


Module 6: Learning and Memory

Topic 3 Content: Retrieval

Introduction

Retrieval



Click *NEXT* to hear the conversation.


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Hannah

Retrieval



Click **NEXT** to hear the conversation.



"Cindy! Do you remember last year when we went to that amusement park?"


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Cindy


Retrieval



Click **NEXT** to hear the conversation.



"Cindy! Do you remember last year when we went to that amusement park?"



"Of course I do. That was so much fun! When I close my eyes, I can still smell the cotton candy, feel my heart racing when we went down that drop on the roller coaster, and hear the little kids squealing with excitement as the clown made those balloon animals."

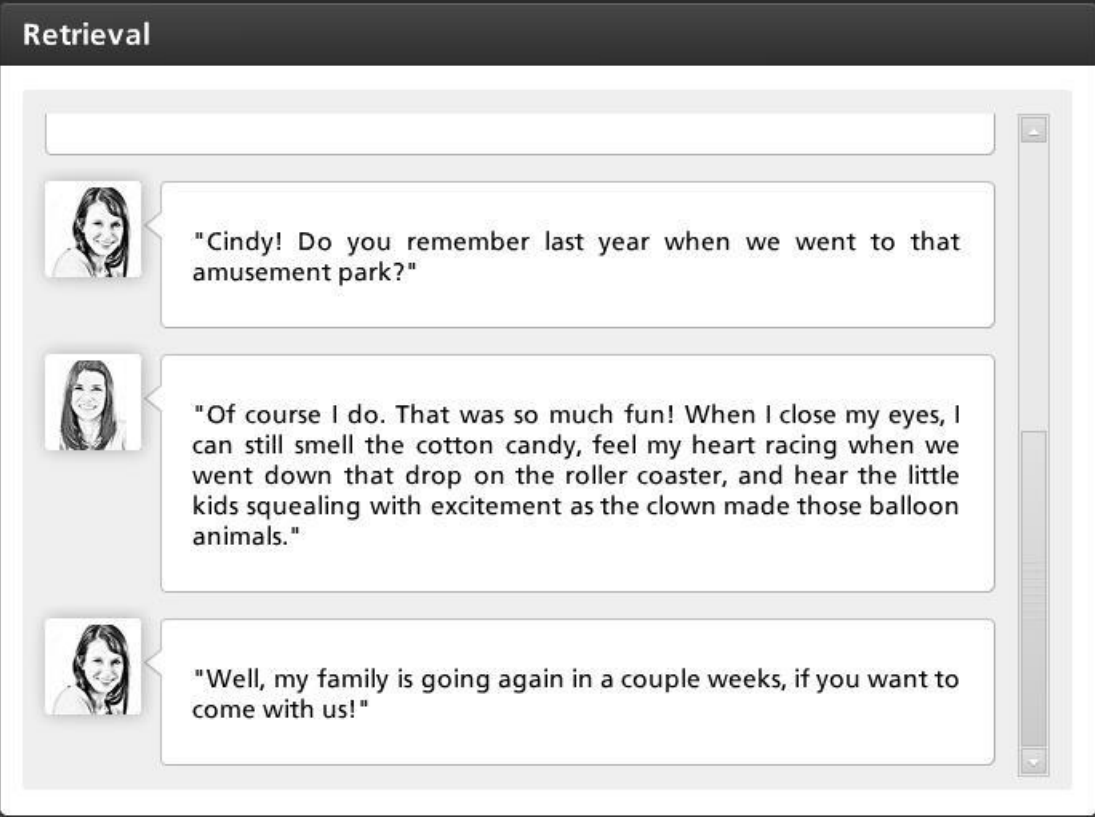
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Hannah

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"Of course I do. That was so much fun! When I close my eyes, I can still smell the cotton candy, feel my heart racing when we went down that drop on the roller coaster, and hear the little kids squealing with excitement as the clown made those balloon animals."

"Well, my family is going again in a couple weeks, if you want to come with us!"

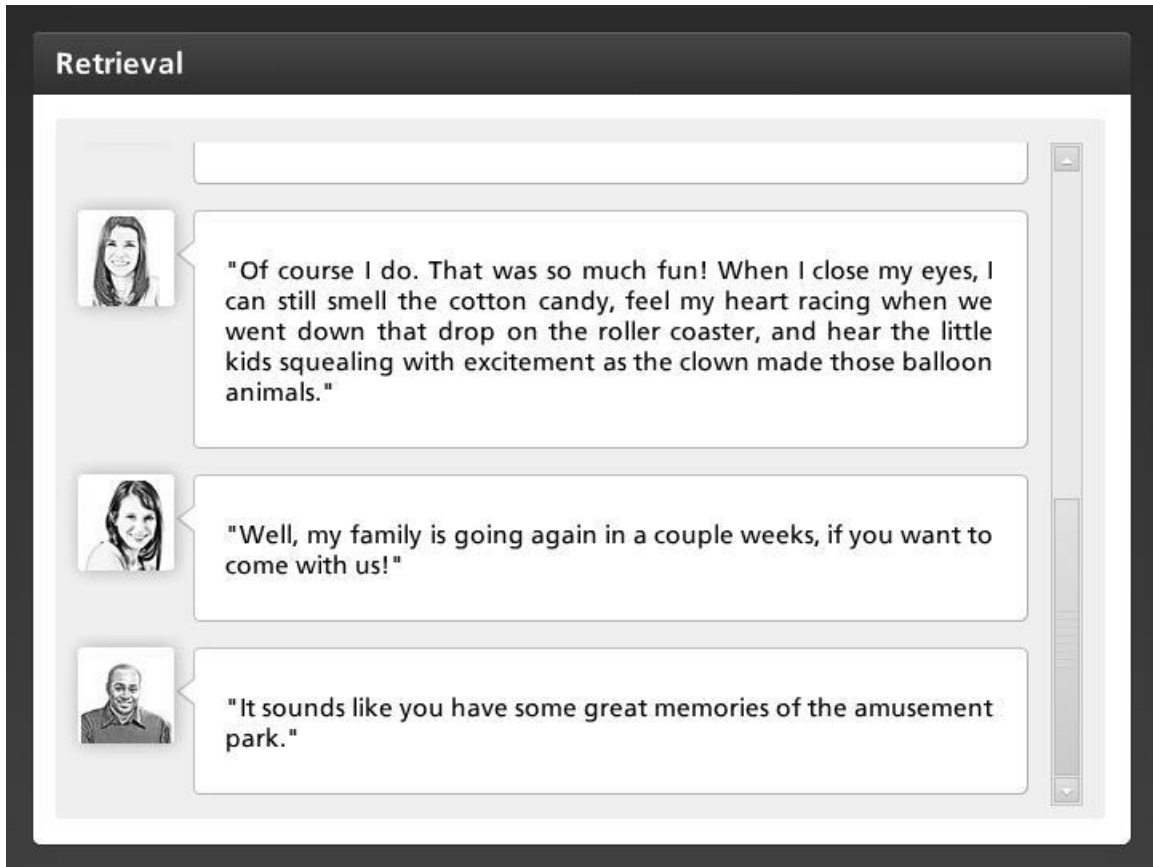
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Mr. Baker

