

Common Appearance

Agenda

- **Pair comparison vs. Common Appearance**
- **Perceptual reproduction today („Trad.“)**
 - **Pair comparison**
 - **Multi reproduction comparison**
- **Example of Common Appearance mapping („CA“)**
 - **Pair comparison**
 - **Multi reproduction**
- **Comparison of 1 & 2**
- **Discussion**

Transformations used for this presentation

- ECI-RGBv2 → abs. col. → sRGB → „original“
- ECI-RGBv2 → perceptual → PC → abs.col. → sRGB → „reproduction“

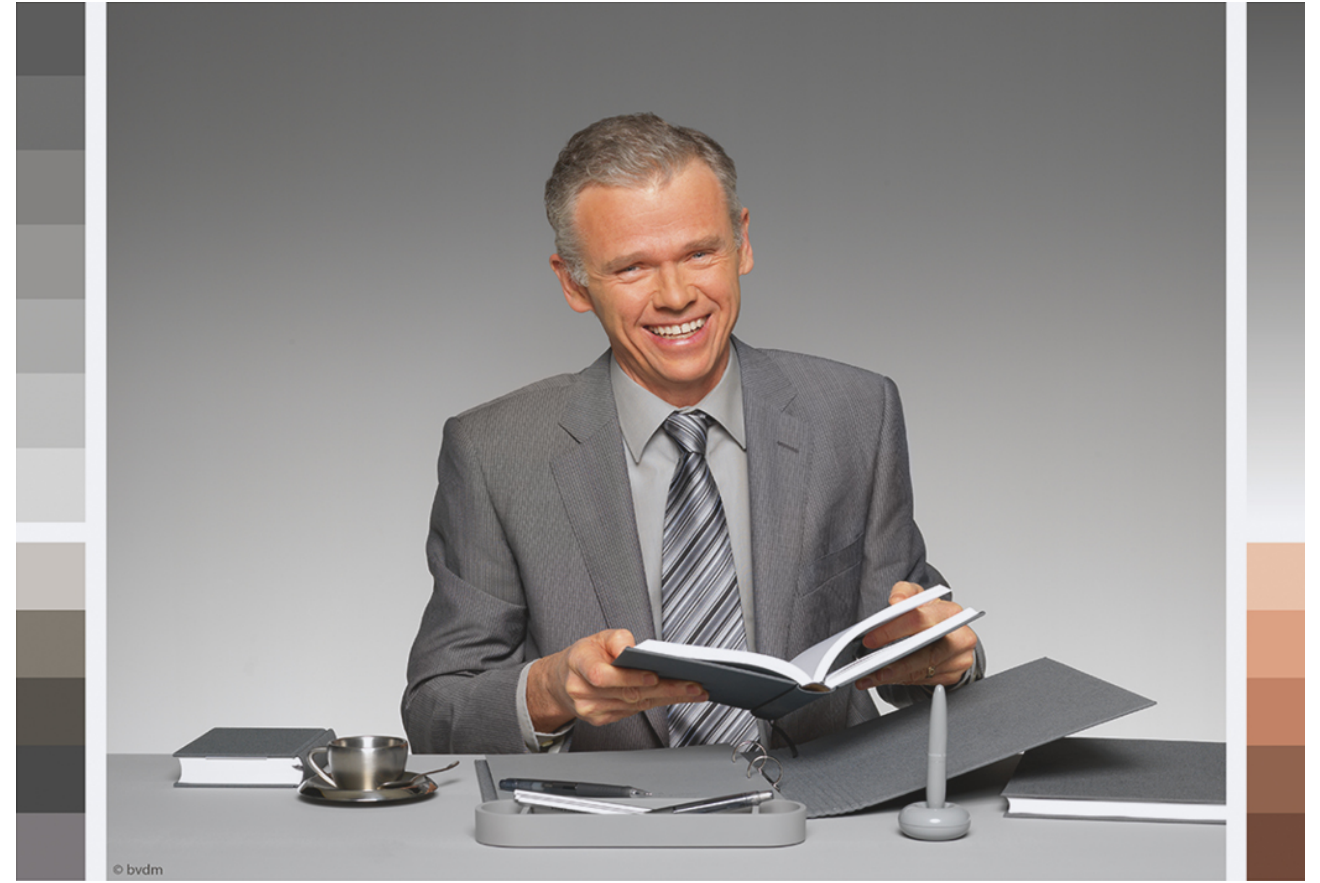
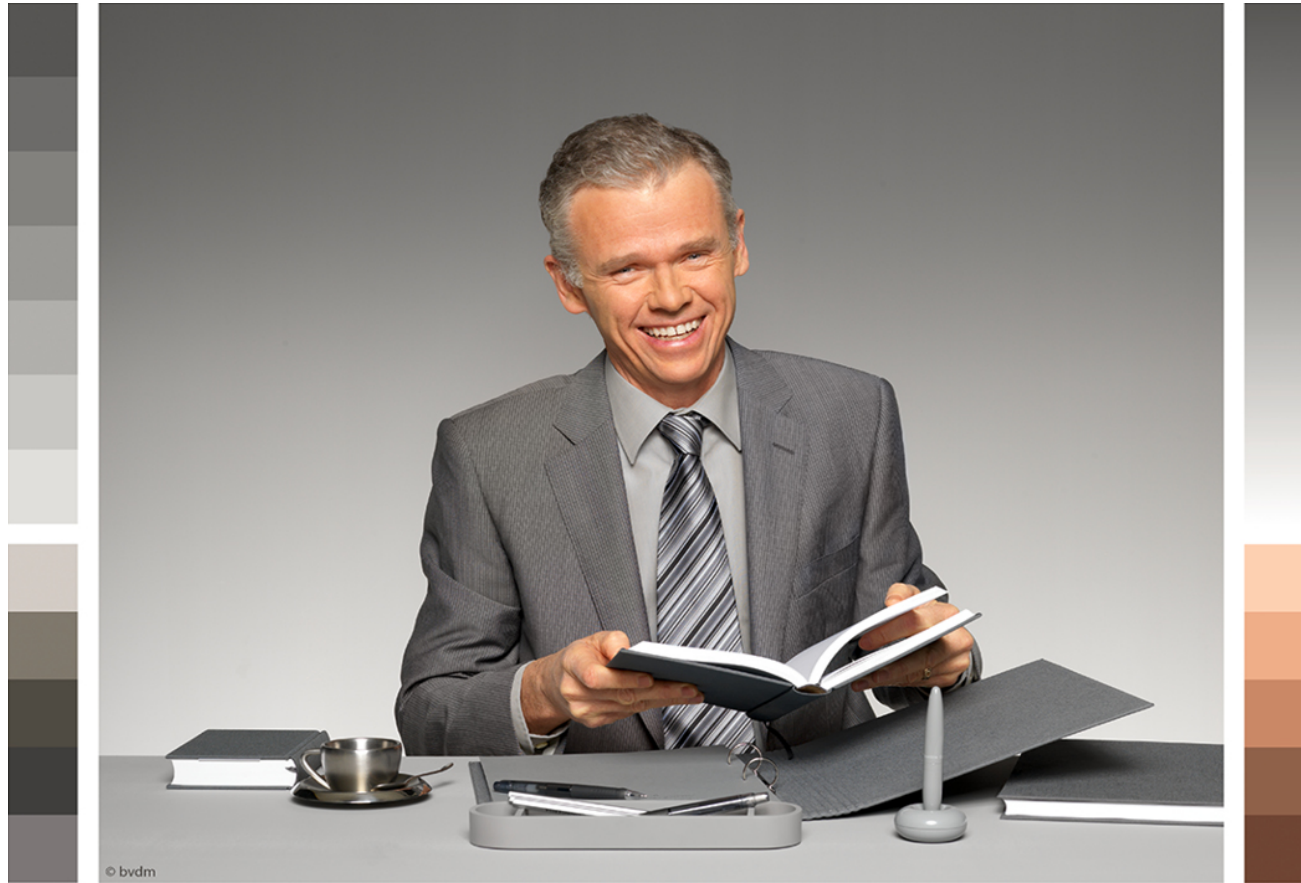
Setup Pair comparison



