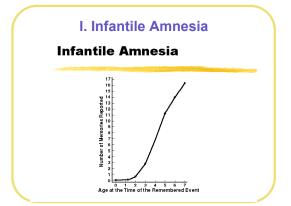
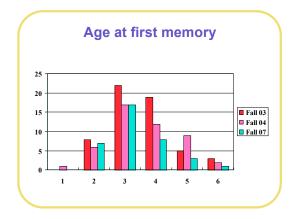
Memory

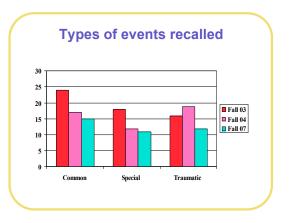
IIE 366: Developmental
Psychology
Greg Francis
Lecture 17

- Infantile Amnesia
- Age Differences in Memory in Childhood and Adolescence
- III. The Role of Strategies
- IV. The Role of Knowledge
- V. Putting It All Together









Explanations for infantile amnesia

- Encoding failure? No.
- Encoding specificity: sensory-motor to language encoding
- Sense of self
- Emergence of socially-shared autobiographical memory
- Brain maturation

Measuring memory

- Memory span
 - how many items can you correctly recall immediately after exposure?
- "The magic number 7+/-2:..."
 - Miller (1956)

Types of memory

- There exist two types of memory systems
- Long Term Memory (LTM)
 - high capacity (no limit)
 - long duration (forever)
- Short Term Memory (STM)
 - ◆ small capacity (~7 items)
 - short duration (seconds)

II. Age Differences in Memory during Childhood and Adolescence

Digit Span at Different Ages	
Age	span
2.5	2
6	4.5
7	5
9	6
12	6.5
adults	7

III. The Role of Strategies

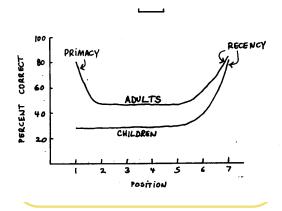
- A. Developmental Change in Use of Strategies
- B. The Impact of Metamemory
- C. The Influence of School

A. Developmental Change in Use of Strategies 6 62 624 624

624195 6241950

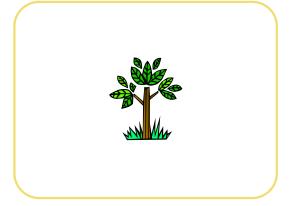
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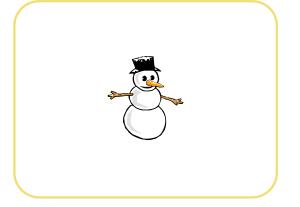


Judgment of Recency Task

- Presentation: 1, 2, 3, 4....100
- Test:
 - •51 vs 54
 - •80 vs 85
 - •20 vs 40

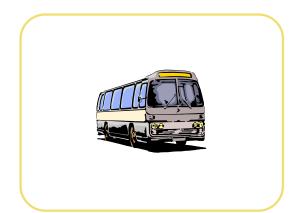


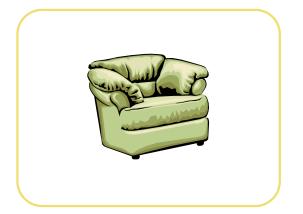


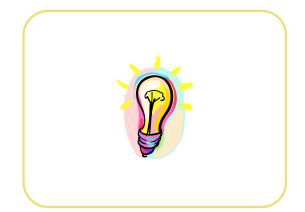


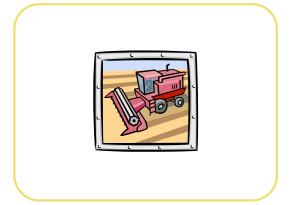




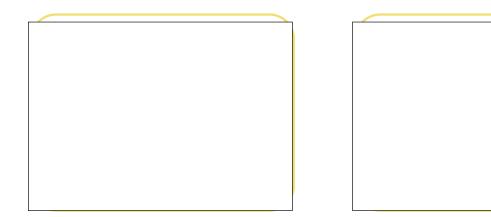






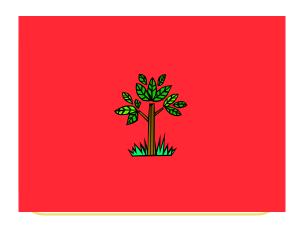


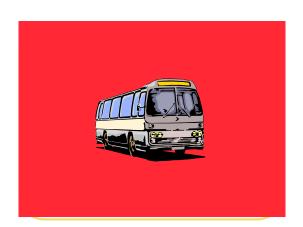


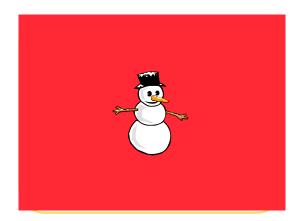


A Slightly Different Judgment of Recency Task





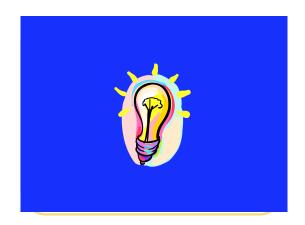




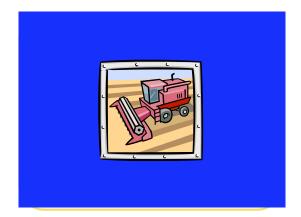


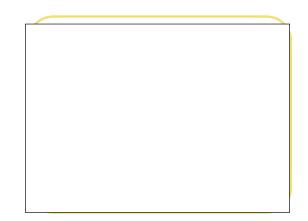






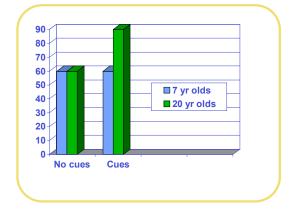






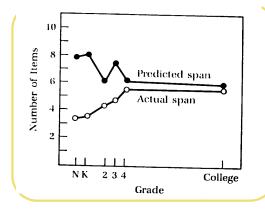
A Slightly Different Judgment of Recency Task

- Presentation: 1, 2, 3, 4...50 [on a blue background]...51, 52, 53...100 [on an orange background]
- Test
 - •46 vs 48 (no cues)
 - •52 vs 54 (no cues)
 - •49 vs 51 (cues)



III. A. The Impact of Metamemory

- Metamemory refers to a person's informal knowledge and beliefs about how memory works and their own abilities as a memorizer.
- Young children have limited metamemory, which explains why they often don't use strategies when they should do so.
- Example: digit span



III. B. The Influence of School

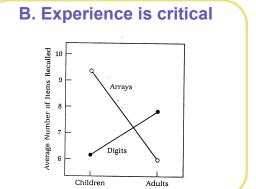
- What experiences promote the growth of metamemory?
- Going to school, where tests are given frequently.
- Cross-cultural data.

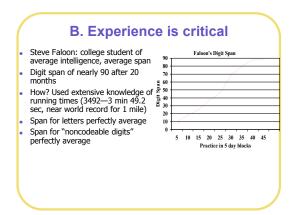
IV. The Role of Knowledge

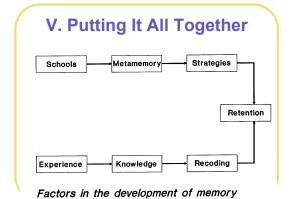
- A. The more you know, the more you can remember
- B. Experience is critical

A. The more you know, the more you can remember

nnccbasbccbn ????? nbc cbs abc cnn







Next time

- Intelligence
- Intelligence tests
- Heredity and environment
- Cultural differences