Retrieval



The screenshot shows a chat window with a title bar that says "Retrieval". There are three messages in the chat, each with a small profile picture of a person on the left and a text bubble on the right. The first message is from a woman with long dark hair, the second from a woman with short dark hair, and the third from a man with short dark hair. The text bubbles are white with a light gray border and a small tail pointing to the profile picture. The chat window has a vertical scrollbar on the right side.

"Of course I do. That was so much fun! When I close my eyes, I can still smell the cotton candy, feel my heart racing when we went down that drop on the roller coaster, and hear the little kids squealing with excitement as the clown made those balloon animals."

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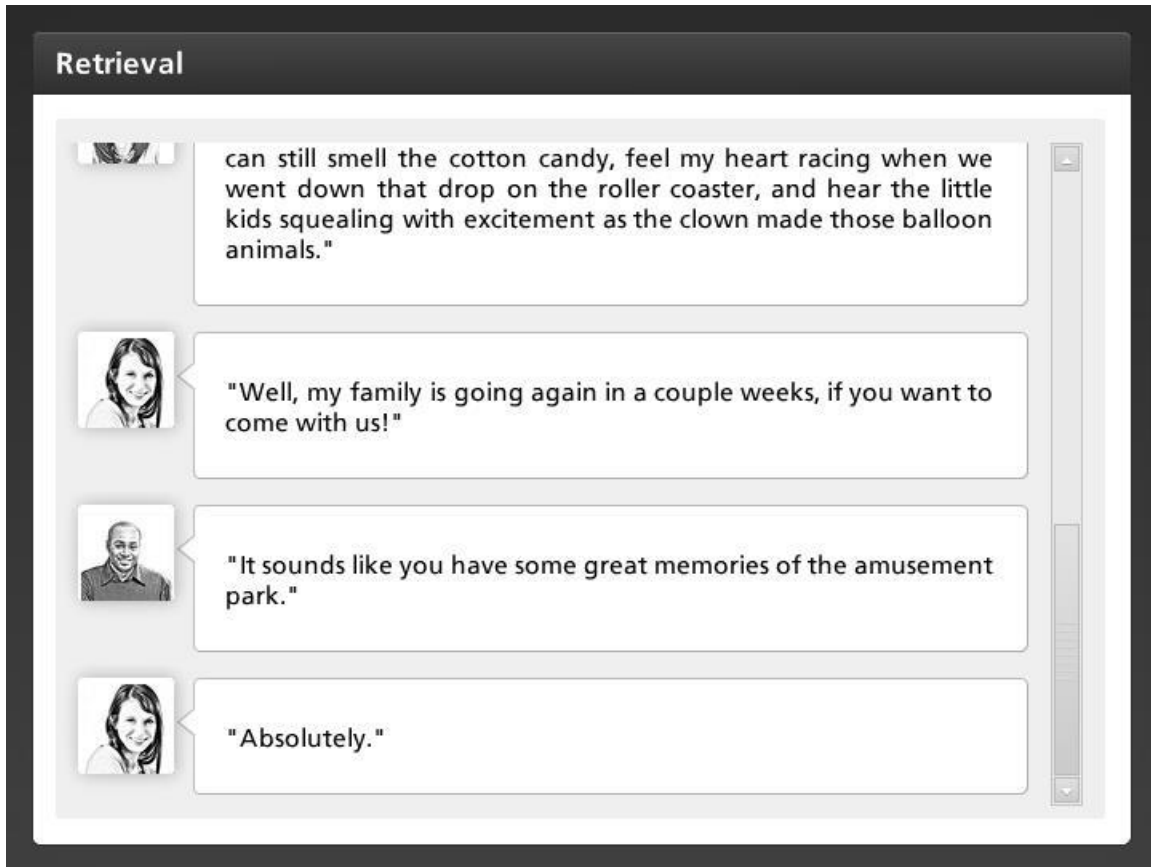
"It sounds like you have some great memories of the amusement park."

"It sounds like you have some great memories of the amusement park."

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Hannah



The screenshot shows a chat window with a title bar that says "Retrieval". On the left side, there are four small profile pictures of people. The chat messages are as follows:

- Message 1: "can still smell the cotton candy, feel my heart racing when we went down that drop on the roller coaster, and hear the little kids squealing with excitement as the clown made those balloon animals."
- Message 2: "Well, my family is going again in a couple weeks, if you want to come with us!"
- Message 3: "It sounds like you have some great memories of the amusement park."
- Message 4: "Absolutely."

A vertical scrollbar is visible on the right side of the chat area.

