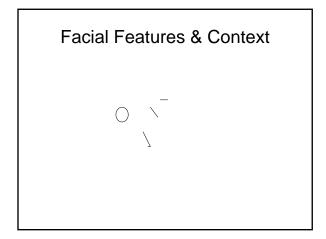
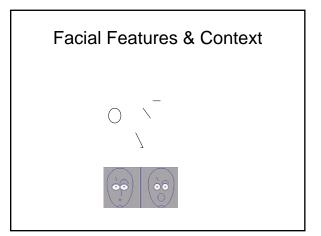


- It was found that the *eel was on the axle.
- It was found that the *eel was on the shoe.
- It was found that the *eel was on the orange.
- It was found that the *eel was on the table.





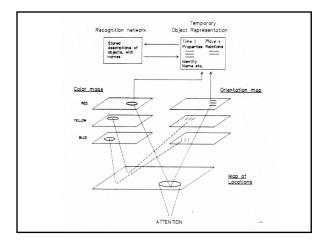
Feature Integration Theory:

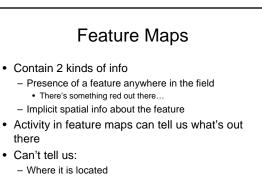
Basics Treisman (1988, 1993)

- Attention used to bind features together
- Code 1 object at a time based on location
- Bind together whatever features are attended at that location

FIT: Details

- Sensory "features" (color, size, orientation etc) coded in parallel by specialized modules
- Modules form two kinds of "maps" – Feature maps
 - Color maps, Orientation maps, etc.
 - Master map of locations





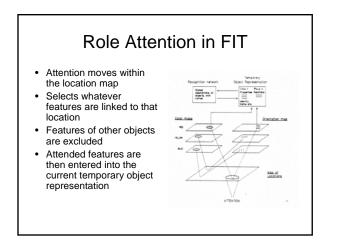
- What other features the red thing has

Master Map of Locations

• Codes where features are located, but not which features are located where

More FIT Details

- Need some way of:
 Locating features
 Binding appropriate features together
- [Enter Focal Attention]

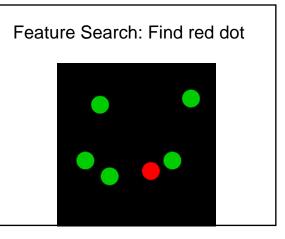


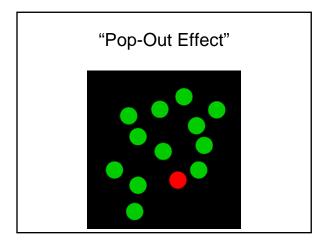
Feature Integration Theory

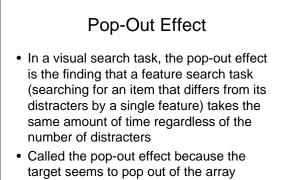
- Distinction btw objects and features
- Pre-attentional, parallel processing of features
- · Serial process of feature integration
- · Focused attention is "glue"

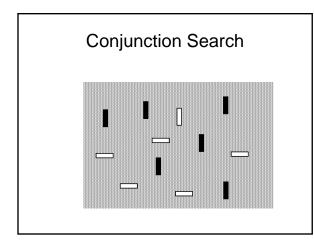
Evidence for FIT

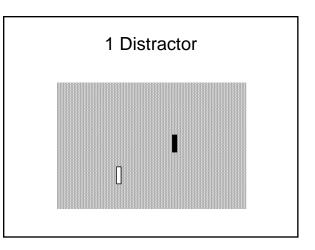
- Visual Search Tasks
- Illusory Conjunctions

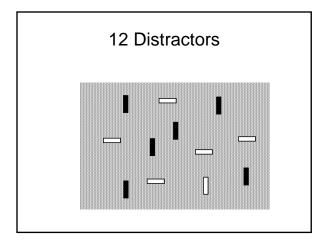


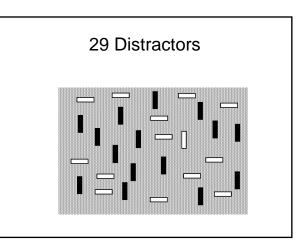


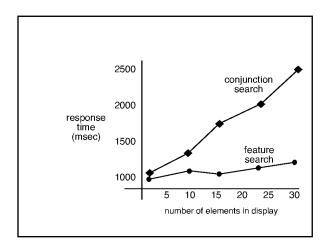


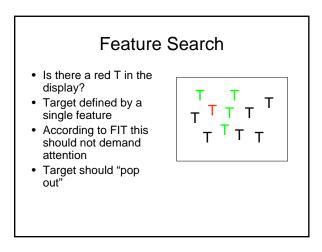


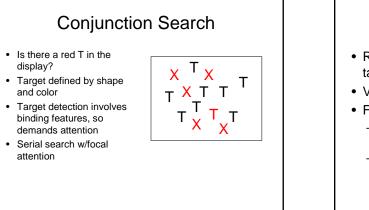












Visual Search Experiments

- Record time taken to determine whether target is present
- Vary the number of distracters
- · FIT predicts that
 - Feature search should be independent of the number of distracters
 - Conjunction search should get slower w/more distracters

