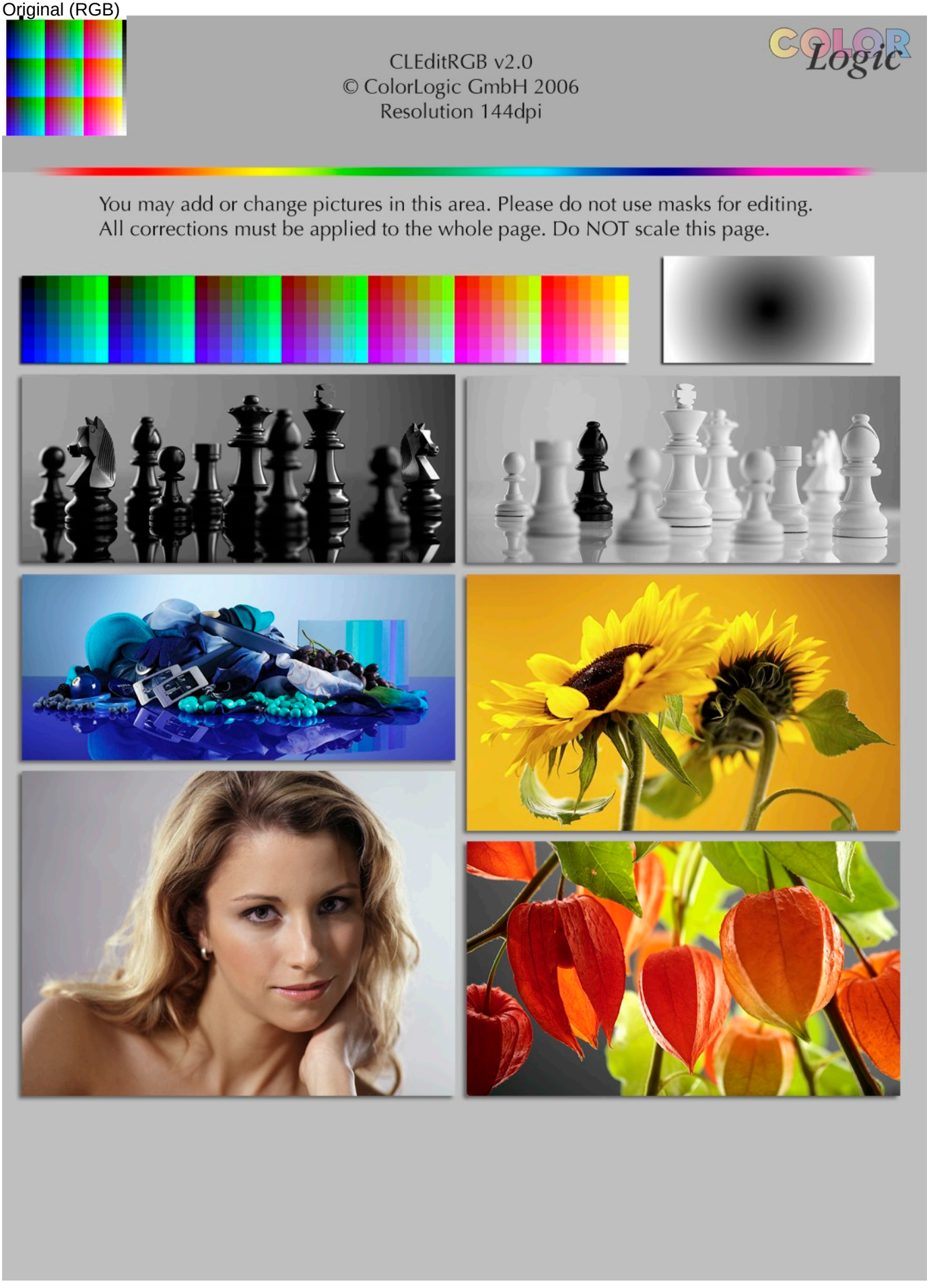


CMYK_Y



CLEditRGB.tif
Source profile: Adobe RGB (1998)

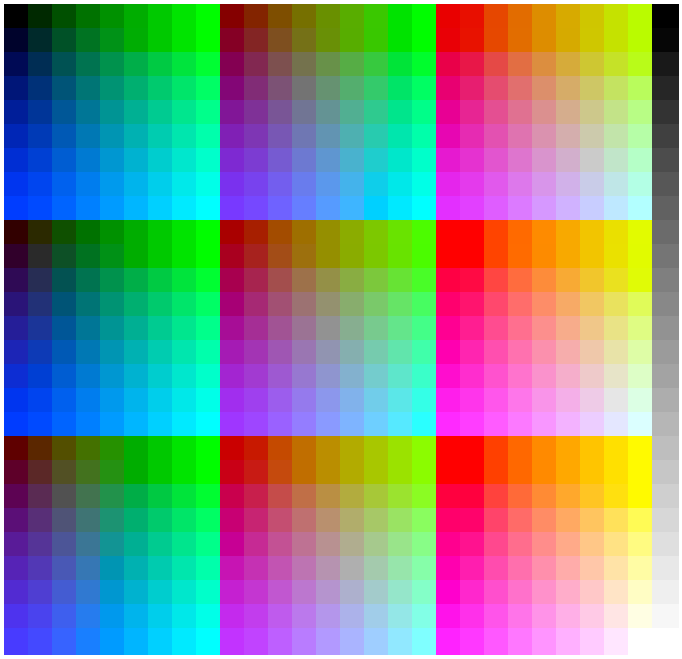
Original (RGB)



