

Raw judgments

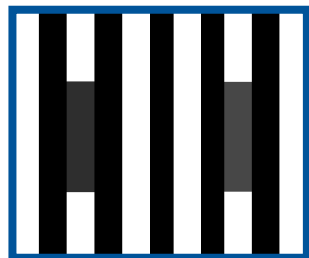
Decision model

Output: scales

trial

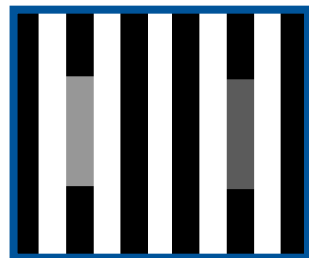
R

1



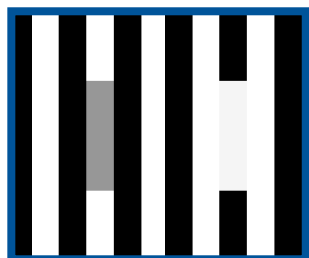
1

2



0

3



1

\vdots

$$\Delta = \Psi^{\{W,B\}R}(x_R) - \Psi^{\{W,B\}L}(x_L) + \epsilon$$

$$\epsilon \sim N(0, \sigma^2)$$

$$\Delta > 0 \rightarrow R = 1$$

$$\Delta < 0 \rightarrow R = 0$$

$$\Delta_1 = \Psi^W(x_6) - \Psi^W(x_4) + \epsilon$$

$$\Delta_2 = \Psi^B(x_3) - \Psi^B(x_6) + \epsilon$$

$$\Delta_3 = \Psi^B(x_8) - \Psi^W(x_4) + \epsilon$$

\vdots

