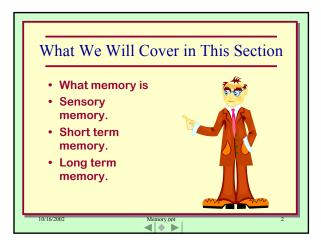
General Psychology Psy 100 Memory For Brenda and friends.

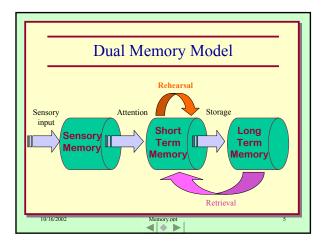


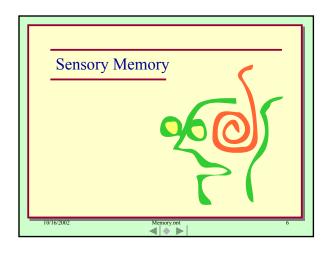
Memory: Definition Mental capacity to encode, store, and retrieve information. Indication that learning has persisted over time.

Memory Process

- Encoding
 - Forming the memory code.
- Storage
 - Maintaining stored information in memory over time.
- Retrieval
 - Recovering information from memory.

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Iconic (Visual) Memory

- Sensory memory that allows for the brief storage of visual images.
 - Capacity: Large
 - Affected by: brightness.
 - Lost by:
 - Decay
 - Backward Masking

The ability of a stimulus to wipe out the sensory memory of a preceding stimulus.

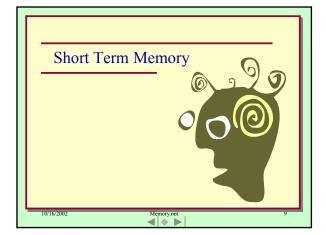
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Memory.ppt

Echoic (Auditory) Memory

- Sensory memory that allows auditory information to be stored for brief periods.
 - Capacity: Large
 - Loss by:
 - Decay.
 - · Backward masking.

10/16/2002



Purpose of STM

- Conscious Awareness.
- Integrate Information.
- Temporary Working Area.
- Hold Current Plans.

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Encoding in STM

- Selective attention
 - Have to pay attention
- How stored
 - Verbal codes.
 - Visual codes.
 - Auditory codes.

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Retention

- Maintenance Rehearsal
 - Rote repetition of the material to be recalled.
 - Capacity: 7 +/-2 pieces of information.
 - · Telephone numbers.
 - Zip codes.

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Incredibly Kool Demonstration

- I will divide the class into two groups: Group A and Group B.
- 2. I will ask Group B to hide their eyes.
- 3. I will show Group A series of letters, then ask them to recall the letters.
- 4. Then I will ask Group A to hide their eyes.
- 5. Then I will show a Group B a series of letters to Group B and ask them to recall the letters.

Demonstration

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Chunking

The process of taking single items of information and recoding them on the basis of similarity of some other organizing principle.

KDKAWYEPESPNNBCCBS

KDKA WYEP ESPN NBC CBS

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STM as Working Memory

• Phonological loop.

Process that holds and maintains speech-based information.

· Visual-spatial sketch pad.

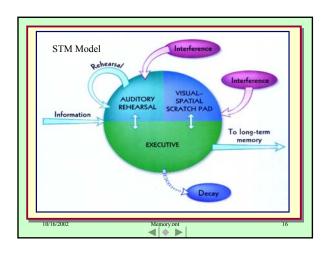
Process that holds and maintains visual and spatial information.

· Central executive.

Controls attention and coordinates information and mental processes.

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Retrieval: Accessing Information

- Serial strategy
 - When given a list of items it takes people longer to recall the earlier items.

Serial Position					
Fifth	Fourth	Third	Second	First	
Easiest to recall			Hardest to recall		
/2002		Memory.ppt	1		

Retrieval: Loss of Information

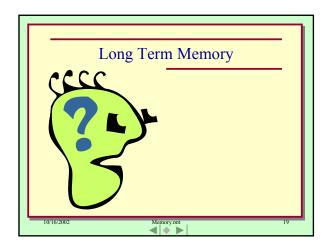
• Decay.