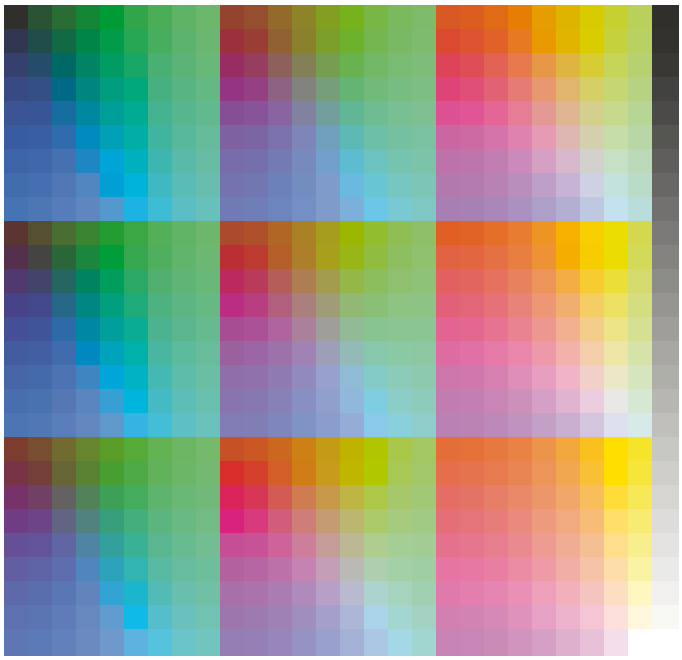
Converted (CMYK)

5. 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)

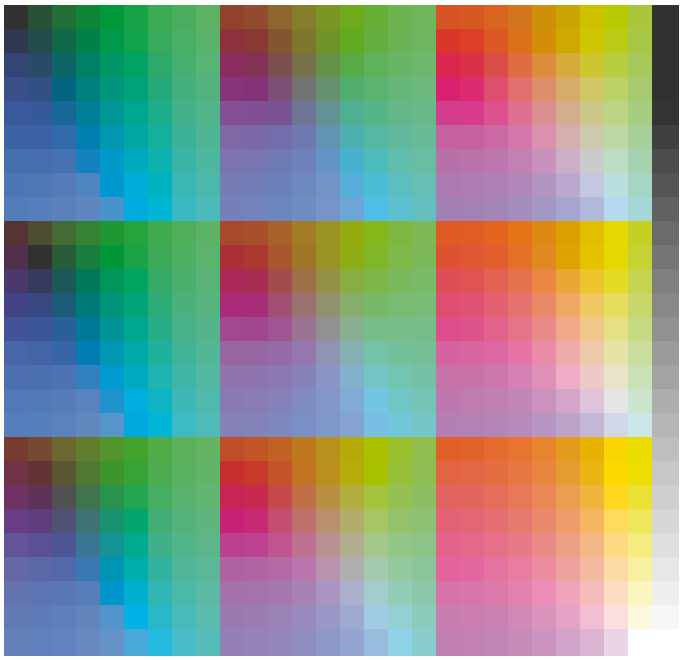


Black Channel (RGB->perceptual->TestProfile)

Samples (Perceptual)

Black	81.3	69.8	63.7	94.8
White	0.2	0.0	0.1	0.0
Red	0.0	65.7	82.0	0.0
Green	67.7	0.0	64.8	0.0
Blue	88.2	54.5	0.0	0.0
Cyan	65.4	0.0	29.1	0.0
Magenta	21.6	56.8	0.1	0.7
Yellow	9.2	0.2	81.4	0.0
Cyan Light	51.7	0.0	22.3	0.0
Magenta Light	14.9	45.5	0.2	0.3
Yellow Light	7.2	0.3	50.9	0.0

Colorimetric (RGB->colorimetric->TestProfile->colorimetric->RGB)

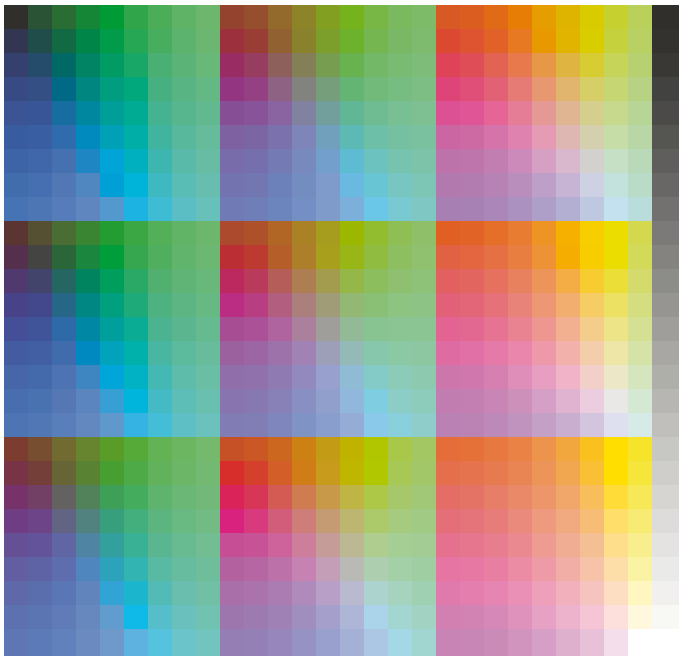


Black Channel (RGB->colorimetric->TestProfile)

Samples (Colorimetric)

