

Cognitive Psychology (EXP 4680)

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## **IMAGERY CHAPTER 7**

### **WHAT FORM DOES IMAGERY TAKE? 2 KINDS OF SYMBOLIC REPRESENTATIONS**

- **Analogical Code:**
  
- **Propositional Code:**

### **EVIDENCE FOR SIMILARITY BETWEEN MENTAL IMAGERY AND PERCEPTION**

#### **MENTAL ROTATION**

- **Shepard & Metzler's (1971) Classic Study on Mental Rotation:**



## PROPOSITIONAL REPRESENTATION

- **Pylyshyn's view**
  - He states that mental images are **epiphenomenal**, which means that images are simply tacked on later, after the item has been recovered from propositional storage.
  - Propositions
  
- **Chambers & Reisberg (1985)**
  - Procedure:
  
  - Results:
  
  - Interpretation of results:

## HOW MUCH PICTURE IN THE HEAD RESEMBLE REAL WORLD VISION?

- **Differences Between Imagery And Perception:**



- Release From Verbal Overshadowing
  - Kimberly Finger and Kathy Pezdek
    - Experiment 1:
  
  
  
  
  
  
  
  
  
  
    - Experiments 2 and 3

## **SOURCE MONITORING/REALITY MONITORING**

### **DEFINITIONS**

- Source monitoring (SM) "refers to a set of processes involved in making attributions about the origins of memories, knowledge, and beliefs." (Johnson, Hashtroudi, and Lindsay, 1993, p. 3).
- Reality Monitoring (type of source monitoring) process of deciding whether information was originally derived from an internal (thoughts/imagery) or external (perception) source.

### **EXAMPLES OF A COMMON SOURCE MONITORING PROBLEM**

- What are our cues to reality?
  
  
  
  
  
  
  
  
  
  
- It is thought that memories are not
  
  
  
  
  
  
  
  
  
  
- Externally generated memories

- Internally generated memories

### DEVELOPMENTAL RESEARCH ON REALITY MONITORING

- Developmental research.

### IMAGERY AND FALSE MEMORIES

#### Hyman & Pentland (1996)

- Some background:
  - Researchers have found a significant correlation ( $r = .36$ ) between Creative Imagination Scale (measure of imagery vividness and hypnotizability) and memory creation.
  - Guided mental imagery is a technique advocated as a memory recovery tool by therapist, counselors, and psychologist.
- Hyman & Pentland (1996):
  - **Procedure**
  - **Results**