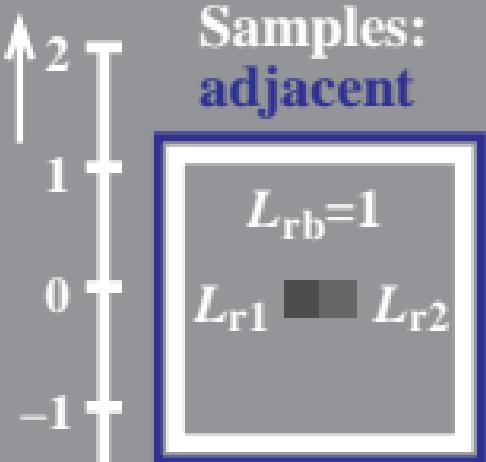


$$\log(\Delta L_r) = \log(|L_{r2} - L_{r1}|)$$

Adaptation to constant background luminance L_b

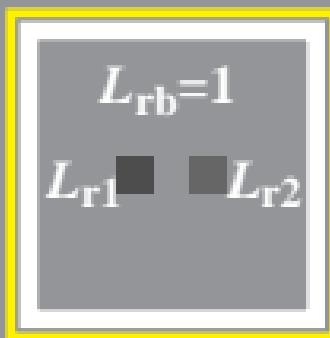


Weber law:

$$\log(\Delta L_{rw}) = \log L_r$$

$$\Delta L_{rw} / L_{aw} = \text{const}$$

Samples:
separated



Stevens law:

$$\log(\Delta L_{rs}) = 0,5 \log L_r$$

$$\Delta L_{rs} / L_{as} = \text{const}$$

$L_{rb}=1$ x_0 Office luminance range