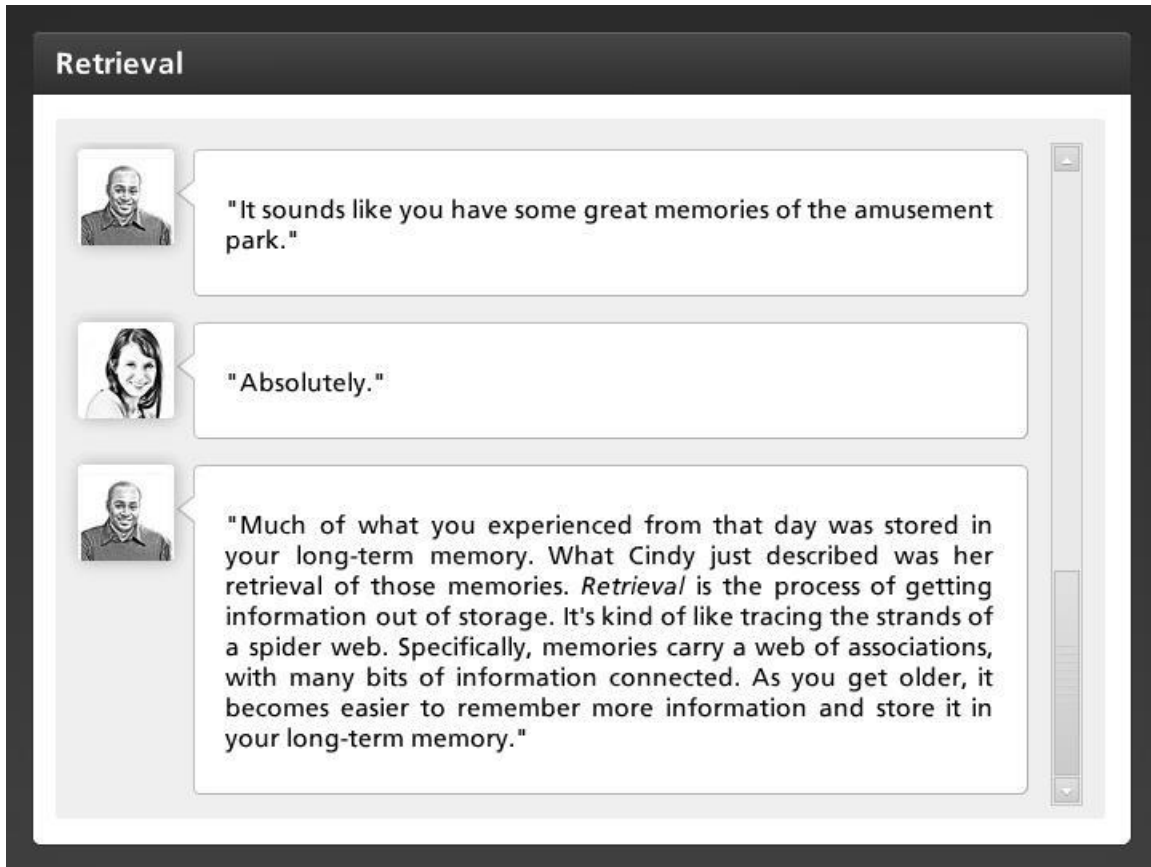
"Absolutely."

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"It sounds like you have some great memories of the amusement park."

"Absolutely."

"Much of what you experienced from that day was stored in your long-term memory. What Cindy just described was her retrieval of those memories. *Retrieval* is the process of getting information out of storage. It's kind of like tracing the strands of a spider web. Specifically, memories carry a web of associations, with many bits of information connected. As you get older, it becomes easier to remember more information and store it in your long-term memory."

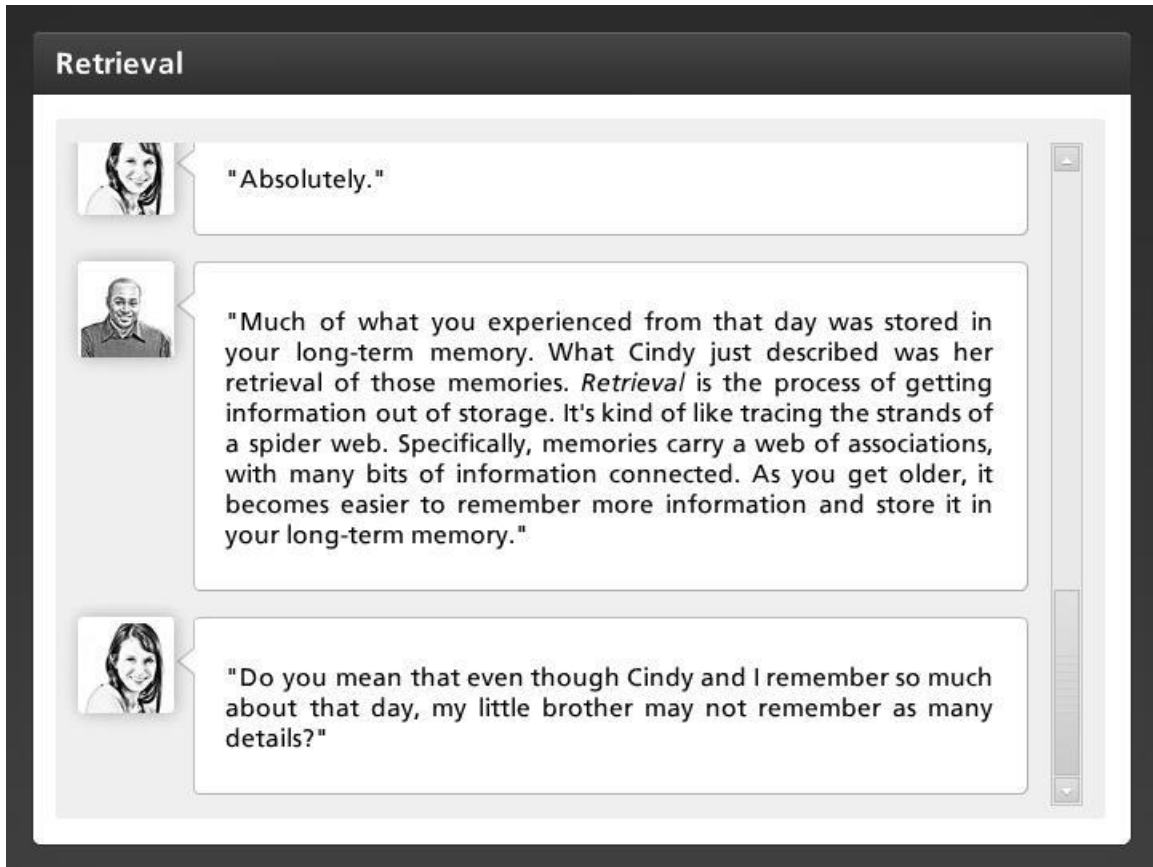
"Much of what you experienced from that day was stored in your long-term memory. What Cindy just described was her retrieval of those memories. *Retrieval* is the process of getting information out of storage. It's kind of like tracing the strands of a spider web. Specifically, memories carry a web of associations, with many bits of information connected. As you get older, it becomes easier to remember more information and store it in your long-term memory."

