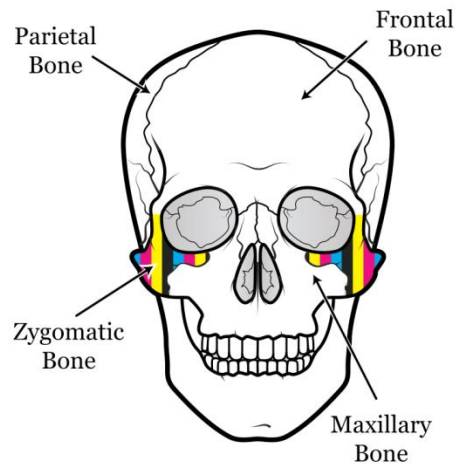


# Zygomatic Color

<https://zm-color.com>

## Evaluation Images

For sub20191126



### What is this?

This PDF file is evaluation images of the ICC profile for your printing system. If you are satisfied with the result, please check the notice mail in your mailbox, follow the link, and click the payment button. The price is 50 USD excl. VAT.

### “How can I evaluate the result?”

Print the images in the same way with previous targets.

There are some hints:

- ICC profile cannot make gamut wider. It just obscures the narrowness. The technique is must-see.
- Gradation is another must-see. Many ICC profiles show uneven step-wise gradation from smooth source image.
- In some cases, illuminant is fatal. Try various viewing conditions.
- Scan the result. If your scanner is inaccurate, the scanned image will be more accurate than the result itself.

## **“Do I need a more accurate scanner?”**

No. What you need is a color chart or a better printer, in most cases. There are three major causes of scanner inaccuracy.

One is gray balance. Many scanners tend to read blue-ish gray image from true gray specimen. Zygomatic Color can correct it by using a color chart (SpyderCHECKR 24 or X-RITE ColorChecker Classic) while configuration.

Another is dynamic range. Ideal reflecting diffuser should be maximum of luminance, and ideal black body should be minimum. But most scanners are tuned to be a bit wider. Get a color chart to manage this problem.

The most unmanageable cause is the spectral characteristics. Ideal gray has flat spectral reflectance curve. Color charts provide almost ideal gray patches. But a 4- or 6-color printer's gray is far from ideal. The spectral reflectance curve is bumpy, because it contains colorants. Scanner mimics the spectral characteristics of human eyes, but it isn't perfect. The inaccuracy is most noticeable on bumpy gray.

If you need perfect gray, a 4- or 6-color printer isn't a good choice. Even under perfect tune, bumpy gray shows metamerism. Buy an 8- or more color printer for photographers. Such printers have gray and light gray ink which are almost ideal gray.

## **After purchasing**

If you buy the ICC profile, keep this PDF file. The evaluation images are useful for degradation assessment of your printing system. Digital images never degrade over time.

## **Expiration Date**

The invoice for the ICC profile will expire on 2019-12-24.

# Datacolor SpyderCHECKR 24

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# X-Rite ColorChecker Classic

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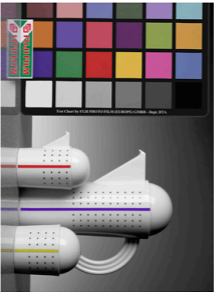
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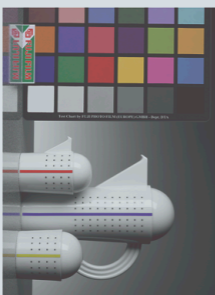
Original image



Soft proof

sub20191126@sRGB

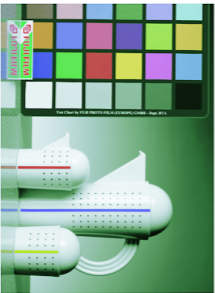
Media-relative Colorimetric with BPC



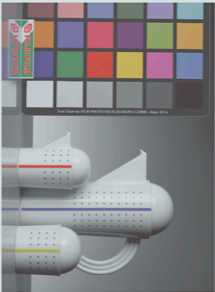
Printing image

sub20191126@sRGB

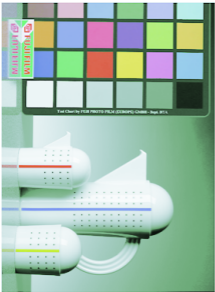
Media-relative Colorimetric with BPC



Soft proof  
sub20191126@sRGB  
Perceptual



Printing image  
sub20191126@sRGB  
Perceptual



Original image



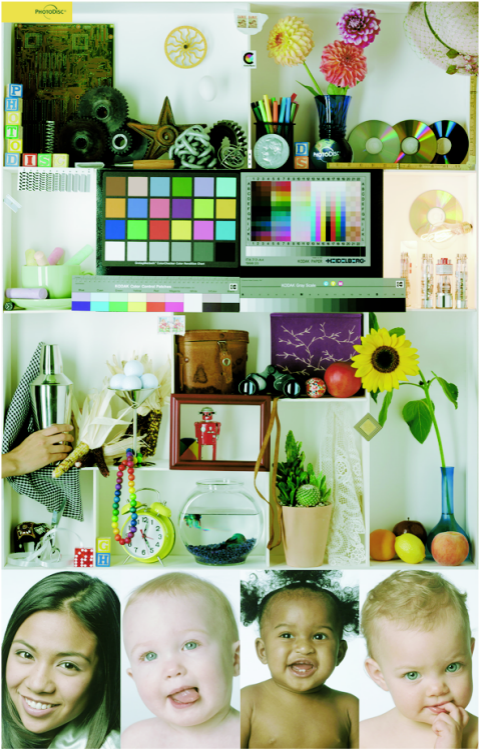
Soft proof

sub20191126@Adobe RGB

Media-relative Colorimetric with BPC



Printing image  
sub20191126@Adobe RGB  
Media-relative Colorimetric with BPC



Soft proof  
sub20191126@Adobe RGB  
Perceptual



Printing image  
sub20191126@Adobe RGB  
Perceptual

