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:*
IMAGERY AND SIZE

- Stephen Kosslyn's (1975):

- Kosslyn's Mental Map Experiments (Kosslyn, Ball, & Reiser, 1978; Jolicoeur & Kosslyn, 1985):
  - Criticism of methodology:
  - Experimenter Expectancy:
  - Symbolic Distance Effect:
    - Internal psychophysics:
    - Margaret Intons-Peterson (1992):
      - Auditory imagery:

- Pavio (1975): Clock Study
**PROPOSITIONAL REPRESENTATION**

- **Pylvshyn'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:**
• **Similarity in brain stimulation/activation?**

• **Kerr (1983):** Ask congenitally blind Ss to use imagery.

• **Forming visual images can both interfere with or facilitate seeing.**
  
  • **Facilitation Study:**
    - imagined an H
    - imagined a T
    - did not imagine

  • **Facilitation effect:**

• **Picture-superiority effect**

• **Verbal Overshadowing:**
  
  • **Eyewitness Identification:**

• **Melcher & Schooler (1996):**
- 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

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- 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