Gamut Warning.atn

This Photoshop Action will show you which CMYK colors you can't judge dependably on your monitor as they are out of it's gamut. After double-clicking the file "Gamut Warning.atn" you will find a new set "Gamut Warning" in your Actions Palette. The set contains only one Action, also called "Gamut Warning".

Before you can use it, you should open the test image **"timage300-16-CMYK.tif"**.

You can assign (not convert!) a different profile to this document if you want to refer to any other CMYK space. You can also use any other CMYK image as test master.

The test image shows the hull of the CMY-Cube. The real (CMYK-) device gamut is slightly bigger, especially in the region of very dark, saturated colors, but it's not possible to generate a smooth and device independent test image that shows the whole gamut surface.

Bring the test image to the front and start the action.

It will generate a new document "Gamut Warning". If you have used the action before and there is still a unsaved "Gamut Warning" document, you have to close or rename it.

The Action will show you the "Convert to Profile" dialog. Select your display profile and don't change anything else.

When the Action has finished, you can toggle the visibility of the layers in the result image to see the gamut boundary, the original image or the deviations based on gray. Out-of-gamut-colors will be framed by a white border. The "deviations" layer shows the differences between the real CMYK color and the color displayed in the softproof moved towards neutral gray. This can give you an idea about how strong the differences are.

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