### Output - Input - Output: A loop for relative colour fidelity with the visual rgb\* and LCh\* CIELAB data

For the ISO-test file with 729 colours, see http://standards.iso.org/iso/9241/306/ed-2/AE49/AE49F0PX\_CY8\_1.PDF Use the OLM16 method for output linearization, see http://farbe.li.tu-berlin.de/OUTLIN16\_01.PDF. Then there are linear relations between *rgb*\* and *LCh\**. Use reference test chart with 729 CIELAB colours

### Ergonomic and colorimetric goals as option

#### Improved standardization

Interdisciplinary standards shall replace isolated standards to realize the properties of the ISO-colour loop. The output shall be equal for rgb\*/cmyk\* data according to the 1-Minus-Relation (1MR) and continous.

# Display output with rgb\*/cmyk\* data For different display reflections at work places a relative gamma slider and/or gamma profiles shall produce an ergomomic output for the

whole display.

# Print output with rgb\*/cmyk\* data

For different paper contrast at work places with the display or printer driver different relative gamma shall produce an ergomomic output. Any printer shall have a cmyk\*-input channel as an option to produce an ergomomic output.

A general ergonomic solution instead of the gamma transfer is the transfer of 16,7 million rgb\*/cmyk\* to rgb\*/cmyk\*' data.

Colour scanners or cameras produce 729 rgb data.

Transfer the 729 rgb data to the 729 rgb\* data.

After the linearized input the 729 colour data rgb\* may be used again for the linearized output.

