Memory

Objective's for Today's Class: Why do we forget? What is amnesia?

If you couldn't forget, your mind would be filled with meaningless data.

The ability to forget is essential to the proper functioning of memory

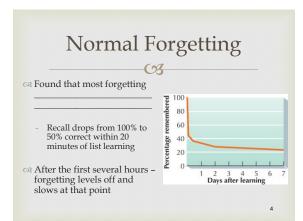
Normal Forgetting

R Memory traces gradually decay

 During any delay a memory is subject to the effects of time and interference from other experiences

R Decay: _

Remories seem to be forgotten because we no long have the _____





If we forget so quickly, why put effort into learning something?

CB

Researchers have demonstrated that forgetting is

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- Studied only meaningless nonsense syllables.



Reasons for Forgetting

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- Through the lack of use and rehearsal information is gone

Retrieval failure

- Proactive interference
- Retroactive interference

Proactive Interference

- A decrease in accurate recall of information as a result of previously learned information.
- Old material increases forgetting of the new material



Proactive Interference

Aubrie recently ended a long-term relationship but has found a new love. They are out a third date... The lights are low, the champagne and strawberries are served. The music in the restaurant is soft and romantic – Aubrie reaches across the table to take her date's hand. She looks deeply into his eyes, about to tell him what a wonderful evening it is and how happy she is to be out with him and then out of her mouth, before she realizes it, comes – the name of her ex!!!

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Retroactive Interference

Rew information interferes with recall of old information

- New material increase forgetting of the older material

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Retroactive Interference

Pretend that you've been sneaking around on your long-term girlfriend/boyfriend for a couple of months. One day, while talking to your significant other in some casual context, you address them by the name of your secret lover.

○<u>New</u> information has interfered with your recall of older information.



Decay theory suggests that the passage of time always increases forgetting.

This theory suggests that when we learn something new, a neurochemical memory trace forms, but





Amnesia

- People with amnesia tend to have poor factual memories, but ______
 - Amnesiacs show preserved performance on tests of implicit memory (which do not require conscious recollection for successful performance)
 - On tests of explicit memory, amnesiacs show much more severely impaired performance (requires that the individual recognize the correct answer and be aware that long-term memory is being tapped)

Two Types of Amnesia

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involves memory loss for a segment of the past but not for

- Retrograde amnesia is much more common than anterograde amnesia
 - frequently occurs when the brain is assaulted by an electrical shock or a physical blow such as a head injury to a football player.



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Two Types of Amnesia



- a memory disorder that affects the
- People who find it hard to remember ongoing events after suffering damage to the head
- They do not tend to forget their childhood or who they are, but have trouble remembering day-to-day events



Are Memories Accurate?

Memory is not a perfect reflection of reality. Memory is like the water in this glass. One drop of color, which represents experiences in the world, can change the memory completely.

Many people have memories for events that could not have happened

People have the ability to create false memories through simple suggestion

False Memories

B

Many of our memories are incorrect because memory is so susceptible to outside influence. This is not a flaw in our memory system...we all have false memories.