

# 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.

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# Normal Forgetting

- Memory traces gradually decay
  - During any delay a memory is subject to the effects of time and interference from other experiences

Memories seem to be forgotten because we no long have the appropriate reminders
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# Reasons for Forgetting Through the lack of use and rehearsal information is gone Retrieval failure Interference Proactive interference Retroactive interference Proactive Interference A decrease in accurate recall of information as a result of previously learned information. Example A student studies for a psychology test on Saturday and a sociology test on Sunday. It is Monday and the student is taking the sociology test. He has trouble remembering the sociology information because he confuses it with the psychology information. The psychology information was learned first The sociology information was learned second The first information interfered with remembering the second information



#### Proactive Interference

Aubrie recently ended a long-term relationship but has found a new love. They are out an the all-important third date with her new man. 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

New material increase forgetting of the older material

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- A student studies for a psychology test on Saturday and a sociology test on Sunday. It is Monday and the student is taking the psychology test. He has trouble remembering the psychology information because he confuses it with the sociology information.
  - The psychology information was learned first
  - The sociology information was learned second
  - The second information interfered with remembering the first information

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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.
- New information has interfered with your recall of older information.

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

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## Prospective memory

- Involves remembering information about doing
  - Prospective memory includes both *timing*—when we have to do something—and *content*—what we have to do.
  - We are more absentminded when we become preoccupied with something else,



#### Amnesia

- People with amnesia tend to have poor factual memories,
  - 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)

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# Two Types of Amnesia

- 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 Amne	sia
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People who find it hard to remember ongoing events after suffering damage to the head

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# Are Memories Accurate?