

### sensation scaling functions

lightness  $L^*$  and tristimulus value  $Y$

adaptation on surround white  $W$

$$L^* = 100 (Y / 100)^{1/2,0}$$

adaptation on surround grey  $Z$

$$L^* = 100 (Y / 100)^{1/2,4}$$

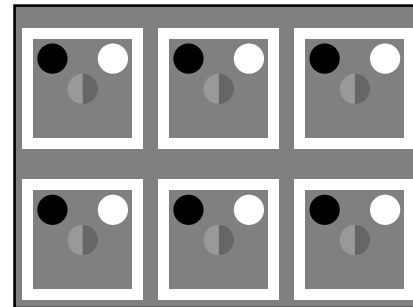
description with CIELAB 1976

$$L^* = 116 (Y / 100)^{1/3,0} - 16$$

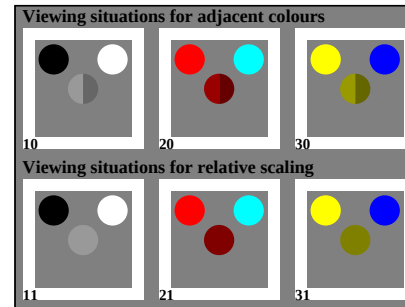
adaptation on surround black  $N$

$$L^* = 100 (Y / 100)^{1/3,0}$$

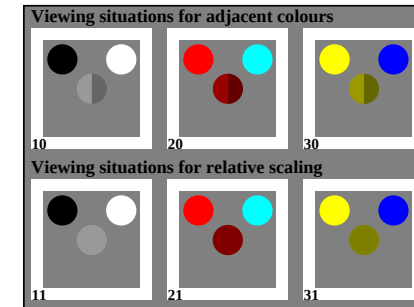
BES00-1N



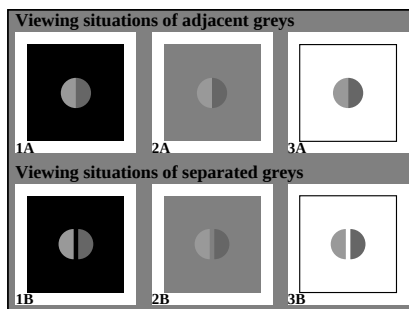
BES00-2N



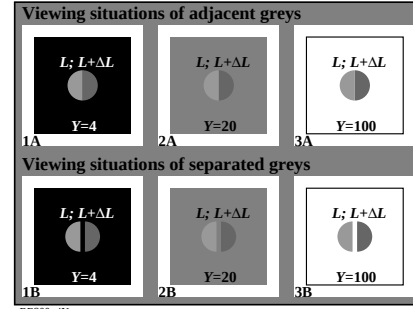
BES01-1N



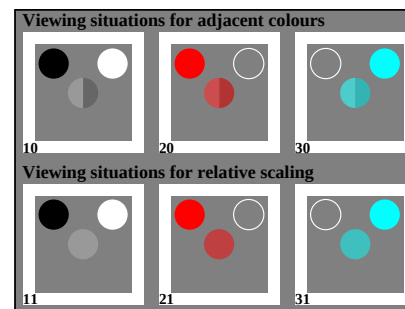
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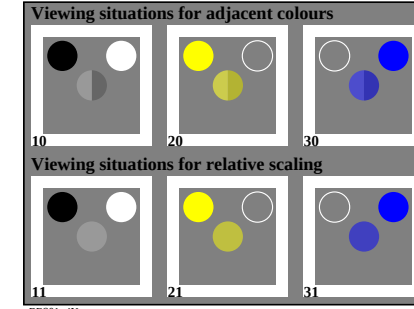
BES00-3N



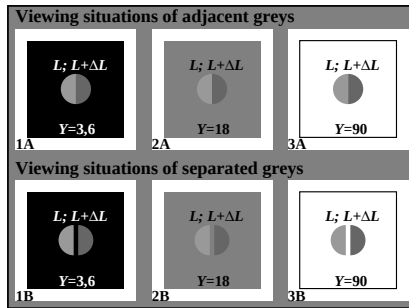
BES00-4N



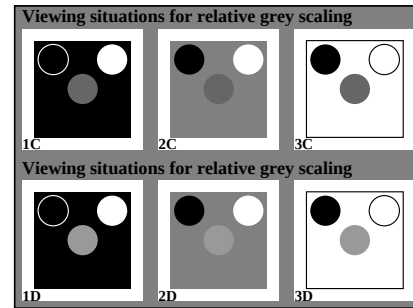
BES01-3N



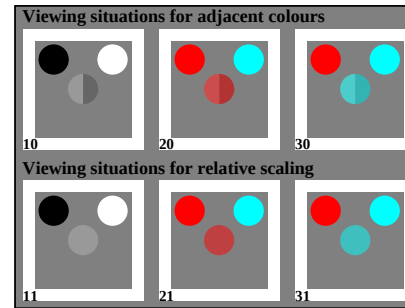
BES01-4N



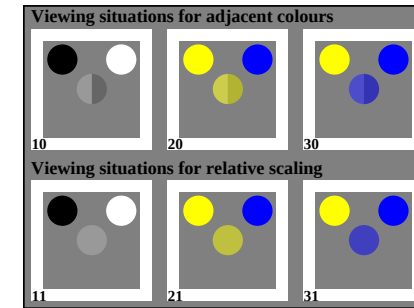
BES00-5N



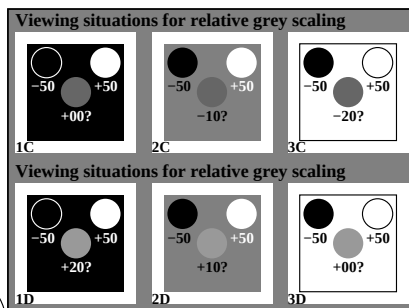
BES00-6N



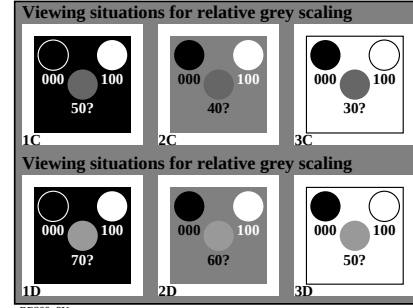
BES01-5N



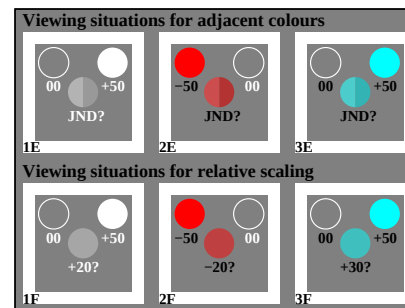
BES01-6N



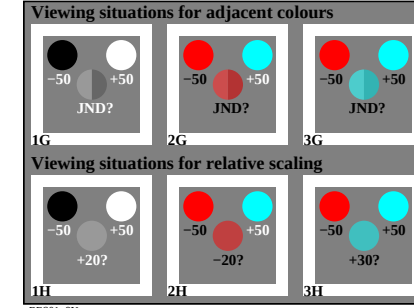
BES00-7N



BES00-8N



BES01-7N



BES01-8N

TUB-test chart BES0; Viewing situations of colours in 3 backgrounds, just noticeable differences (JND) and relative scaling of antagonistic colour pairs N-W, R-C, Y-B.