Black	83.6	69.9	57.0	90.9
White	0.3	0.1	0.1	0.0
Red	0.0	71.9	94.0	0.0
Green	73.9	0.0	68.1	0.0
Blue	81.4	49.4	0.0	0.0
Cyan	74.4	0.0	29.6	0.0
Magenta	26.0	58.0	0.0	0.3
Yellow	14.6	0.0	93.9	0.0
Cyan Light	59.5	0.0	23.2	0.0
Magenta Light	21.3	49.4	0.0	0.1
Yellow Light	9.2	0.1	55.3	0.0

Colorimetric (RGB->saturation->TestProfile->colorimetric->RGB)



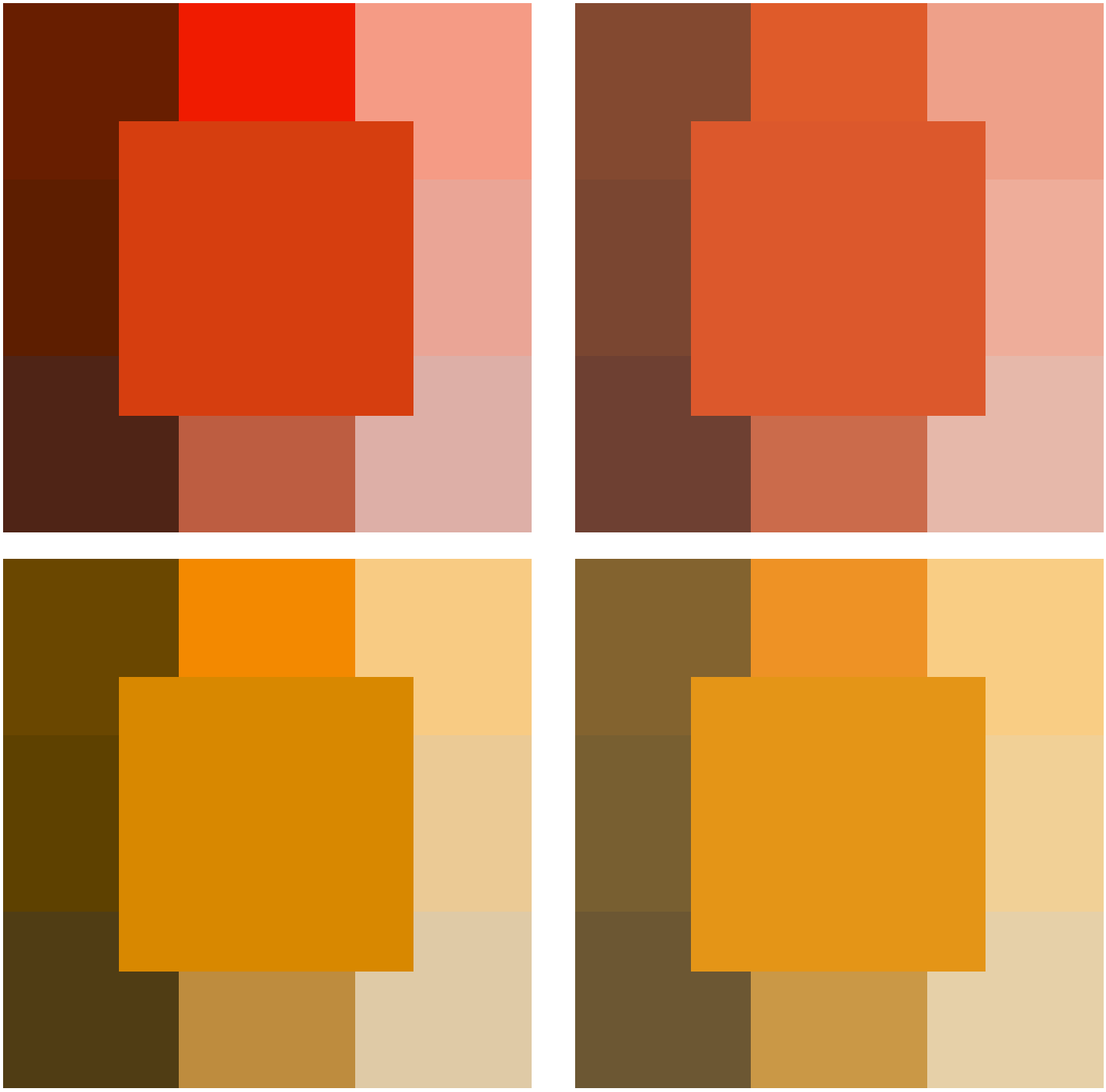
Black Channel (RGB->saturation->TestProfile)

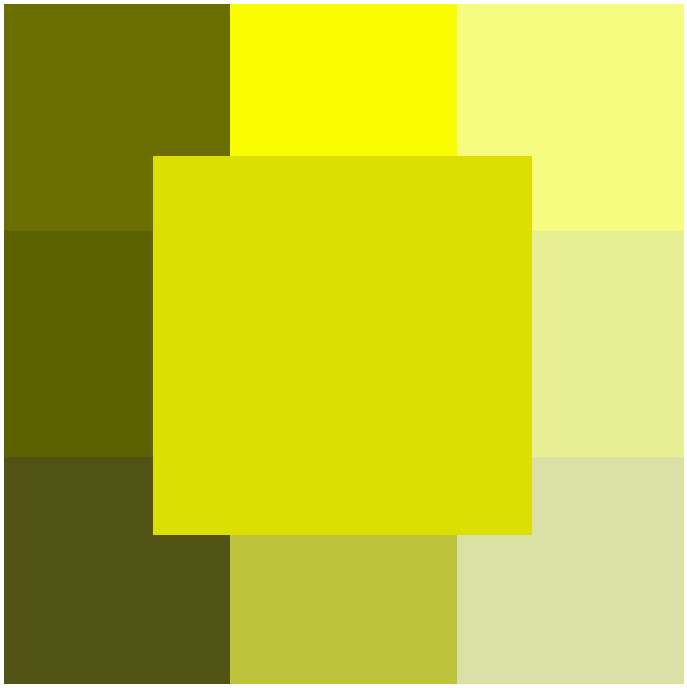
Samples (saturation)

