

Technical problems to write standard documents in the field of colour vision and image technology.

Problem: For example the standard organisations ISO, CEN, DIN, and CIE use *anticopy software*. This software is *incompatible* with the EPS vector graphic of the software *Adobe Illustrator*. However, this image software is used since 20 years in standard documents. How to revise these ISO documents?

Some existing problems for **visibility, readability, resolution, and colour** are listed. A solution shall maintain the former high quality of ISO standards. If the *anticopy software* is necessary then it shall be *compatible* with EPS vector graphic.

Many problems show the PDF document N1581 of ISO TC159/SC4/WG2 *Visual Display Requirements*. Many colours of three 16 step colour scales between white and RGB disappear on page 36. The Word document with EPS graphic shows all colours as intended.

Solution 1: The vector graphic files are transferred to pixel graphic files and are included in the Word file.

Disadvantages:

1. The test results of ISO standards for *Visibility, readability and resolution* are determined by the pixel software and not by the colour vision properties of users.
2. For example the word file size of ISO 9241-306 increases from 3 to 60 MB.

This is not accepted by the email servers of standard organisations.

Solution 2: ISO 9241-306:2018 is published in pixel graphic (low quality). ISO-test charts in vector graphic are for download from the *ISO Standard Maintenance Portal*. Therefore the test quality of ISO 9241-306:2009 remains, see <http://standards.iso.org/iso/9241/306/ed-2/index.html>