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Hannah

Retrieval



The screenshot shows a chat interface with a dark header containing the word "Retrieval". Below the header, there are three messages in a light-colored chat bubble area. Each message has a small circular profile picture on the left. The first message is from a woman and says "Absolutely.". The second message is from a man and explains that much of the day's experience was stored in long-term memory and that retrieval is the process of getting information out of storage, comparing it to tracing a spider web. The third message is from the same woman and asks if her little brother might not remember as many details as she and Cindy do.

"Absolutely."

"Much of what you experienced from that day was stored in your long-term memory. What Cindy just described was her retrieval of those memories. *Retrieval* is the process of getting information out of storage. It's kind of like tracing the strands of a spider web. Specifically, memories carry a web of associations, with many bits of information connected. As you get older, it becomes easier to remember more information and store it in your long-term memory."

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Mr. Baker

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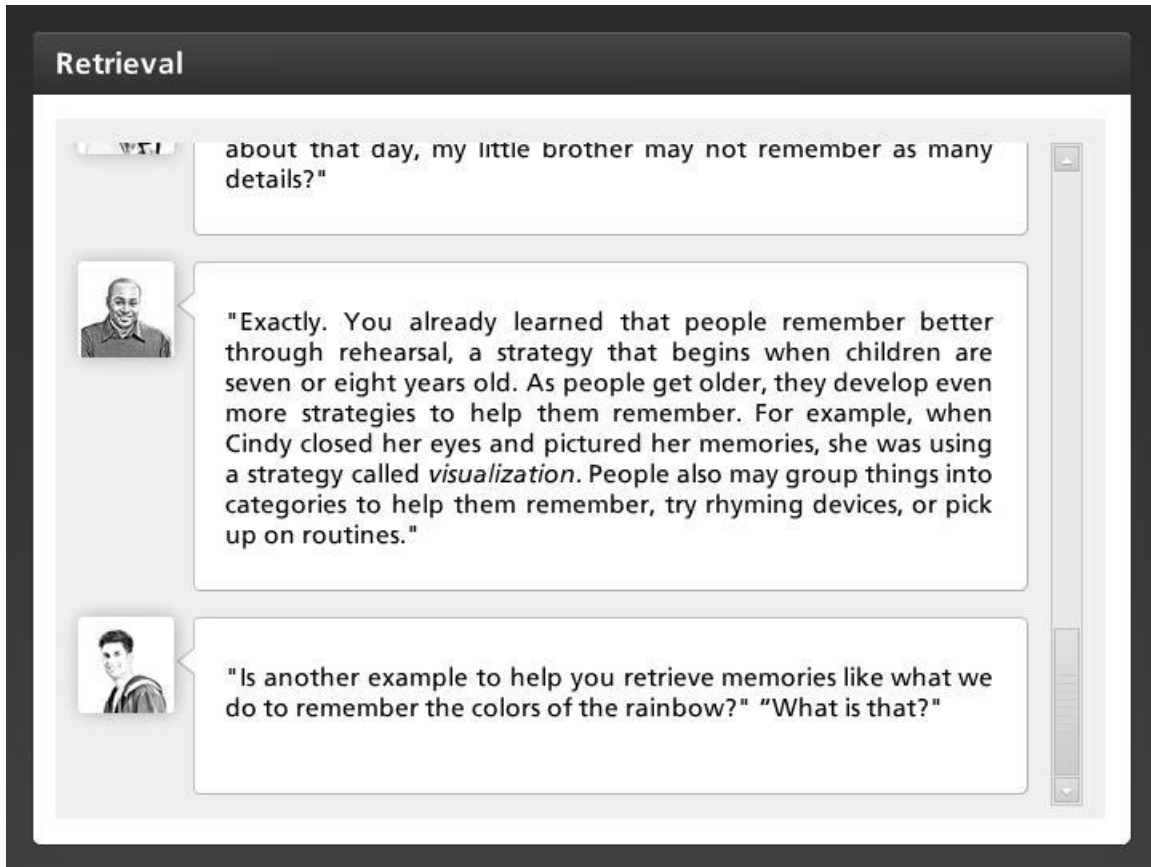
"Exactly. You already learned that people remember better through rehearsal, a strategy that begins when children are seven or eight years old. As people get older, they develop even more strategies to help them remember. For example, when Cindy closed her eyes and pictured her memories, she was using a strategy called *visualization*. People also may group things into categories to help them remember, try rhyming devices, or pick up on routines."

"Exactly. You already learned that people remember better through rehearsal, a strategy that begins when children are seven or eight years old. As people get older, they develop even more strategies to help them remember. For example, when Cindy closed her eyes and pictured her memories, she was using a strategy called *visualization*. People also may group things into categories to help them remember, try rhyming devices, or pick up on routines."

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Marcos



The screenshot shows a chat window with a dark header containing the word "Retrieval". The chat area has a light background and contains three messages. The first message is a question from a user with a small profile picture. The second message is a detailed answer from a user with a larger profile picture, explaining memory strategies like rehearsal and visualization. The third message is a follow-up question from the first user.

Retrieval

about that day, my little brother may not remember as many details?"

"Exactly. You already learned that people remember better through rehearsal, a strategy that begins when children are seven or eight years old. As people get older, they develop even more strategies to help them remember. For example, when Cindy closed her eyes and pictured her memories, she was using a strategy called *visualization*. People also may group things into categories to help them remember, try rhyming devices, or pick up on routines."

"Is another example to help you retrieve memories like what we do to remember the colors of the rainbow?" "What is that?"