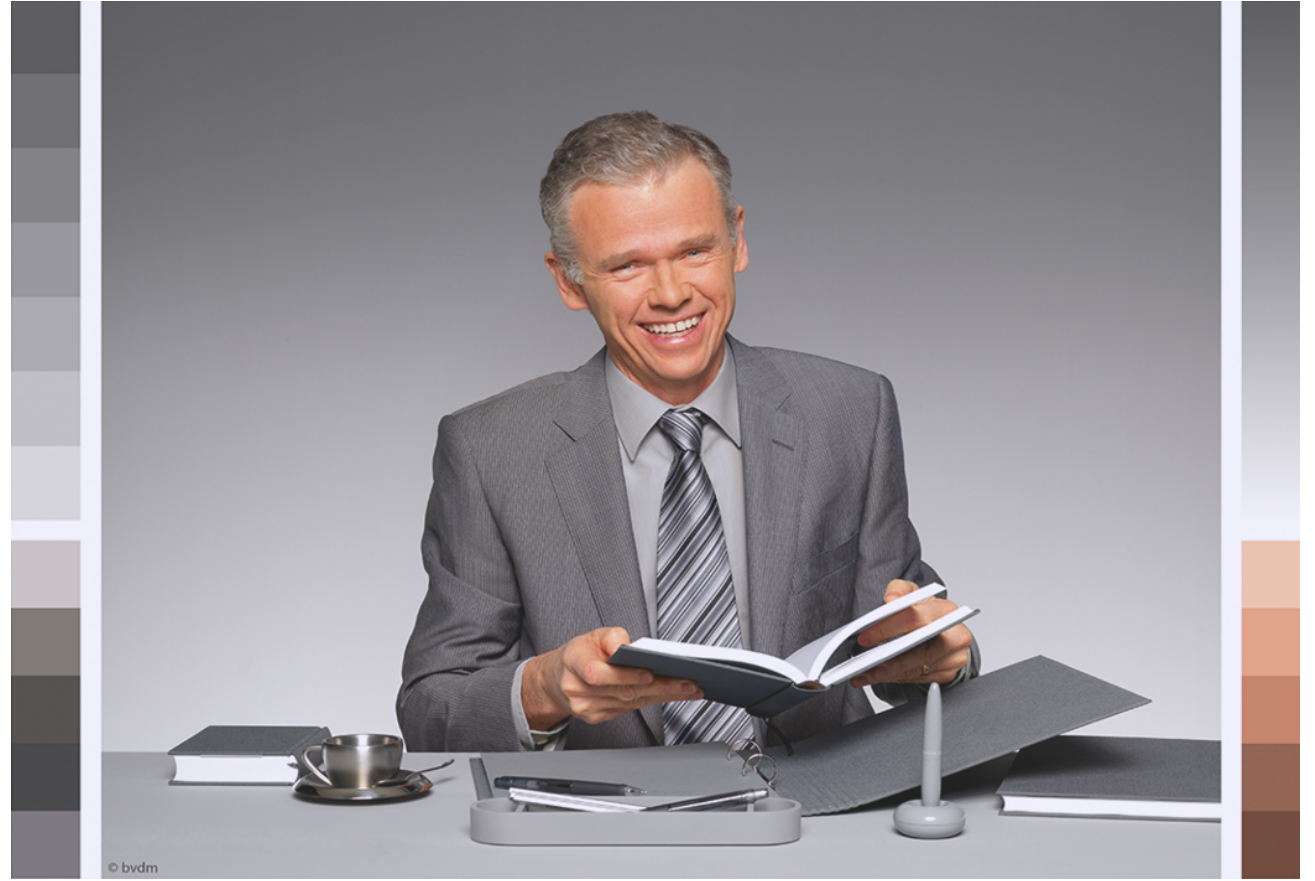
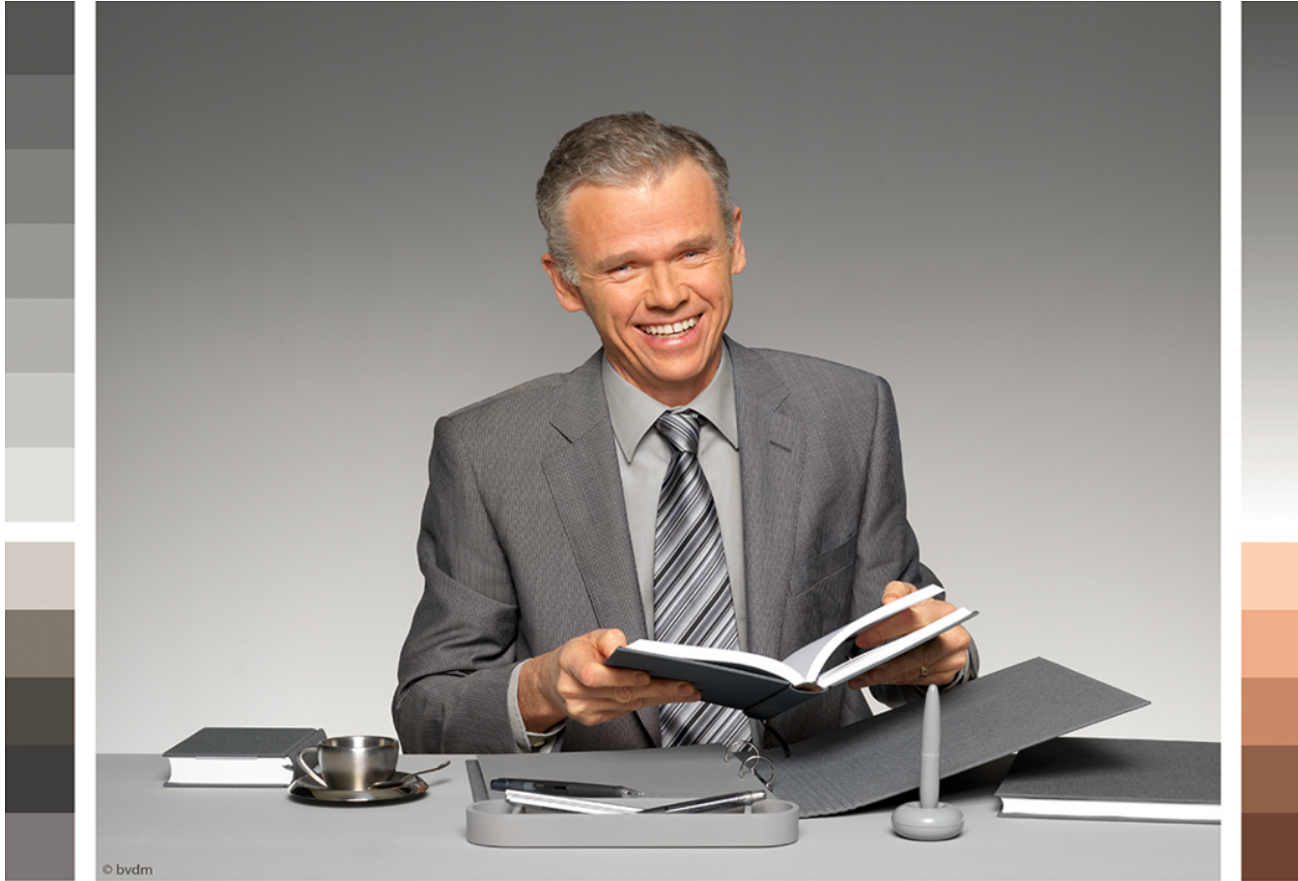
■ sRGB Original

