

Relative and scaled visual differences; triplets and pairs; 6 step interval scaling

relative visual scale $\Delta V_{3,i}$ ($i=0,1$) range 0 to 1

$$\Delta V_{3,i} = \frac{0}{0.70}, \frac{0.70}{1}, \frac{1}{W}$$

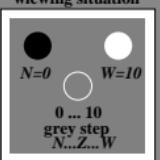
$$\Delta V_{3,i} = 0.20, 0.30, 0.70$$

$$\Delta V_{3,i} = 0.77 - 16.7 \cdot 21.7 = \Delta P_{0,i} / \Delta S^0$$

$$0.23 - 5.0 / 21.7 = \Delta P_{1,i} / \Delta S^0$$

$$(\text{pair comparison, } \Delta S^0 = \Delta P_{0,i} + \Delta P_{1,i})$$

wviewing situation



relative triplet scaling

pair comparison (P) to grey - turquoise

$$\Delta P_{0,i} : \Delta V_{R,i} = 10$$

$$\Delta P_{0,i} = 16.7$$

$$\Delta V_{R,i} = 15.2 - 0.7 \cdot 21.7 = \Delta V_{3,i} \cdot \Delta S^0$$

$$\Delta S^0 = 21.7 = 16.7 + 5.0$$

$$\Delta P_{1,i} = 5.0$$

$$\Delta V_{3,i} = 6.5 - 0.3 \cdot 21.7 = \Delta V_{3,i} \cdot \Delta S^0$$

$$\Delta V_{R,i} = 10.0$$

reference pair

relative visual scale $\Delta V_{6,i}$ ($i=0,4$) ranges N-Z and Z-W

$$\Delta V_{6,i} : \Delta P_{6,i} = 1 (=0,4)$$

$$\Delta V_{6,i} = \Delta P_{6,i} / \Delta V_{6,i}$$

$$\Delta V_{6,i} = 3.34$$

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$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 10.02$$

$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 13.36$$

$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 1.00$$

scaled visual data $\Delta V_{6,i} = \Delta V_{6,i} \cdot \Delta P_{6,i}$ ($i=0,4$)

$$\Delta V_{6,i} = \Delta V_{6,i} / \Delta V_{6,i}$$

$$\Delta V_{6,i} = \Delta V_{6,i} / \Delta V_{6,i}$$

$$\Delta V_{6,i} = 3.34$$

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$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 10.02$$

$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 13.36$$

$$\Delta V_{6,i} = 3.34$$

$$\Delta V_{6,i} = 1.00$$

Relative and scaled visual differences; triplets and pairs; 6 step interval scaling

relative visual scale $\Delta V_{3,i}$ ($i=0,1$) range 0 to 1

$$\Delta V_{3,i} = \frac{0}{0.60}, \frac{0.60}{0.40}, \frac{0.40}{1}, \frac{1}{M}$$

$$\Delta V_{3,i} = 0.56 - 14.3 \cdot 25.6 = \Delta P_{0,i} / \Delta S^0$$

$$0.44 - 11.3 \cdot 25.6 = \Delta P_{1,i} / \Delta S^0$$

$$(\text{pair comparison, } \Delta S^0 = \Delta P_{0,i} + \Delta P_{1,i})$$

wviewing situation



relative triplet scaling

pair comparison (P) to grey - turquoise

$$\Delta P_{0,i} : \Delta V_{R,i} = 10$$

$$\Delta P_{0,i} = 14.3$$

$$\Delta V_{R,i} = 15.4 - 0.6 \cdot 25.6 = \Delta V_{3,i} \cdot \Delta S^0$$

$$\Delta S^0 = 25.6 = 14.3 + 11.3$$

$$\Delta P_{1,i} = 11.3$$

$$\Delta V_{3,i} = 10.2 - 0.4 \cdot 25.6 = \Delta V_{3,i} \cdot \Delta S^0$$

$$\Delta V_{R,i} = 10.0$$

relative visual scale $\Delta V_{6,i}$ ($i=0,4$) ranges G-Z and Z-M

$$\Delta V_{6,i} : \Delta P_{6,i} = 1 (=0,4)$$

$$\Delta V_{6,i} = \Delta P_{6,i} / \Delta V_{6,i}$$

$$\Delta V_{6,i} = 2.86$$

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$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 8.58$$

$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 11.44$$

$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 4.52$$

$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 6.78$$

$$\Delta V_{6,i} = 2.86$$

$$\Delta V_{6,i} = 9.04$$

$$\Delta V_{6,i} = 2.86$$

TUB-test chart XE19; relative and scaled differences input: w/rgb/cmyk -> w/rgb/cmyk_ colour triplets and colour pairs; achromatic and green - magenta series