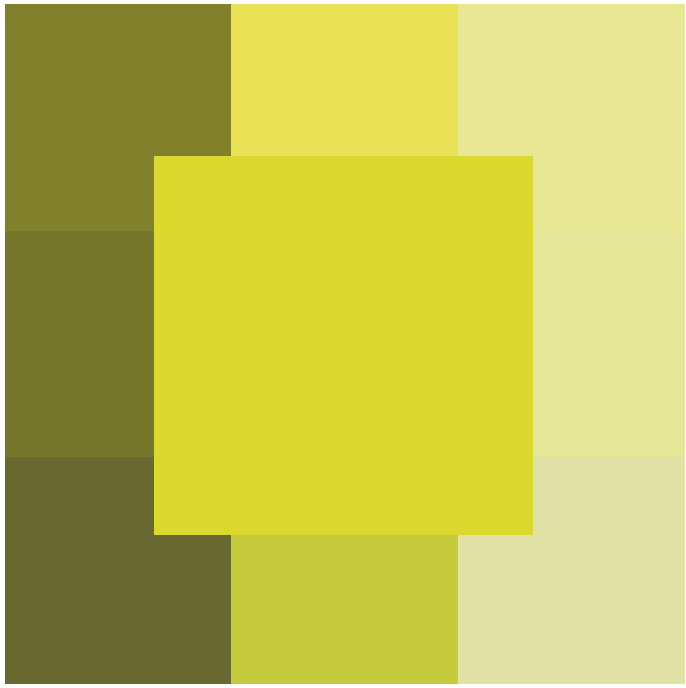
Black	81.3	69.8	63.7	94.8
White	0.2	0.0	0.1	0.0
Red	0.0	65.7	82.0	0.0
Green	67.7	0.0	64.8	0.0
Blue	88.2	54.5	0.0	0.0
Cyan	65.4	0.0	29.1	0.0
Magenta	21.6	56.8	0.1	0.7
Yellow	9.2	0.2	81.4	0.0
Cyan Light	51.7	0.0	22.3	0.0
Magenta Light	14.9	45.5	0.2	0.3
Yellow Light	7.2	0.3	50.9	0.0

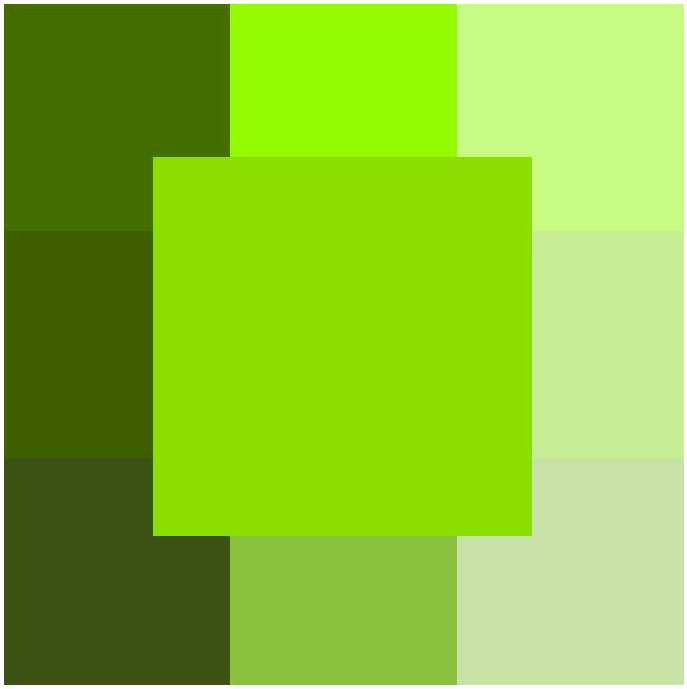
6. Hue Samples

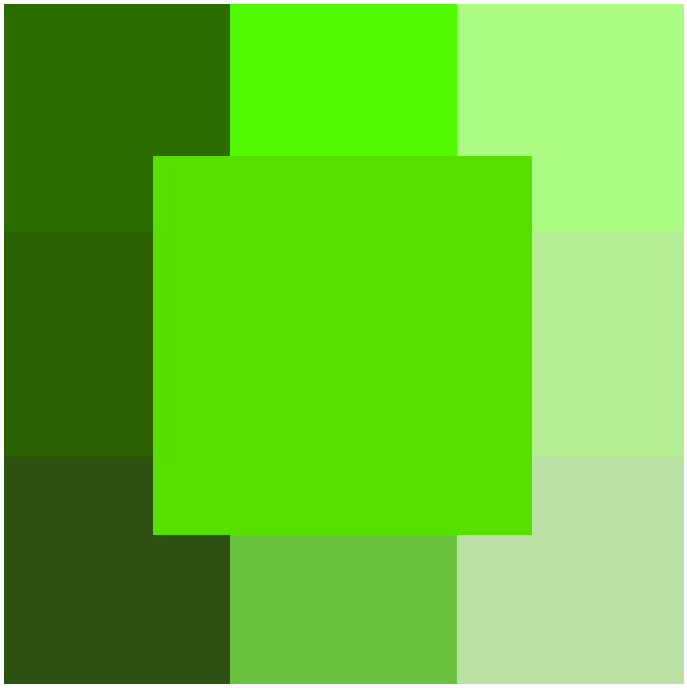
On the left side you see the original colors, on the right side the (perceptual) converted colors.