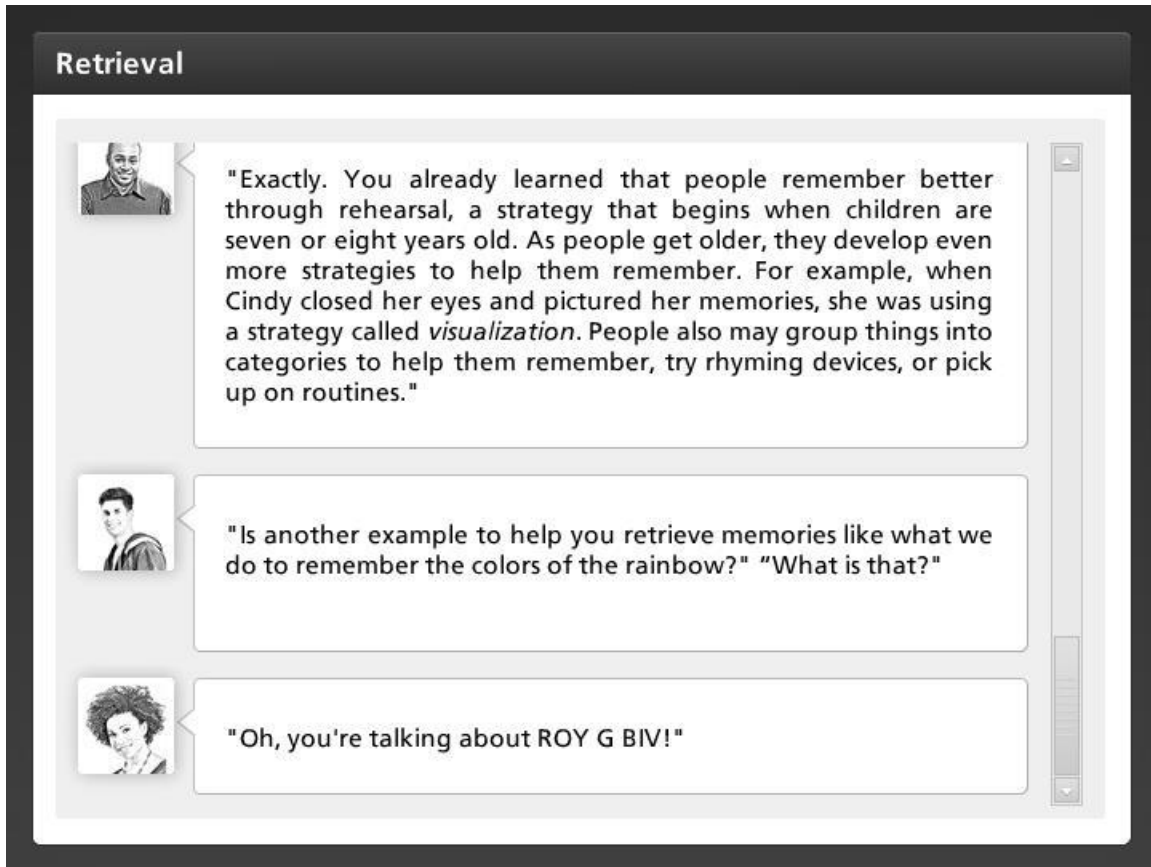
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Janelle

Retrieval



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Marcos

Retrieval

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 "Is another example to help you retrieve memories like what we do to remember the colors of the rainbow?" "What is that?"

 "Oh, you're talking about ROY G BIV!"

 "Yeah! Red, orange, yellow, green, blue, indigo, and violet!"

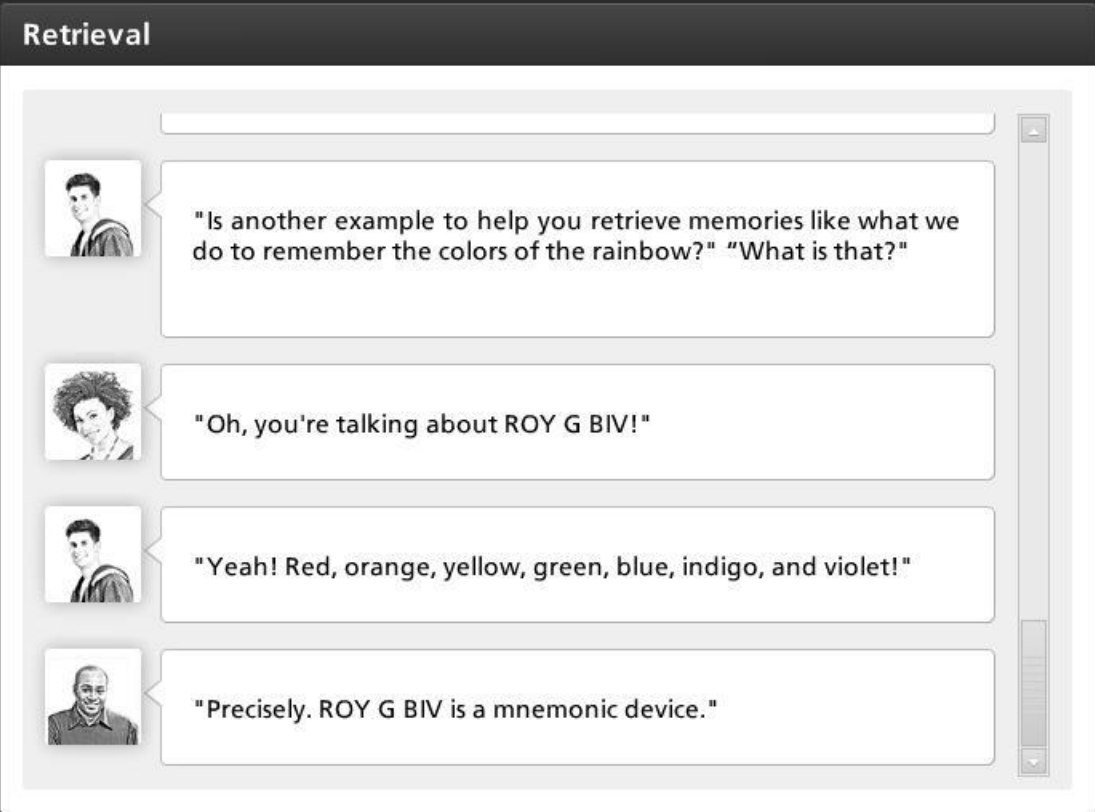
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Mr. Baker

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"Precisely. ROY G BIV is a mnemonic device."