■ Reproduction

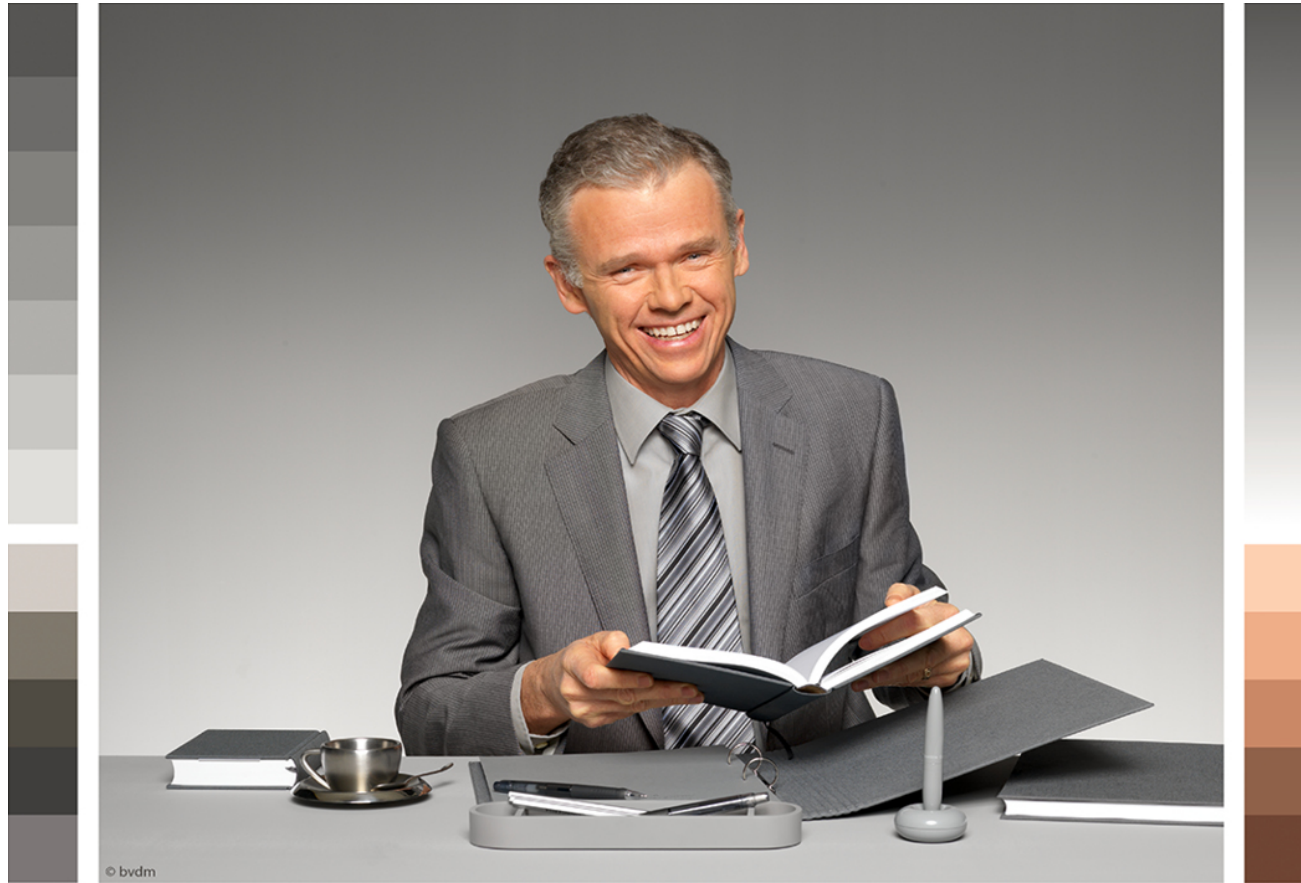
Trad.: sRGB vs. FOGRA39



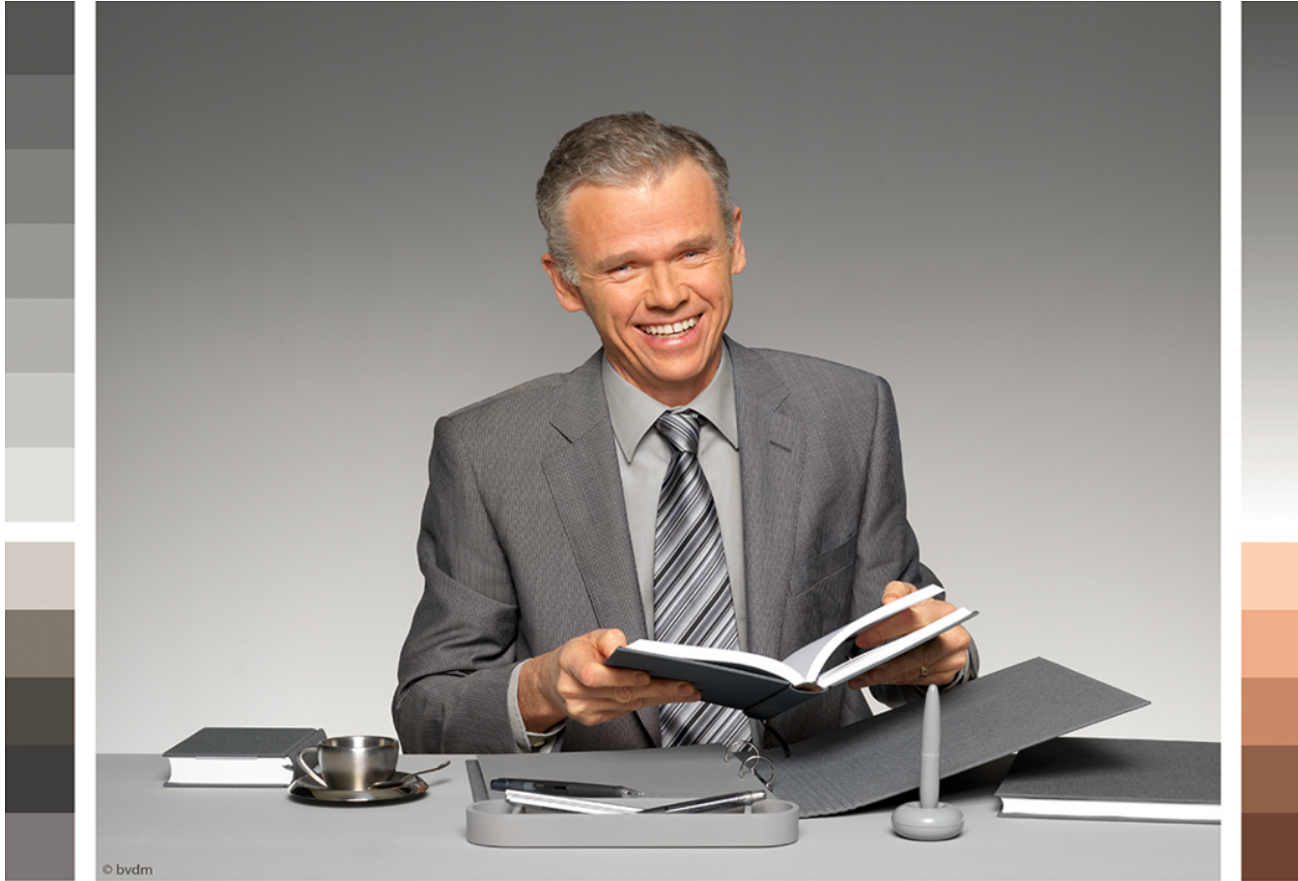
Trad.: sRGB vs. FOGRA51



Trad.: sRGB vs. FOGRA52



Trad.: sRGB vs. IFRA26



Trad.: sRGB vs. FOGRA39



Trad.: sRGB vs. FOGRA51



Trad.: sRGB vs. FOGRA52



Trad.: sRGB vs. IFRA26



Trad.: sRGB vs. FOGRA39



Trad.: sRGB vs. FOGRA51



Trad.: sRGB vs. FOGRA52



Trad.: sRGB vs. IFRA26



Setup Multi reproduction