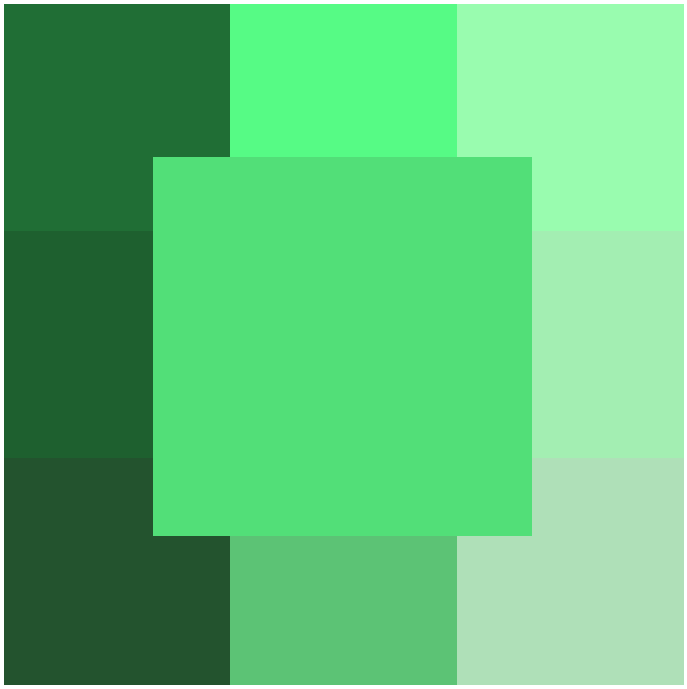


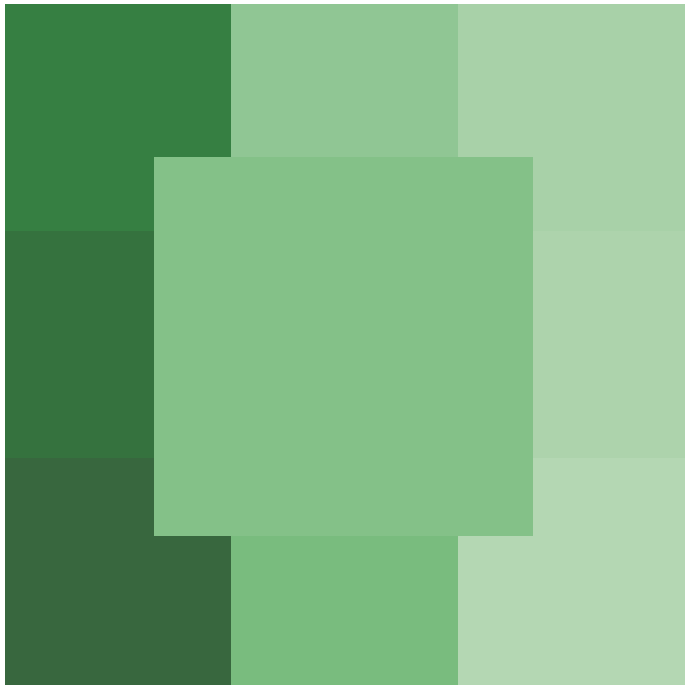


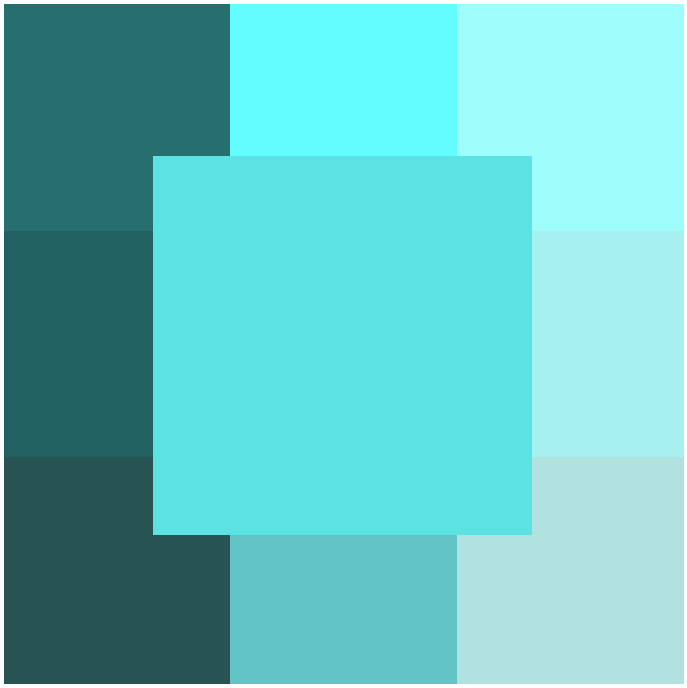


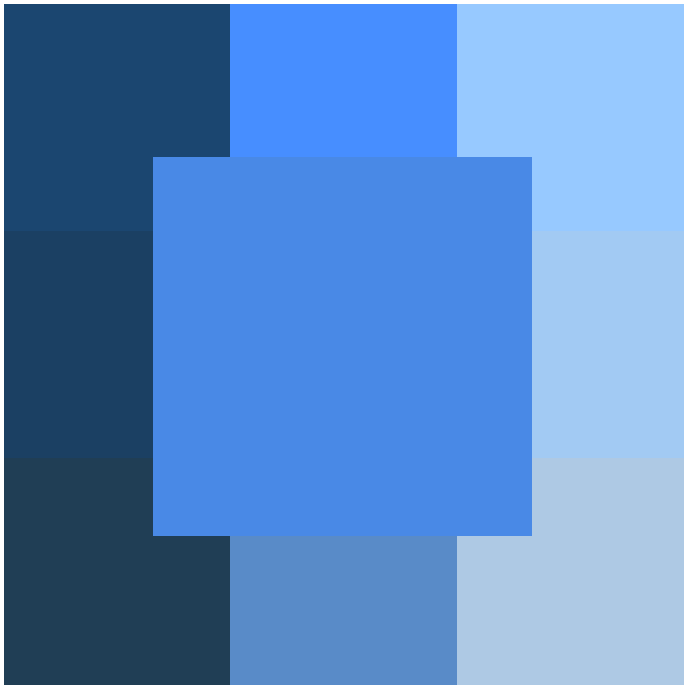


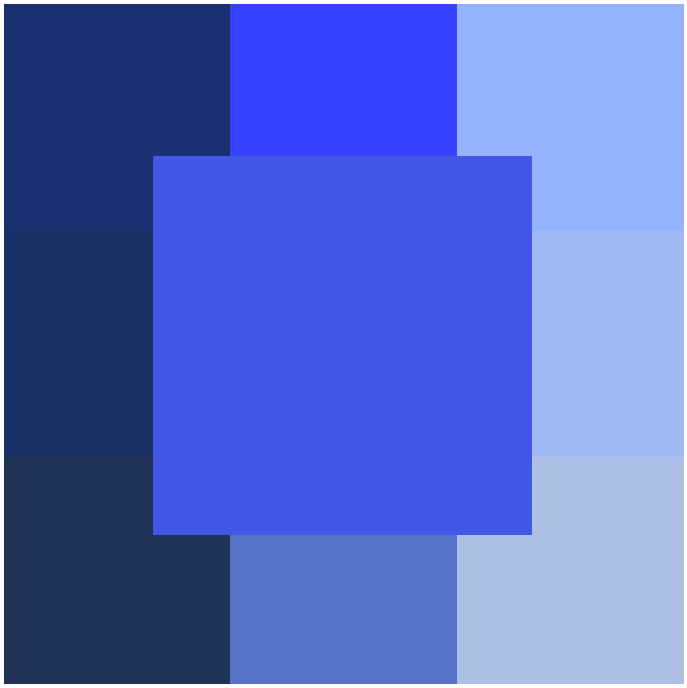