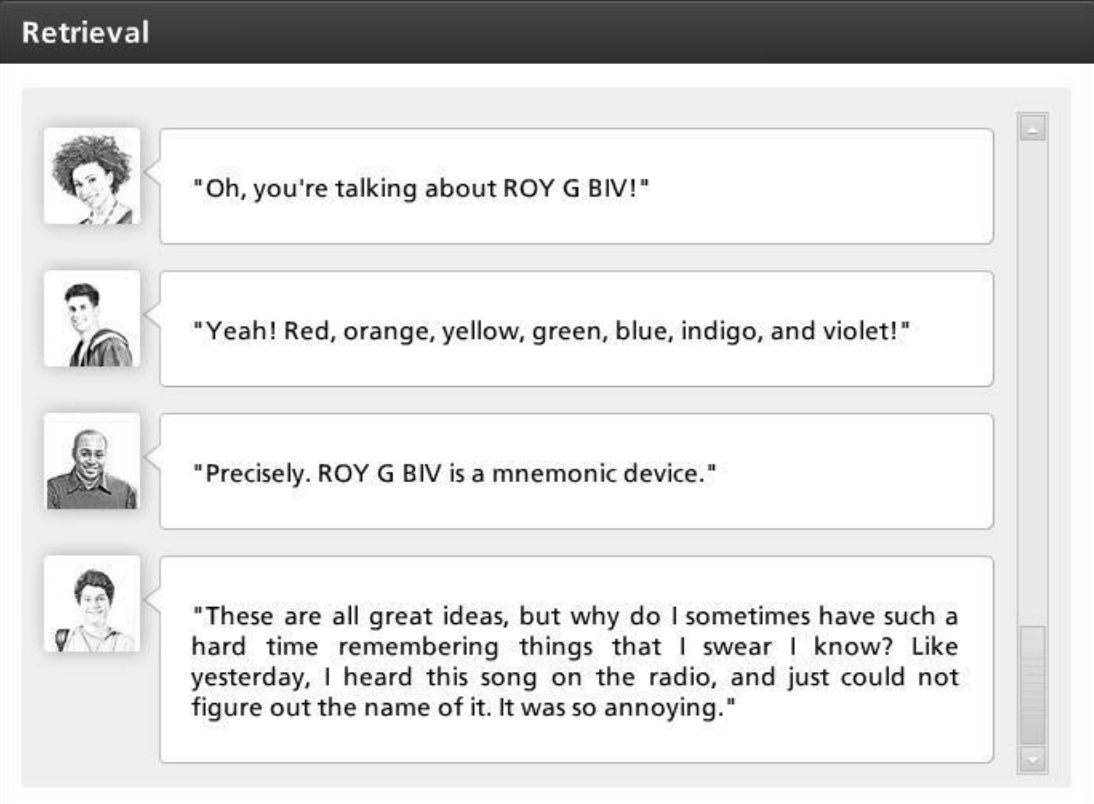
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Donnie

Retrieval



"Oh, you're talking about ROY G BIV!"

"Yeah! Red, orange, yellow, green, blue, indigo, and violet!"

"Precisely. ROY G BIV is a mnemonic device."

"These are all great ideas, but why do I sometimes have such a hard time remembering things that I swear I know? Like yesterday, I heard this song on the radio, and just could not figure out the name of it. It was so annoying."

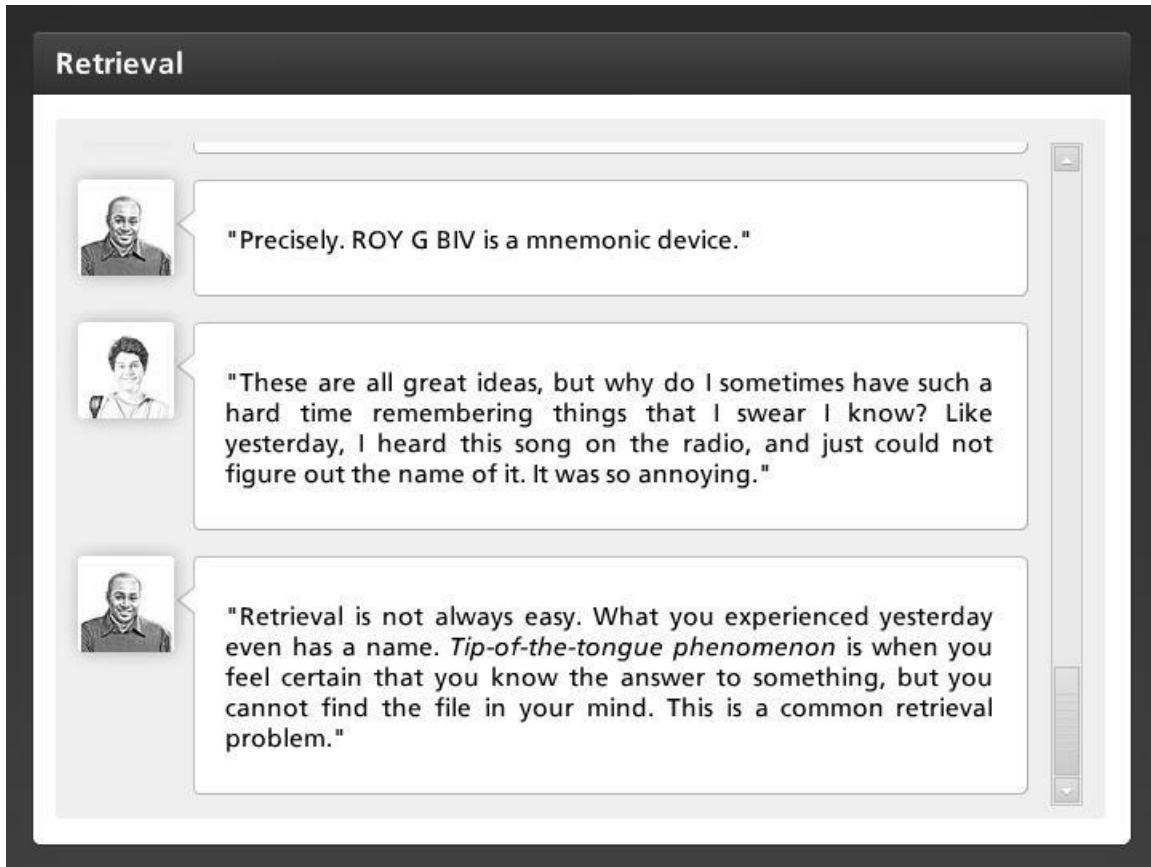
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Mr. Baker

Retrieval



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"These are all great ideas, but why do I sometimes have such a hard time remembering things that I swear I know? Like yesterday, I heard this song on the radio, and just could not figure out the name of it. It was so annoying."

"Retrieval is not always easy. What you experienced yesterday even has a name. *Tip-of-the-tongue phenomenon* is when you feel certain that you know the answer to something, but you cannot find the file in your mind. This is a common retrieval problem."

