Colour data in file, user choice and output needs:

Test: Equally spaced device or elementary hue output?

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

no special device colours

User choice no. 1 of colour data for output: Output interpretation as *device* data and output transformation *rgb to* ***rgb'***$_1$ for device 1 → 1

Device 1 uses the data *rgb'*$_1$ for output. Is the device output equally spaced for any of the six device hues *OYLCVM?*

User choice no. 2 of colour data for output: Output interpretation as *device* data and output transformation *rgb to* ***rgb'***$_2$ for device 2 → 2

Device 2 uses the data *rgb'*$_2$ for output. Is the device output equally spaced for any of the six device hues *OYLCVM?*

User choice no. 3 of colour data for output: Output interpretation as *elementary* data and output transformation *rgb to* ***rgb"***$_1$ for device 1 → 3

Device 1 uses the data *rgb"*$_1$ for output. Is the device output equally spaced for any of the four elementary hues *RGB?*

Remark: For output linearisation see ISO/IEC TR 19797

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User specification of the output with *rgb* data interpretation as *olv**
Equally spaced output, equal output, chroma change, smoothing

Is the output visually equally spaced for equally spaced colour data as input?
device hue colour output *olv** for six device hue planes OYLCVM

Colour Code:	*rgb*	*cmy0*	*000k*	*w*	*LAB**	*LCH**	*nch**	*nce**
5 steps:	○	○	○	○	○	○	○	○
16 steps:	○	○	○	○	○	○	○	○

Is the output visually equal for equivalent colour data as input?
device hue colour output *olv** for six device hue planes OYLCVM

Colour Code:	*rgb, cmy0*	*rgb...w*	*rgb...LCH**	*rgb...nce**
5 steps:	○	○	○	○
16 steps:	○	○	○	○

Exists an option for a change of chroma for equally spaced input data?
device hue colour output *olv** for six device hue planes OYLCVM

Change option:	*no option*	*less chromatic*	*more chromatic*	*achromatic*
5 steps:	○	○	○	○
16 steps:	○	○	○	○

Exists an option for colour smoothing for equally spaced input data?
device hue colour output *olv** for six device hue planes OYLCVM

Smoothing option:	*no option*	*No smoothing*	*smoothing*	*visual evaluation*
5 steps:	○	○	○	Smoothing Yes/No
16 steps:	○	○	○	Smoothing Yes/No

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

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

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

Device uses lookup table *olv* − rgb'* for output. → 1 Is the device output *more* chromatic for any of the six device hues *OYLCVM?*

Device uses lookup table *olv* − rgb'* for output. → 2 Is the device output *less* chromatic for any of the six device hues *OYLCVM?*

Device uses lookup table *rgb* − rgb"* for output. → 3 Is the device output *more* chromatic for any of the four elementary hues *RGB?*

Remark: For output linearisation see ISO/IEC TR 19797

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User specification of the output with *rgb* data interpretation as *rgb**
Equally spaced output, equal output, chroma change, smoothing

Is the output visually equally spaced for equally spaced colour data as input?
elementary hue colour output *rgb** for four elementary hue planes RJGB

Colour Code:	*rgb*	*cmy0*	*000k*	*w*	*LAB**	*LCH**	*nch**	*nce**
5 steps:	○	○	○	○	○	○	○	○
16 steps:	○	○	○	○	○	○	○	○

Is the output visually equal for equivalent colour data as input?
elementary hue colour output *rgb** for four elementary hue planes RJGB

Colour Code:	*rgb, cmy0*	*rgb...w*	*rgb...LCH**	*rgb...nce**
5 steps:	○	○	○	○
16 steps:	○	○	○	○

Exists an option for a change of chroma for equally spaced input data?
elementary hue colour output *rgb** for four elementary hue planes RJGB

Change option:	*no option*	*less chromatic*	*more chromatic*	*achromatic*
5 steps:	○	○	○	○
16 steps:	○	○	○	○

Exists an option for colour smoothing for equally spaced input data?
elementary hue colour output *rgb** for four elementary hue planes RJGB

Smoothing option:	*no option*	*No smoothing*	*smoothing*	*visual evaluation*
5 steps:	○	○	○	Smoothing Yes/No
16 steps:	○	○	○	Smoothing Yes/No

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