# What can we learn by studying behavior?

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What does it mean to process a face holistically?

Face inversion effect

Composite face effect

Whole-part effect

Role of features in the processing of faces?

Recognizing caricatures

Norm-based coding of faces

### What can we learn by studying behavior?

What information about a face do we store in our heads, that we can access when recognizing the face?

Nancy Kanwisher video: face recognition is "holistic"\*

What do you think it means to process a face "holistically"?

Why do we care??

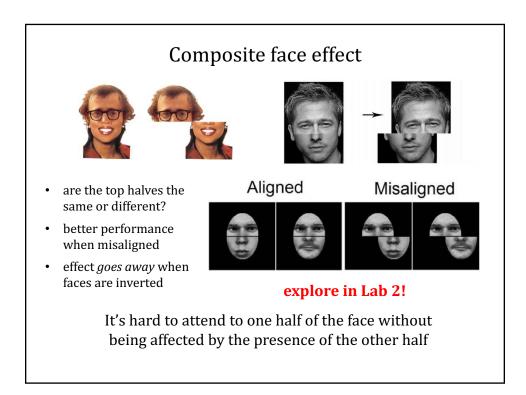


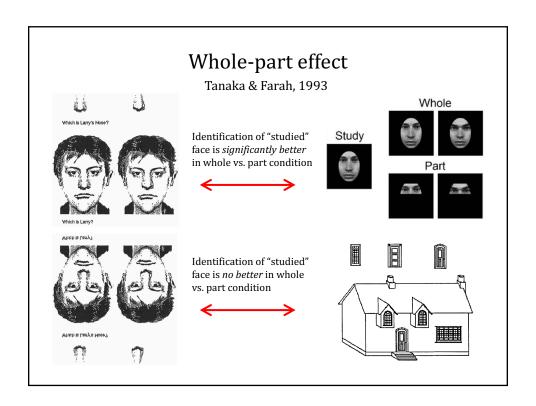


\*hypothesis

Let's examine the evidence...

# The face inversion effect The face inversion effect The face inversion effect Upright much greater drop in memory performance for upside-down faces than for other objects same for "unfamiliar" faces suggests faces are perceived or remembered differently?





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### But wait... what about face features?





Can you recognize these famous eyes?



Who are these guys?



What features of a face are most important for recognition?

... and why?



## Recognizing caricatures







Deviation of facial landmarks from "average" face are reduced by 30%







Deviation of facial landmarks from "average" face are increased by 30%