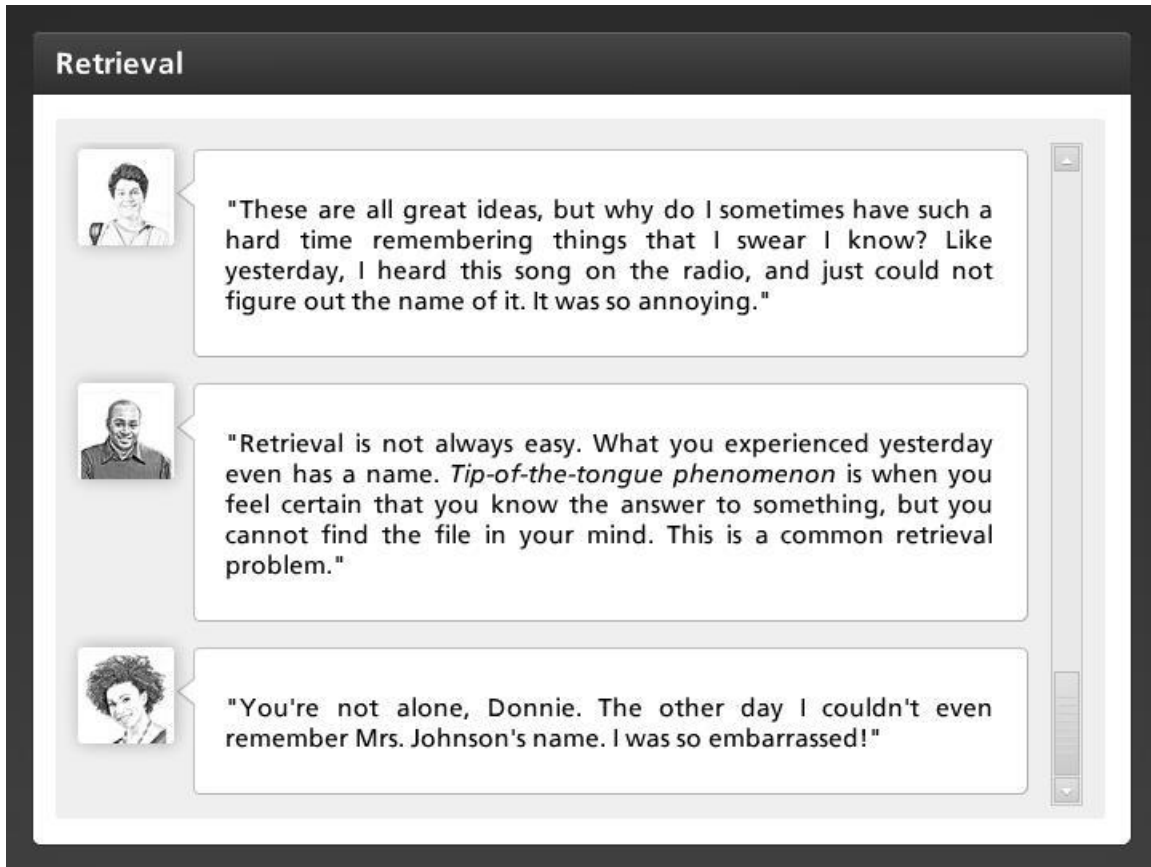
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Janelle

Retrieval



The screenshot shows a chat window with a title bar that says "Retrieval". There are three messages in the chat, each with a small profile picture of a person on the left and a text bubble on the right. The first message is from a man with short dark hair, the second from a man with a shaved head, and the third from a woman with curly hair. The text in the messages discusses memory retrieval and the tip-of-the-tongue phenomenon.

"These are all great ideas, but why do I sometimes have such a hard time remembering things that I swear I know? Like yesterday, I heard this song on the radio, and just could not figure out the name of it. It was so annoying."

"Retrieval is not always easy. What you experienced yesterday even has a name. *Tip-of-the-tongue phenomenon* is when you feel certain that you know the answer to something, but you cannot find the file in your mind. This is a common retrieval problem."

"You're not alone, Donnie. The other day I couldn't even remember Mrs. Johnson's name. I was so embarrassed!"

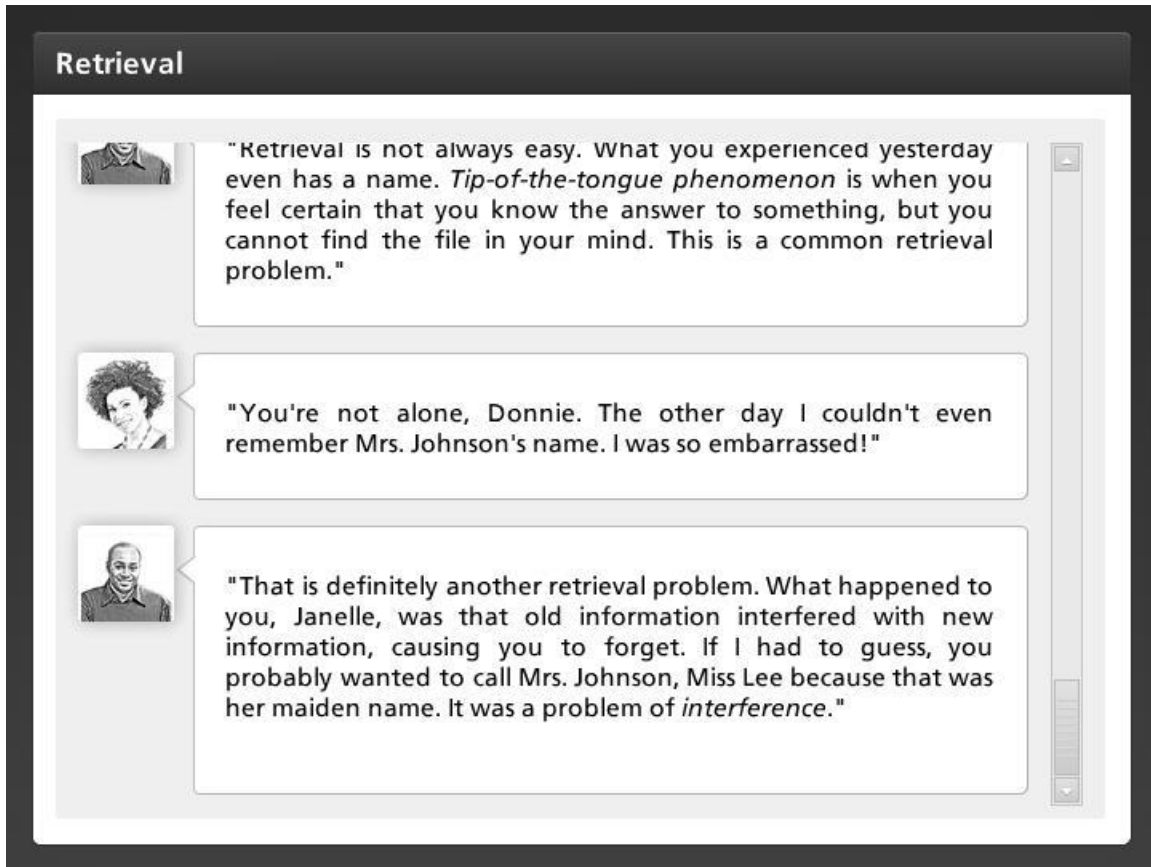
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Mr. Baker