■ FOGRA39

■ FOGRA51

■ FOGRA52

■ IFRA26



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Trad.: Multi reproduction



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Trad.: Multi reproduction



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Trad.: Multi reproduction



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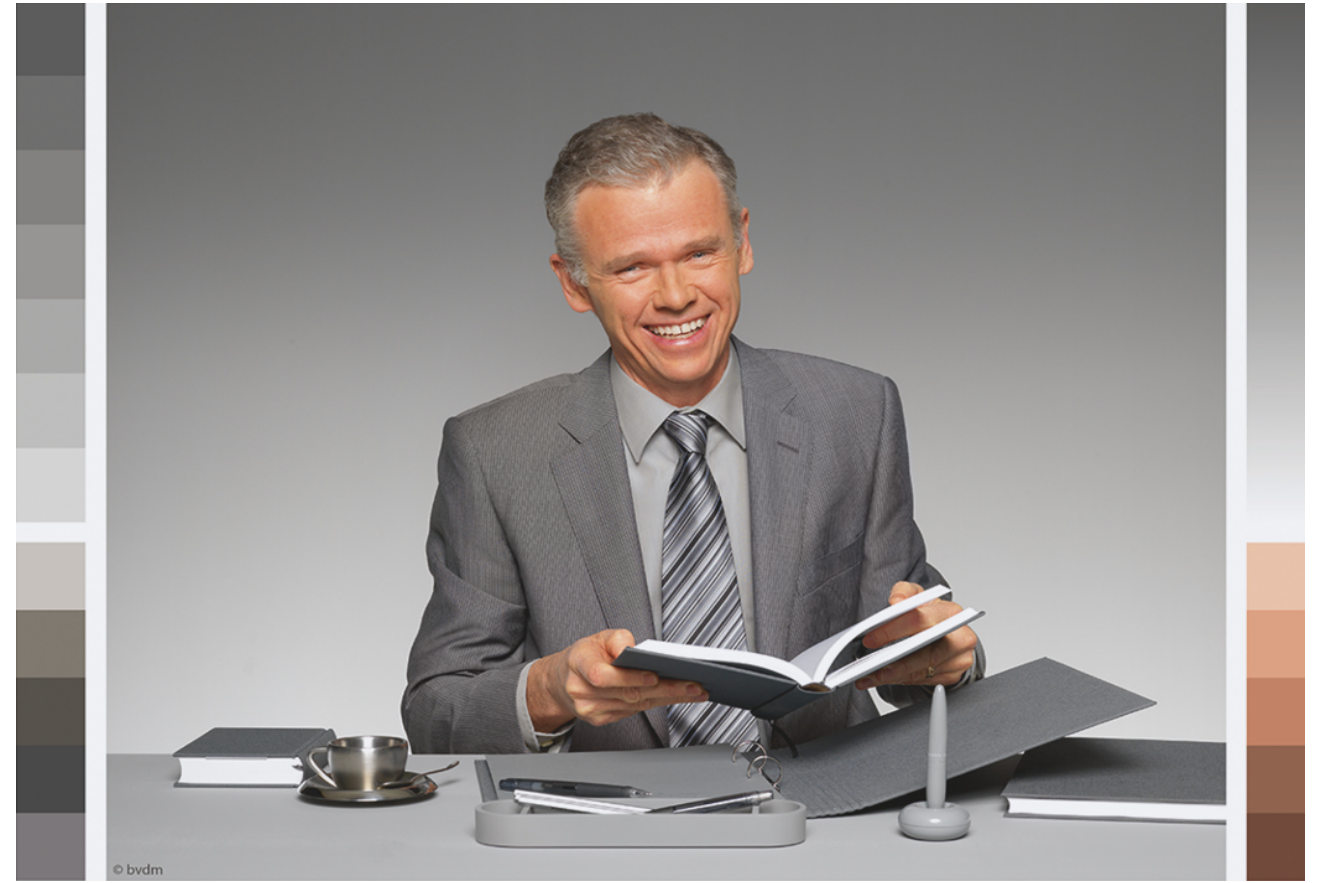
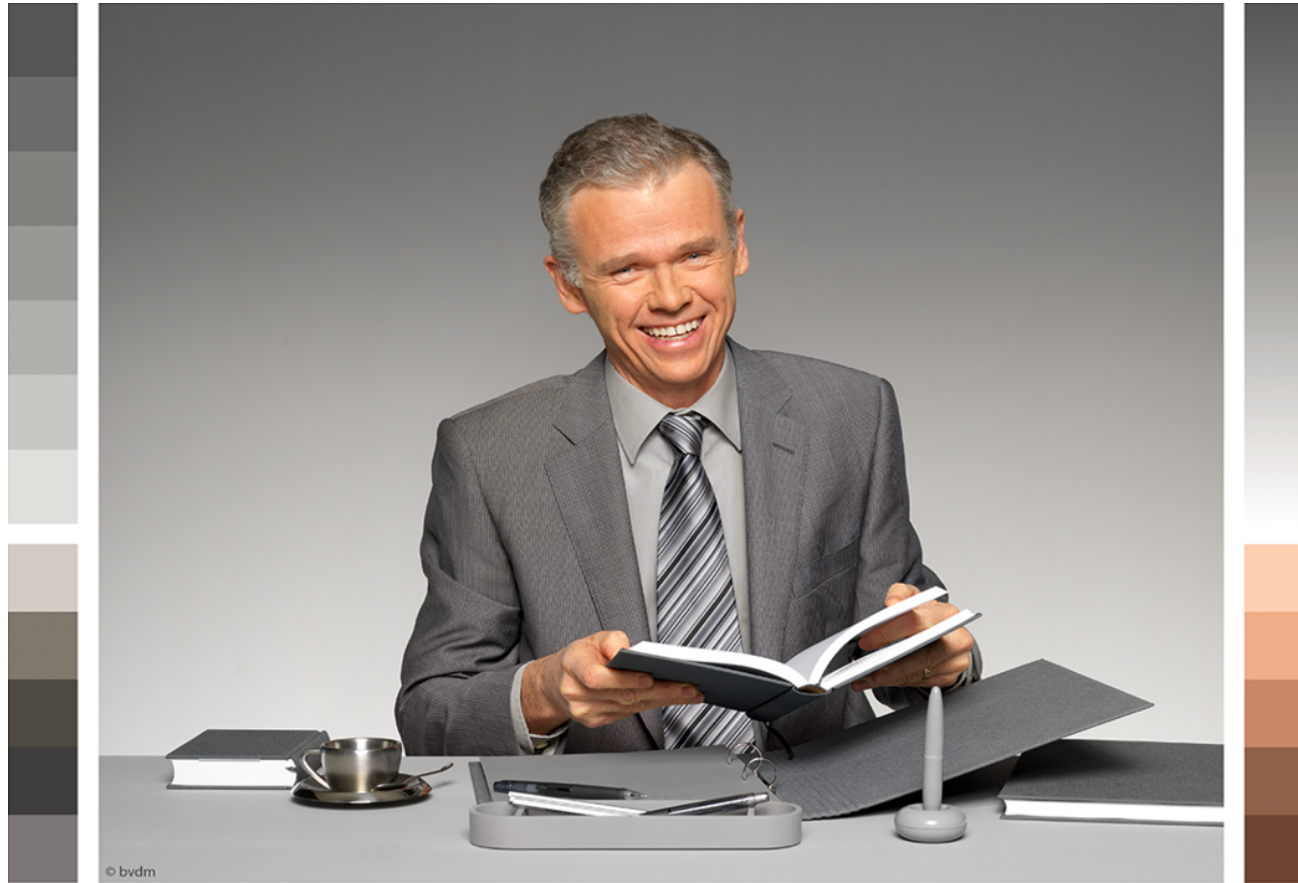
Setup Pair comparison



