The Effect of Orientation-Specific Adaptation on Face Recognition

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Why Faces?
Selective Adaptation
Dakin & Watt (2009)
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Perceptual Psychology

- Perception controlled by neurons
- Faces are special

Visual Adaptation
- Face Info in Horizontal Bands

Our Experiment
Experiment 1
Adapting Stage

Horizontal Adaptation (1 min)

Vertical Adaptation (1 min)

Horizontal Adaptation (5 sec)

Vertical Adaptation (5 sec)

Testing Stage

Test Stimulus

Test Stimulus

Which face was the target?
Experiment 2

Pixel Stretch

-10  -5  0  5  10
Adapting Stage

Horizontal Adaptation (1 min)

Vertical Adaptation (1 min)

Testing Stage

Horizontal Adaptation (5 sec)

Vertical Adaptation (5 sec)

Test Stimulus

Was the face stretched horizontally or vertically?

Which face stretched horizontally or vertically?
Where to go from here