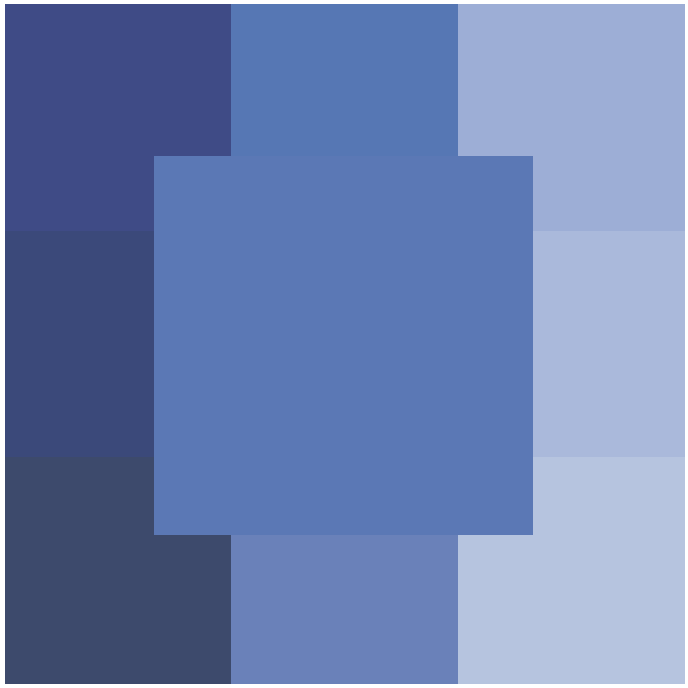


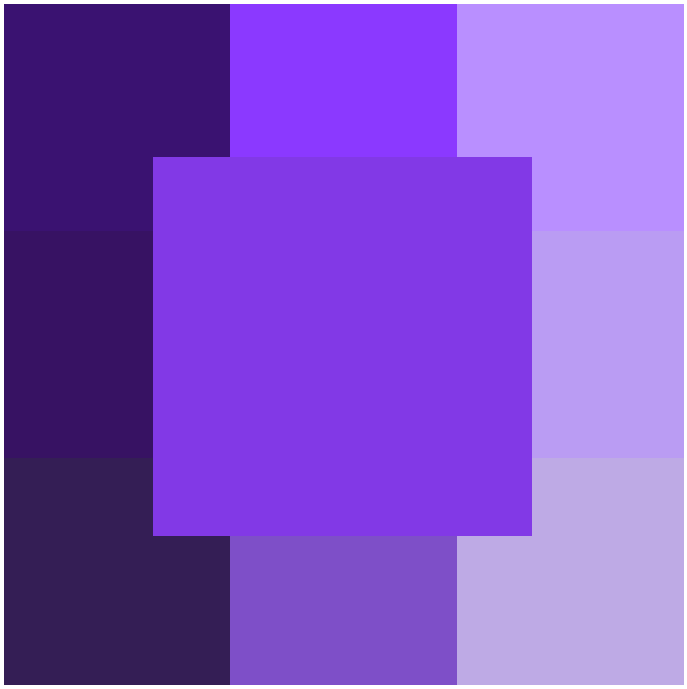


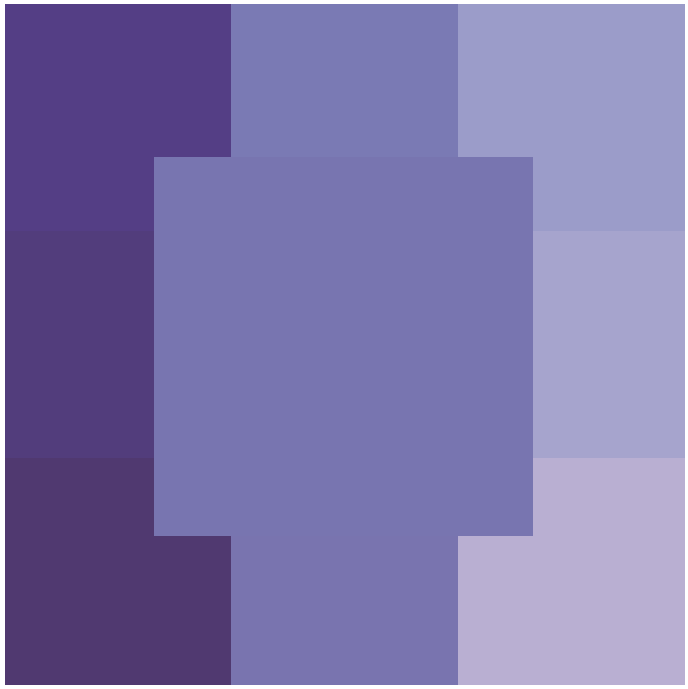


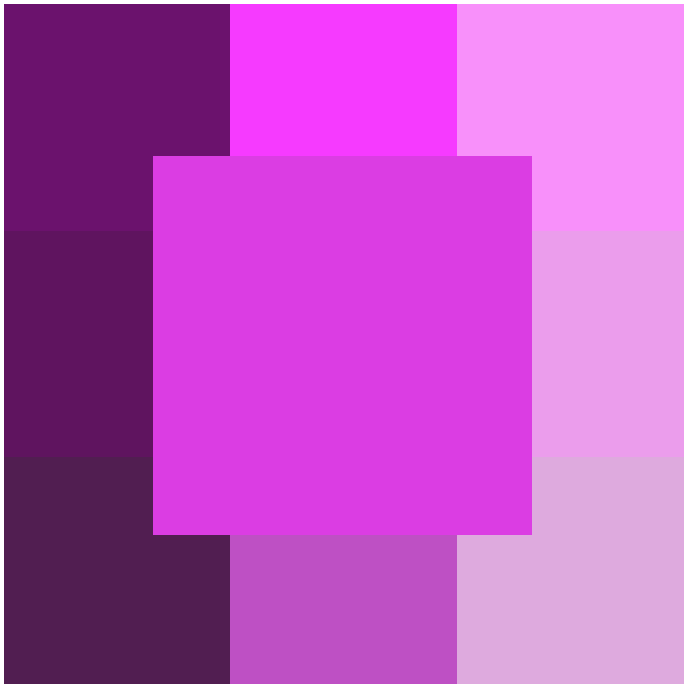