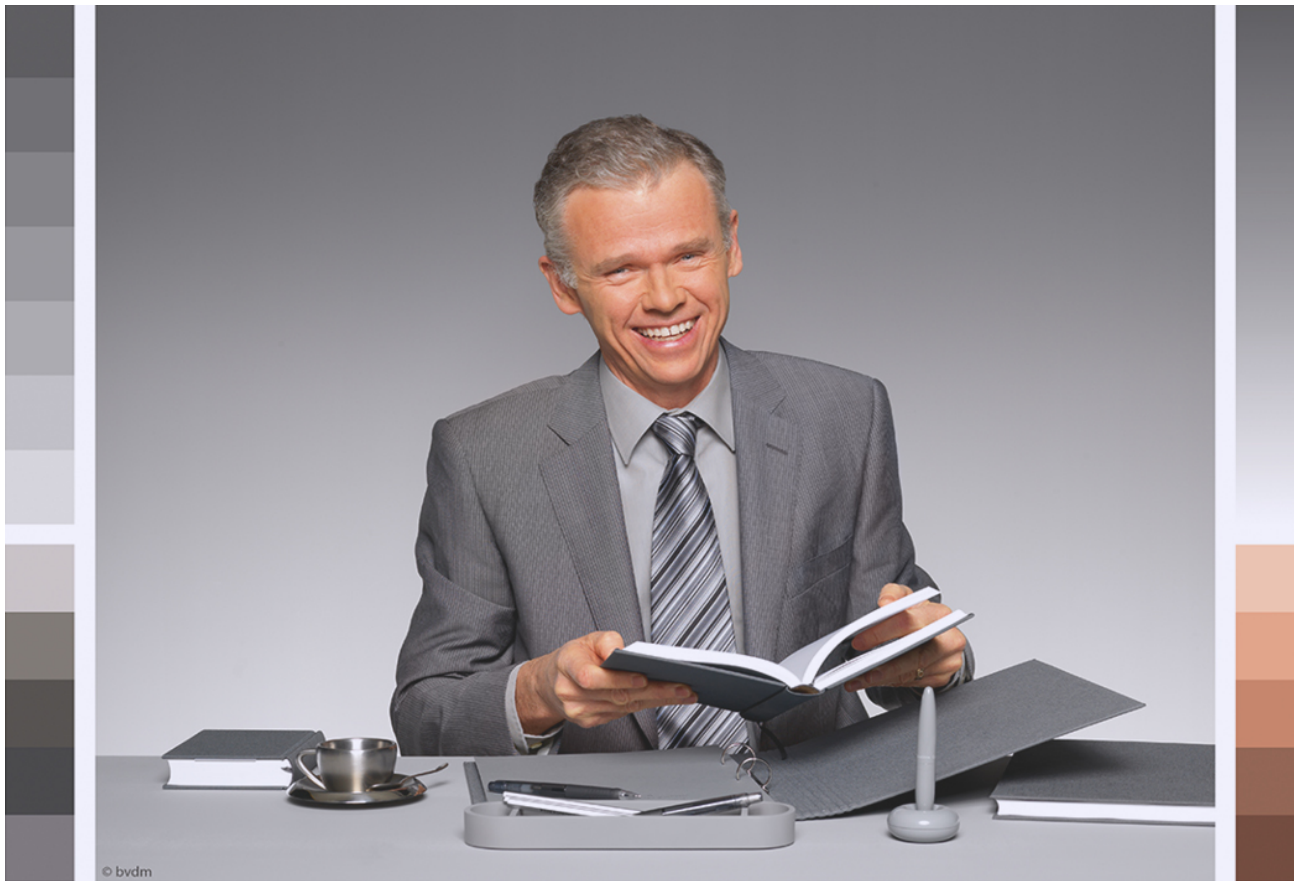
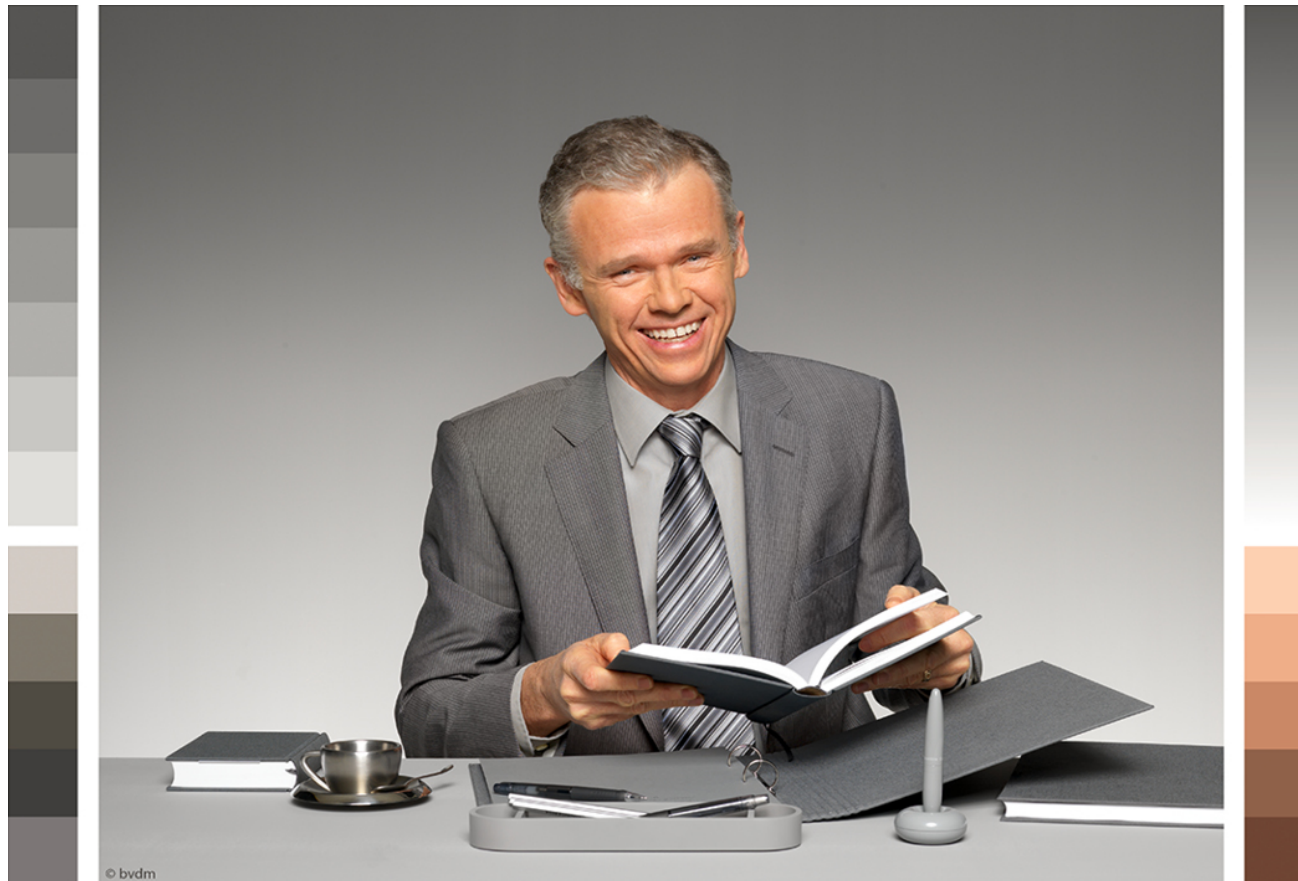
■ sRGB Original

