Retrieval- Getting Information Out

Recall

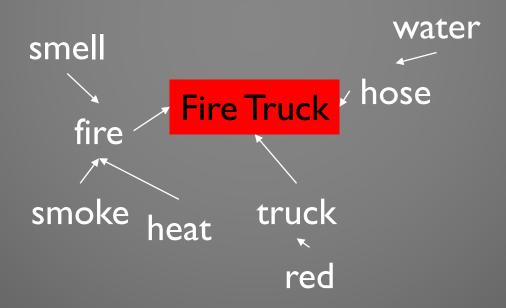
 the ability to retrieve info learned earlier and not in conscious awareness-like fill in the blank test

Recognition

 the ability to identify previously learned items-like on a multiple choice test

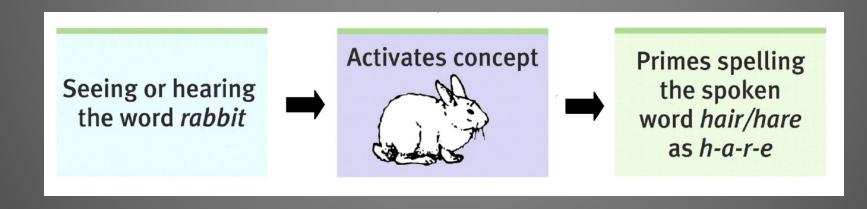
RETRIEVAL CUES

Memories are held in storage by a web of associations. These associations are like anchors that help retrieve memory.



PRIMING

To retrieve a specific memory from the web of associations, you must first activate one of the strands that leads to it. This process is called priming.



Retrieval

- Relearning
 - amount of time saved when relearning previously learned information

Retrieval Cues

- Deja Vu- (French) already seen
 - cues from the current situation may subconsciously trigger retrieval of an earlier similar experience
 - "I've experienced this before"
- Mood Congruent Memory
 - tendency to recall experiences that are consistent with one's current mood
 - memory, emotions or moods serve as retrieval cues
 - State Dependent Memory
 - what is learned in one state (while one is high, drunk or depressed) can more easily be remembered when in same state

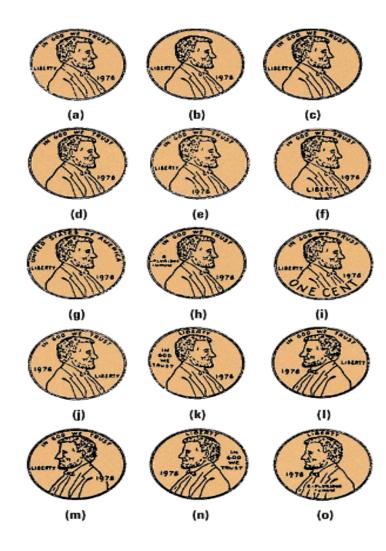
Forgetting

- Forgetting as encoding failure
- Information never enters the memory system
- Attention is selective
 - we cannot attend to everything in our environment
- William James said that we would be as bad off if we remembered everything as we would be if we remembered nothing

Forgetting

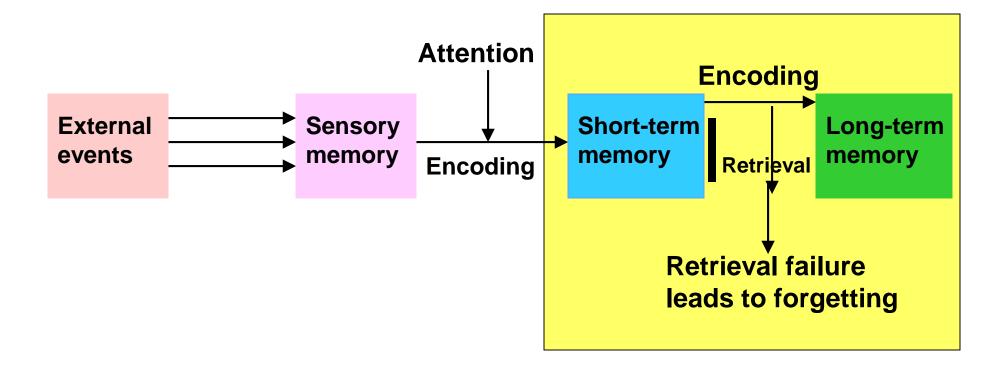
 Forgetting as encoding failure

Which penny is the real thing?



Retrieval

 Forgetting can result from failure to retrieve information from long-term memory



Forgetting as Interference

- Learning some items may disrupt retrieval of other information
 - Proactive(forward acting) Interference
 - disruptive effect of prior learning on recall of new information
 - You move into a new house and at first you have trouble remembering your new address because you remember your old one.
 - Retroactive (backwards acting) Interference
 - disruptive effect of new learning on recall of old information
 - Eventually you will remember the new address and have trouble remembering the old one.

ODD APTERMS! SAY WHAAAA?

Prospective Memory

- Involves remembering to perform a planned action or intention at the appropriate time
 - Remembering to put the toothpaste cap back on
 - remembering to reply to an email
 - remembering to return a red-box movie
 - remembering to take medication



Retrospective Memory

- Involves memory of people, events and words that have been encountered in the past.
- Events that have PREVIOUSLY OCCURRED (RETRO BABY!)





Forgetting

- Forgetting can occur at any memory stage
- As we process information, we filter, alter, or lose much of it

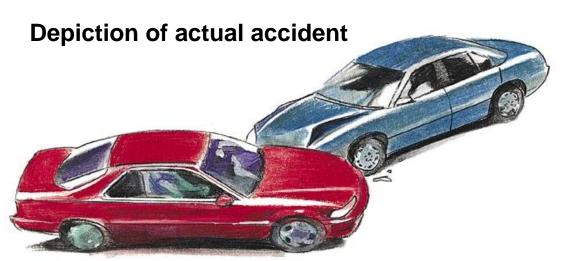
Forgetting-Interference

- Motivated Forgetting
 - people unknowingly revise history
- Repression
 - defense mechanism that banishes anxietyarousing thoughts, feelings, and memories
- Positive Transfer
 - sometimes old information facilitates our learning of new information
 - knowledge of Latin may help us to learn French

MEMORY EFFECTS

- Next-in-line-Effect: You cannot remember what the person in line before you said because you were thinking about your own answer.
- 2. Spacing Effect: We retain information better when we rehearse over time.
- 3. Serial Position Effect: When your recall is better for first and last items on a list, but poor for middle items.
 - Primacy effect—better recall of items at the beginning of a list
 - Recency effect—better recall of items at the end of a list

- We filter information and fill in missing pieces
- Misinformation Effect
 - incorporating misleading information into one's memory of an event
- Source Amnesia
 - attributing to the wrong source an event that we experienced, heard about, read about, or imagined (misattribution)



Eyewitnesses
reconstruct
memories when
questioned

Leading question:

"About how fast were the cars going when they **smashed** into each other?"



- People fill in memory gaps with plausible guesses and assumptions
- Imagining events can create false memories

- Memories of Abuse
 - Repressed or Constructed?
 - Some adults do actually forget such episodes
- False Memory Syndrome
 - condition in which a person's identity and relationships center around a false but strongly believed memory of traumatic experience
 - sometimes induced by well-meaning therapists

- Most people can agree on the following:
 - Injustice happens
 - Forgetting happens
 - Recovered memories are commonplace
 - Memories recovered under hypnosis or drugs are unreliable
 - Memories of things happening before age 3 are unreliable
 - Memories, whether false or real, are upsetting