Colour data in file, user chroma change user interpretation and output needs:

Colour data file with input data *rgb* as *undefined* colour data *rgb (−> rgb)*

no special device colours

User: Change of chroma and interpretation

1. More chromatic by $c^{*\prime} = c^{*1/2}$*(new rgb)*, output interpretation as *device* data
3. Less chromatic by $c^{*\prime} = c^{*2}$*(new rgb)*, output interpretation as *device* data
2. More chromatic by $c^{*\prime} = c^{*1/2}$*(new rgb)*, output interpretation as *elementary* data

Test: More or less chromatic device and elementary hue output?

1

Device uses lookup table *olv* − rgb'* for output.

Is the device output *more* chromatic for any of the six device hues *OYLCVM?*

2

Device uses lookup table *olv* − rgb'* for output.

Is the device output *less* chromatic for any of the six device hues *OYLCVM?*

3

Device uses lookup table *rgb* − rgb"* for output.

Is the device output *more* chromatic for any of the four elementary hues *RJGB?*

Remark:
For output linearisation see ISO/IEC TR 19797