■ Reproduction

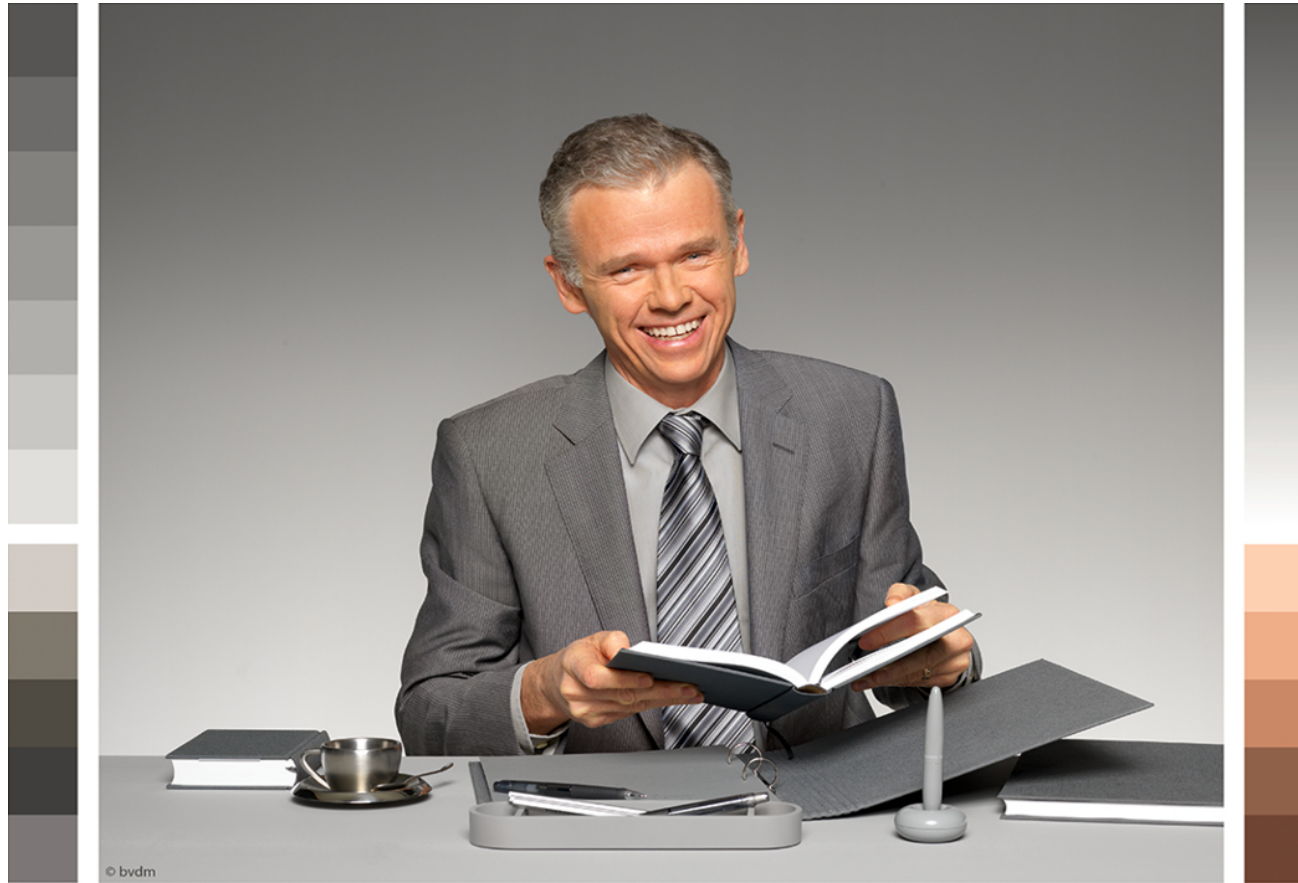
CA.: sRGB vs. FOGRA39



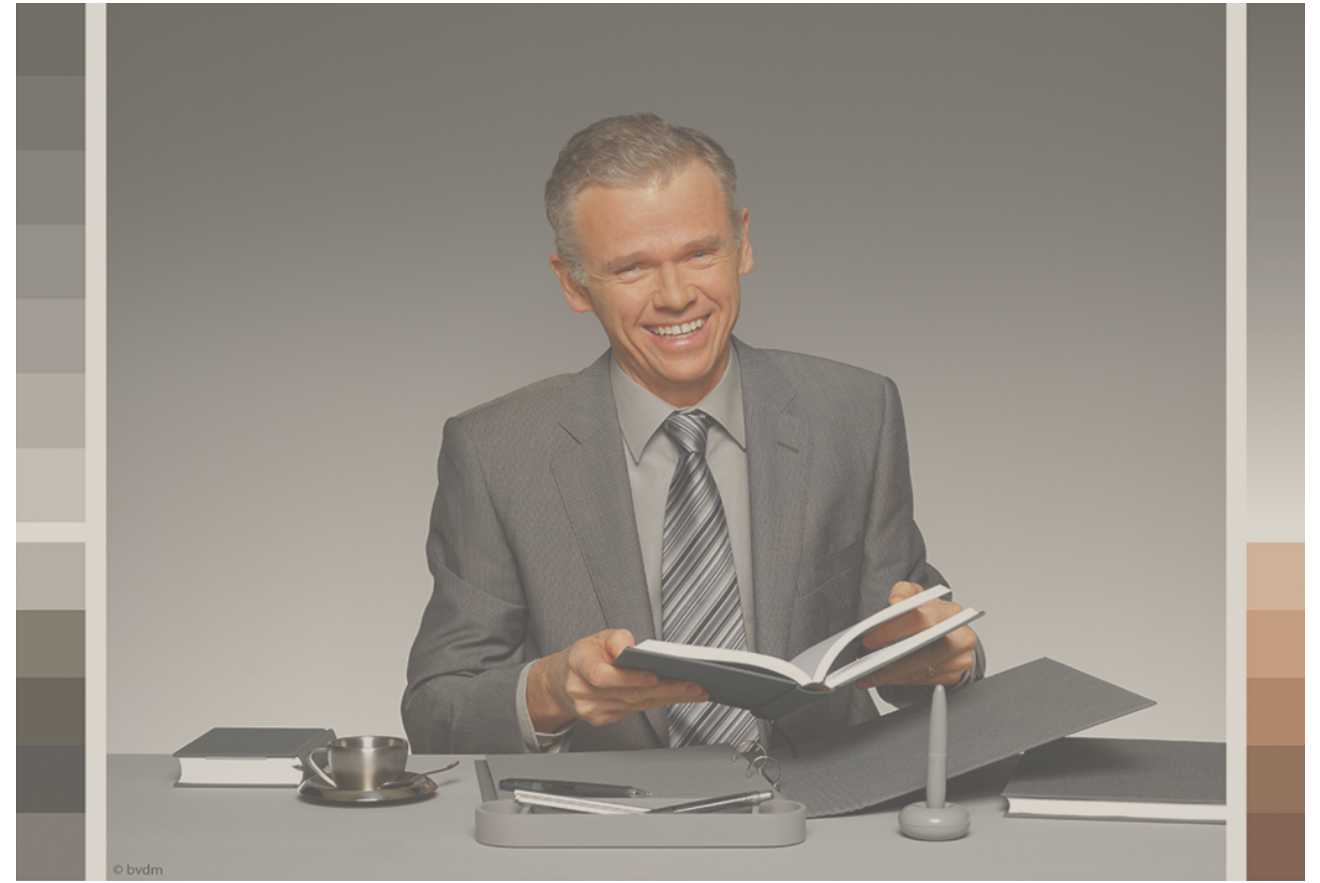
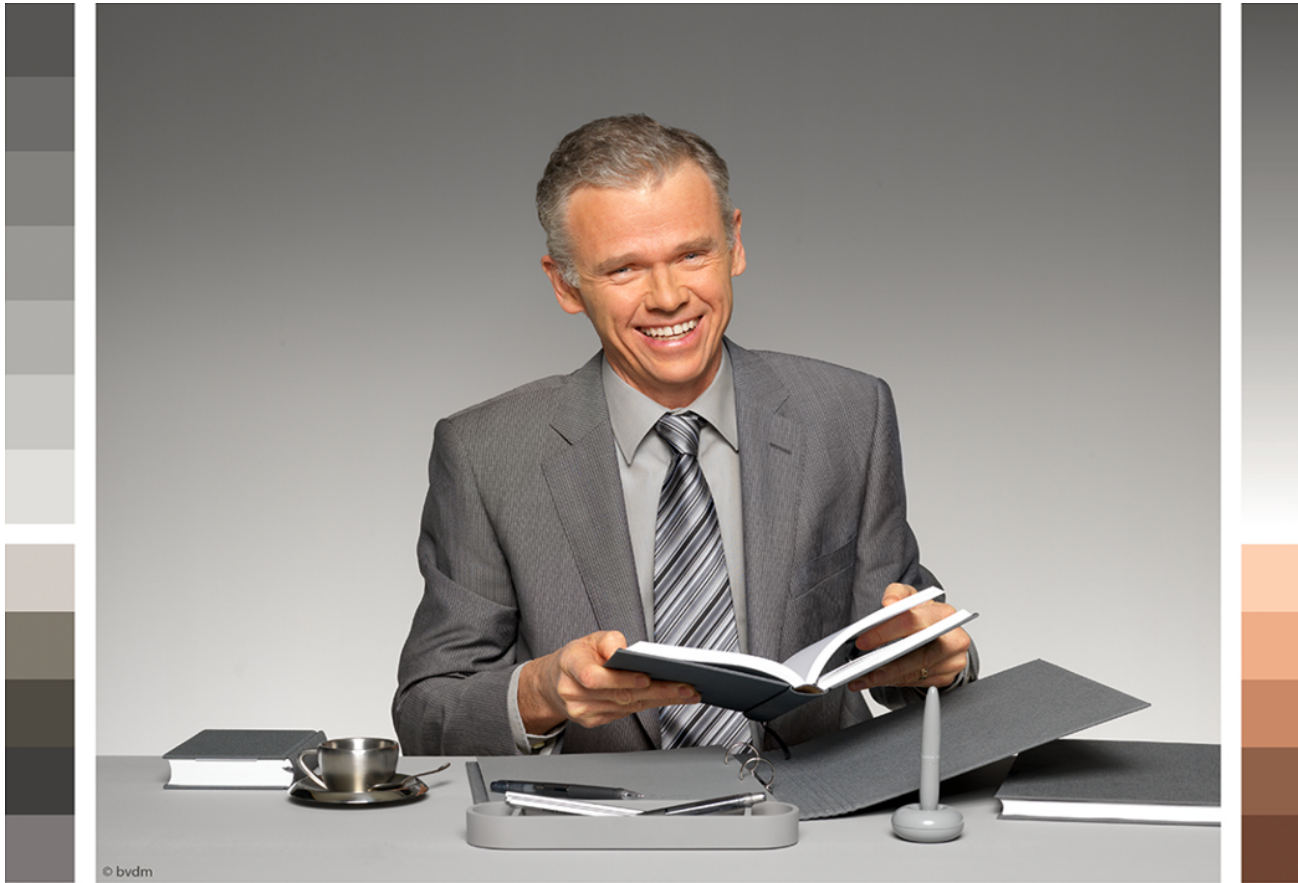
CA.: sRGB vs. FOGRA51