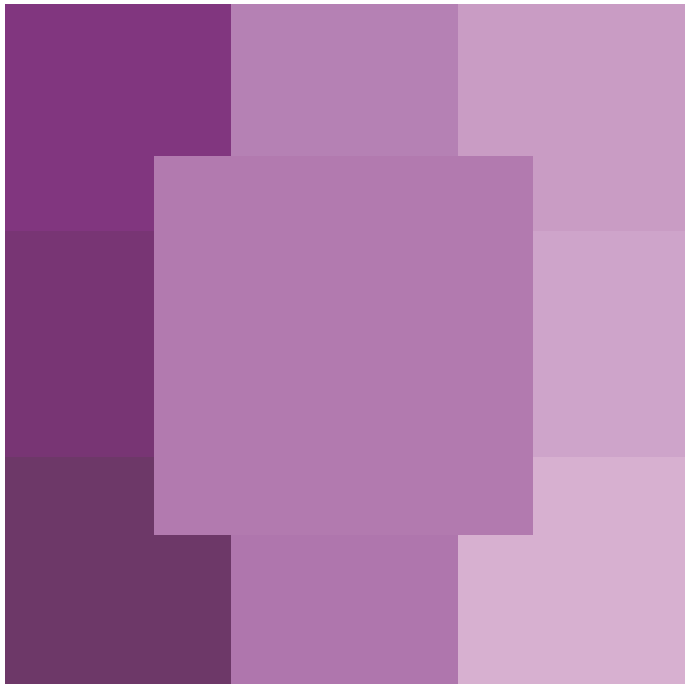


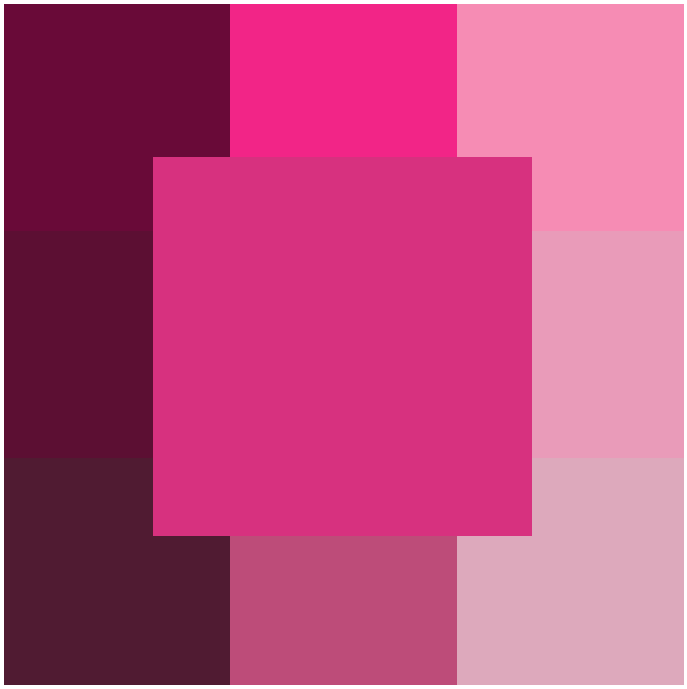


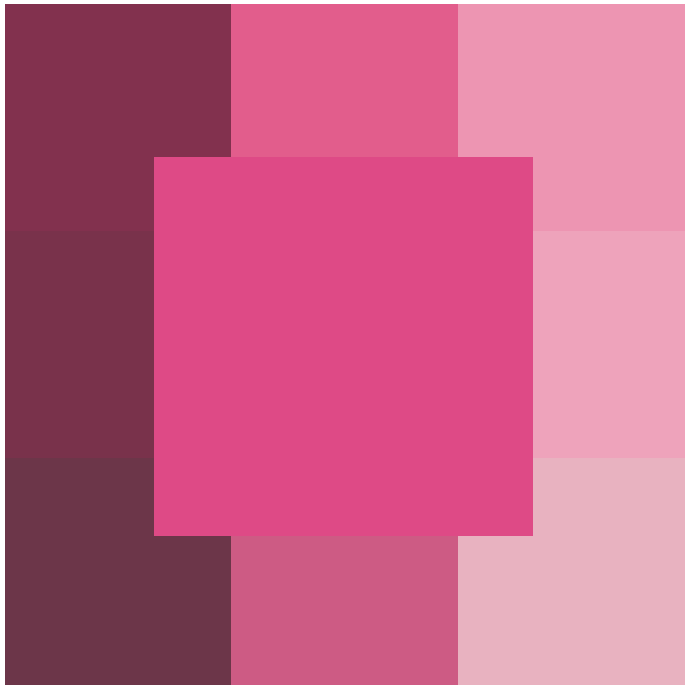








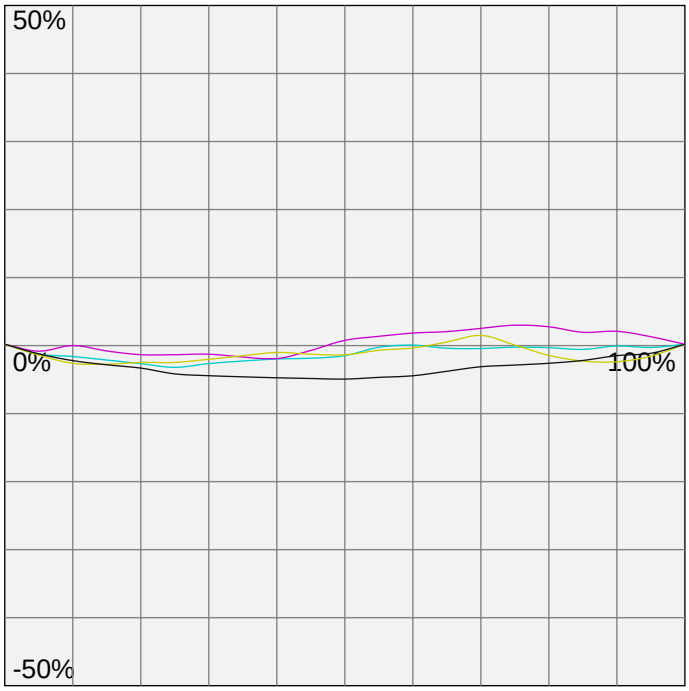




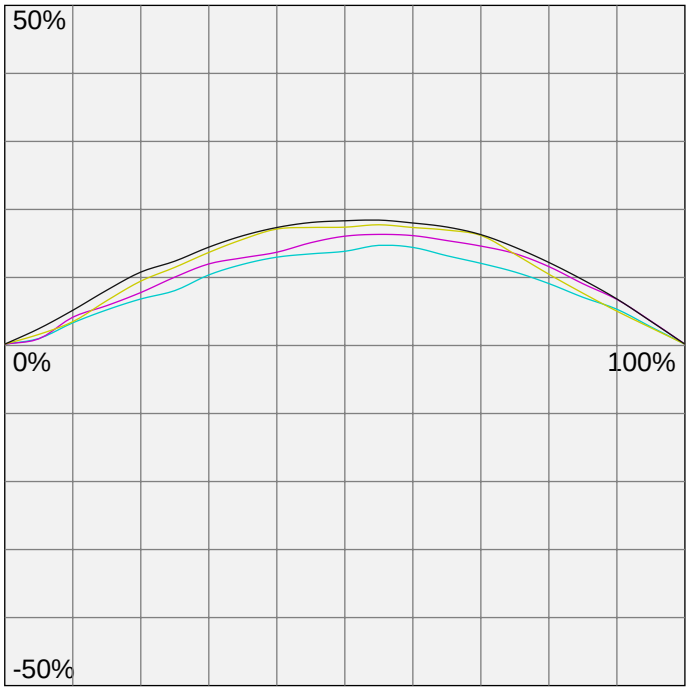
7. Linearity

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.



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.



8. Dot Gain

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