Retrieval



The screenshot shows a chat window with a title bar that says "Retrieval". On the left side of the chat area, there are three small profile pictures of people. The first message is from a person with a dark shirt, explaining the tip-of-the-tongue phenomenon. The second message is from a woman with curly hair, sharing a personal experience of forgetting a name. The third message is from a man, explaining the concept of interference.

"Retrieval is not always easy. What you experienced yesterday even has a name. *Tip-of-the-tongue phenomenon* is when you feel certain that you know the answer to something, but you cannot find the file in your mind. This is a common retrieval problem."

"You're not alone, Donnie. The other day I couldn't even remember Mrs. Johnson's name. I was so embarrassed!"

"That is definitely another retrieval problem. What happened to you, Janelle, was that old information interfered with new information, causing you to forget. If I had to guess, you probably wanted to call Mrs. Johnson, Miss Lee because that was her maiden name. It was a problem of *interference*."


"That is definitely another retrieval problem. What happened to you, Janelle, was that old information interfered with new information, causing you to forget. If I had to guess, you probably wanted to call Mrs. Johnson, Miss Lee because that was her maiden name. It was a problem of *interference*."


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Janelle

Retrieval

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 "That is definitely another retrieval problem. What happened to you, Janelle, was that old information interfered with new information, causing you to forget. If I had to guess, you probably wanted to call Mrs. Johnson, Miss Lee because that was her maiden name. It was a problem of *interference*."

 "Exactly!"

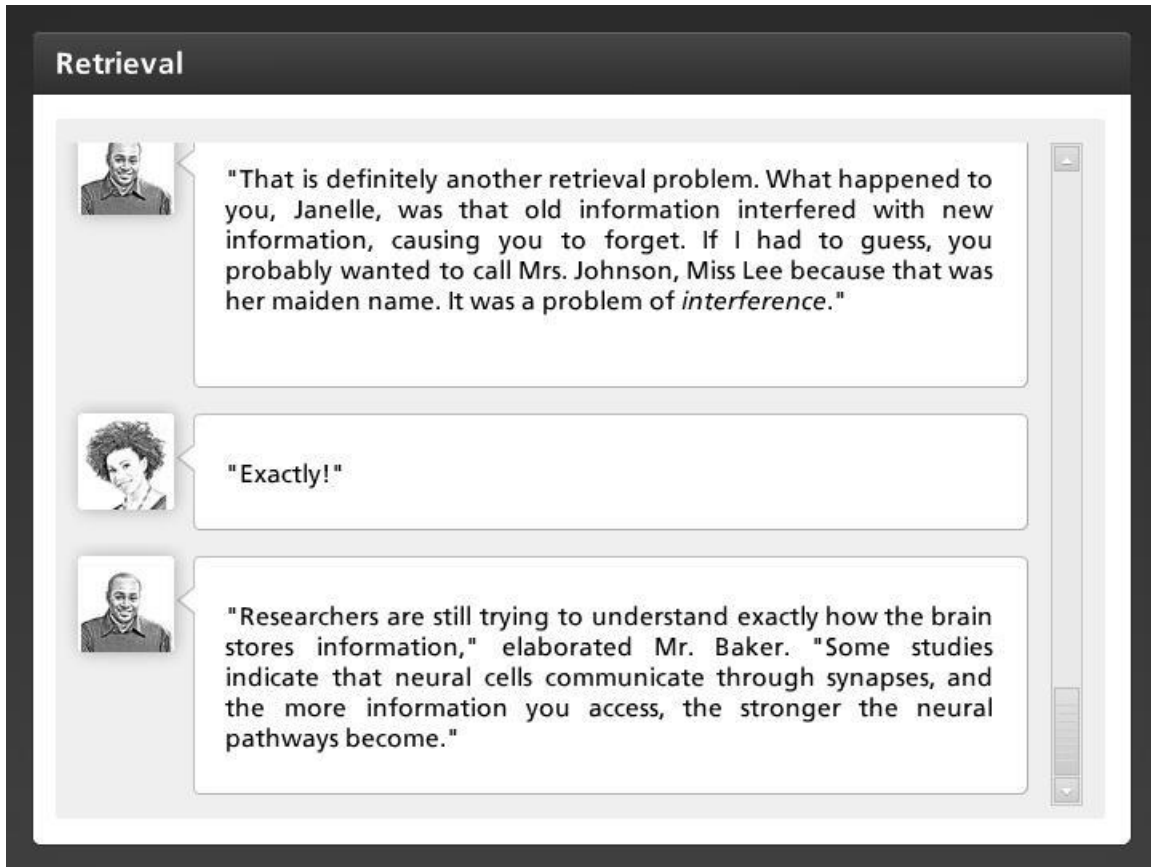
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Mr. Baker

Retrieval



"That is definitely another retrieval problem. What happened to you, Janelle, was that old information interfered with new information, causing you to forget. If I had to guess, you probably wanted to call Mrs. Johnson, Miss Lee because that was her maiden name. It was a problem of *interference*."

"Exactly!"

"Researchers are still trying to understand exactly how the brain stores information," elaborated Mr. Baker. "Some studies indicate that neural cells communicate through synapses, and the more information you access, the stronger the neural pathways become."

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