CA.: sRGB vs. FOGRA52



CA.: sRGB vs. IFRA26



CA.: sRGB vs. FOGRA39



CA.: sRGB vs. FOGRA51



CA.: sRGB vs. FOGRA52



CA.: sRGB vs. IFRA26



CA.: sRGB vs. FOGRA39



CA.: sRGB vs. FOGRA51



CA.: sRGB vs. FOGRA52



CA.: sRGB vs. IFRA26



Setup Multi reproduction

■ FOGRA39

■ FOGRA51

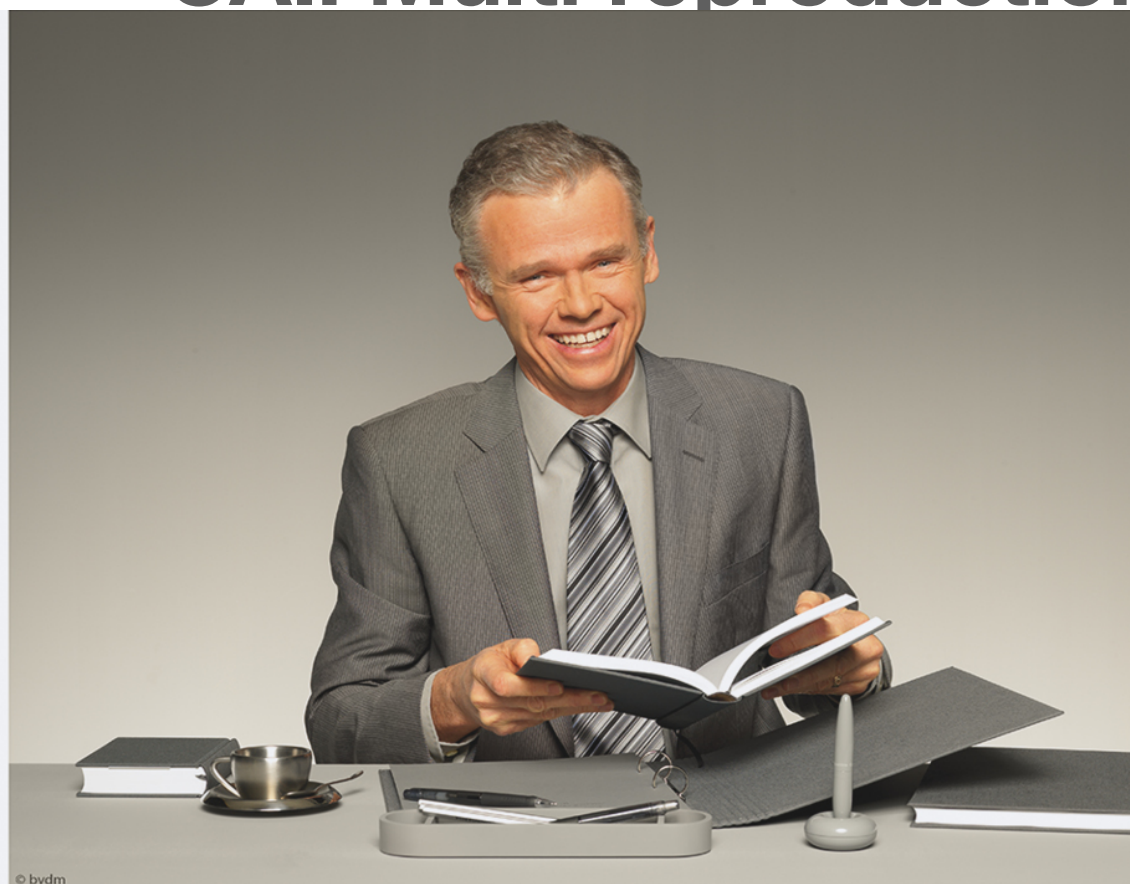
■ FOGRA52

■ IFRA26

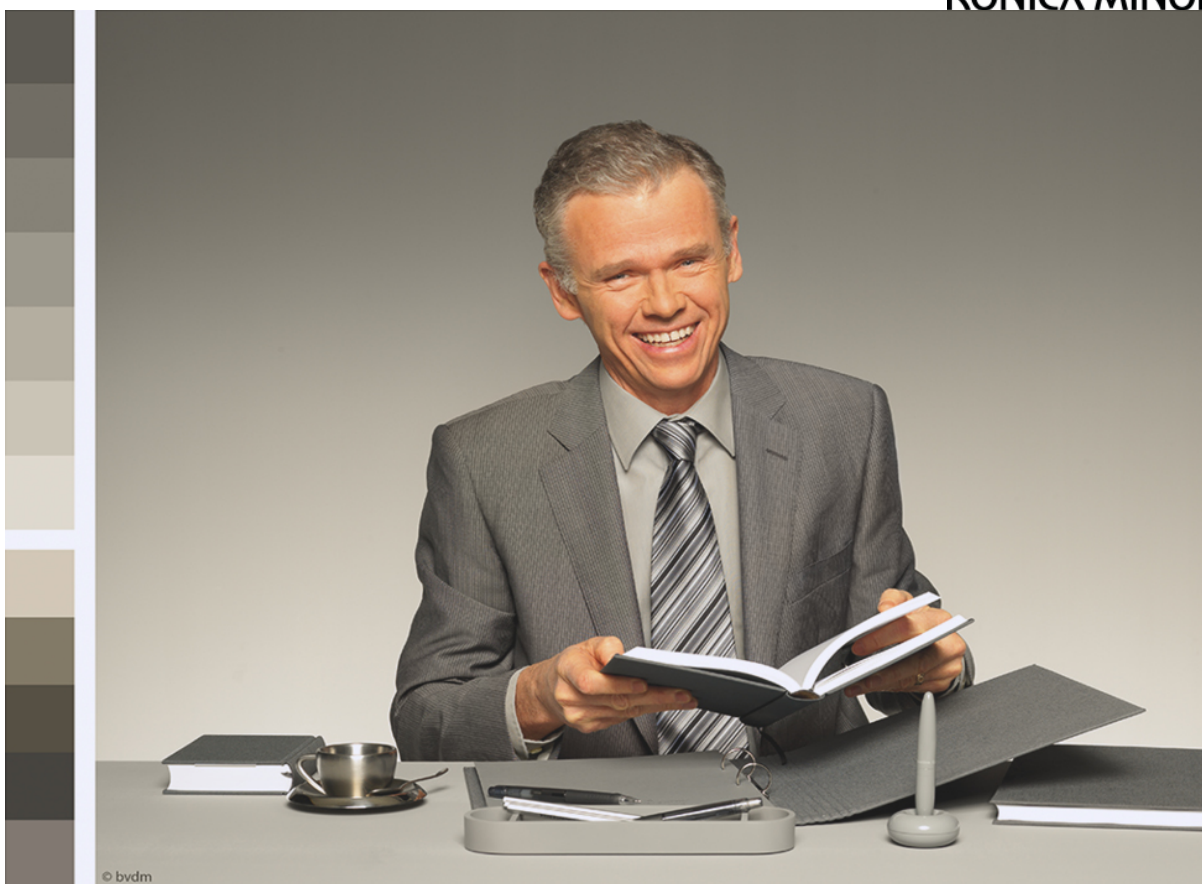
CA.: Multi reproduction



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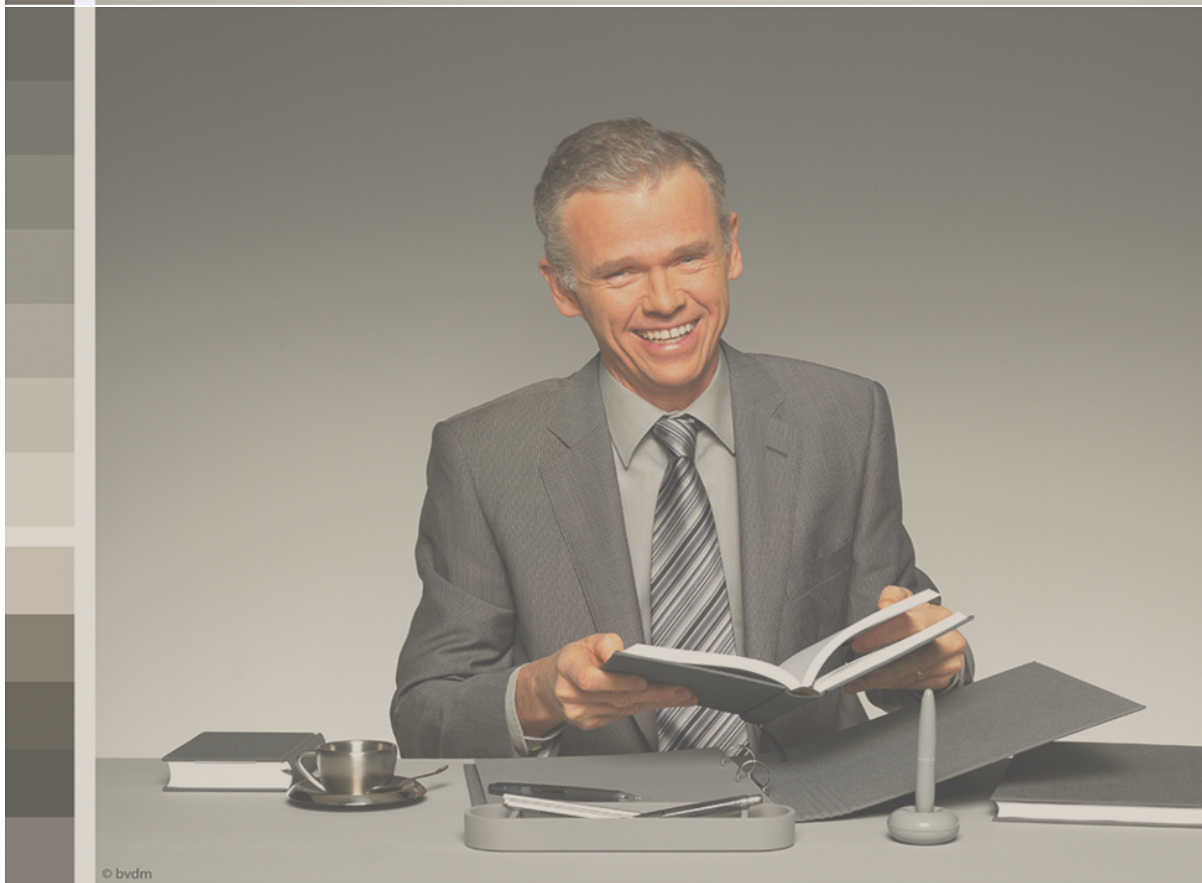
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CA.: Multi reproduction



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Setup Comparison

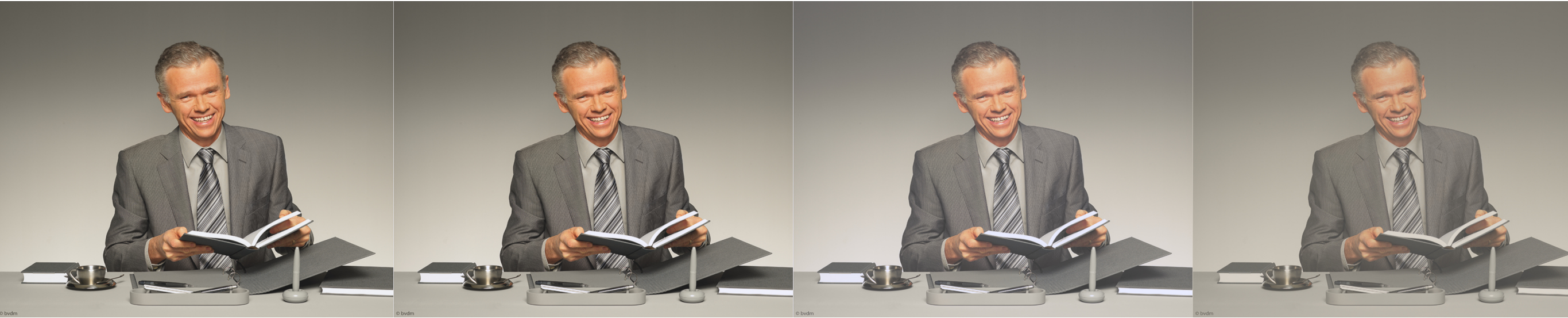
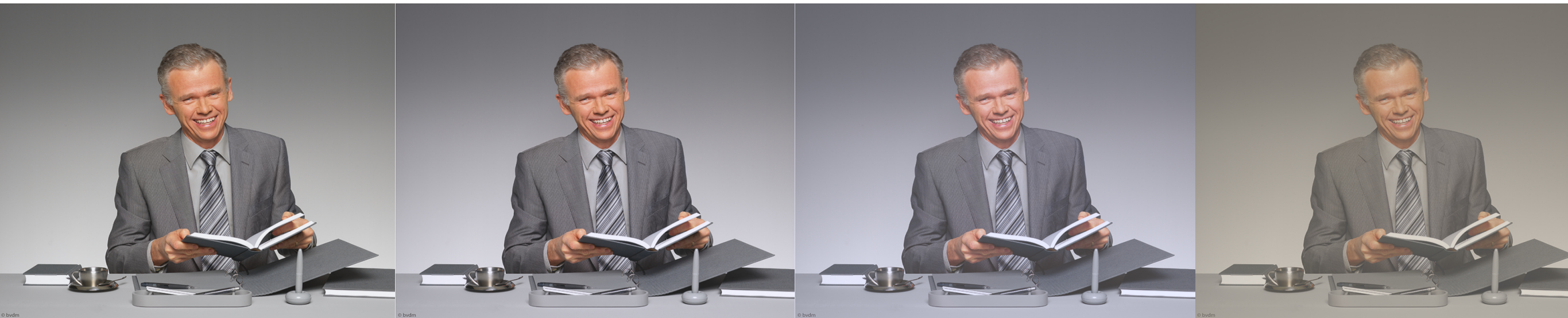
■ Traditional



■ Common Appearance



Comparison „Multi reproduction“



Comparison „Multi reproduction“



Comparison „Multi reproduction“



Discussion

- There seems to be a huge difference between judging one reproduction against the original vs. judging multiple reproductions at a time
- The quality in terms of preservation of appearance in a pair comparison is comparable between „traditional“ gamut mapping and a common appearance approach
- In a multi-reproduction comparison the common appearance approach is superior over the traditional perceptual mapping approach (in my humble opinion)
- How to judge this objectively?