Degeneration of the memory trace over time. Limit is about 30 seconds.

• Displacement.

New information takes the place of old information.

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Encoding into LTM

- Encoding specificity.
 - We remember information based on the context where it was encoded and stored.
 - Retrieval of this information is enhanced if the cues that were present when we learned it are there when we try to recall it.

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LTM Storage: Rehearsal

Maintenance Rehearsal

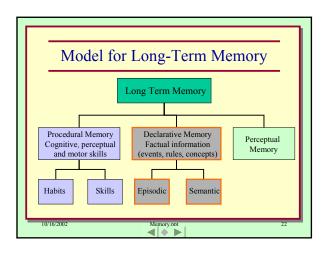
Rote repetition of the material to be remembered.

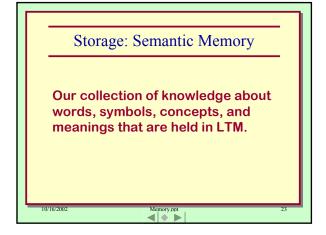
Elaborative Rehearsal

Reviewing material by expanding on its meaning, relating it to other things you are familiar with.

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Γ	Storage: Hierarchies					
	FISH					
	Salt Water		Fresh Water			
	You eat	Eat you	Trout			
	Snapper Tuna Tilapia	Shark Barracuda	Bass Perch Walleye			
10/16/2002 Memory.pot 24						

Schema

- A cluster of interrelated concepts that organize and encode general knowledge of people, objects, events, and procedures.
 - Information is stored based on meaning to us as individuals.

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Storage: Episodic Memory

- Storage of events including the time and place where they occurred.
 - Where you had lunch yesterday.

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Storage: Perceptual Memory

- The storage of sensory information
 - Involves what we see, hear, smell, feel, and taste.
 - Can be confused by things that are too similar.
 - Encoding verbally and perceptually strengthens the memory trace.

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Retrieval from LTM Recognition - Process of identifying a piece of information as being familiar. Recall - The process of retrieving stored information from memory without having the information present.

- Tip-of-the-Tongue
 - Knowing we know something but not being able to retrieve it.

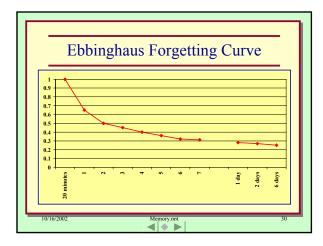
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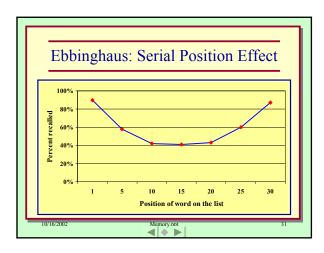
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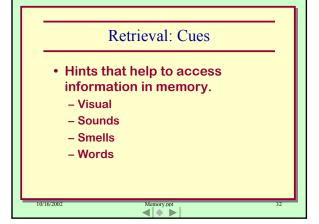
Ebbinghaus

- Psychologist who studied memory and recall.
- Used himself as a subject.
- Memorized lists of nonsense syllables: HEJ, TUQ, POZ, JAQ, MAB.
- · Then recalled the lists.

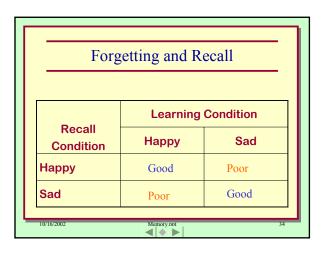
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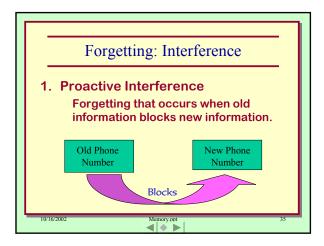


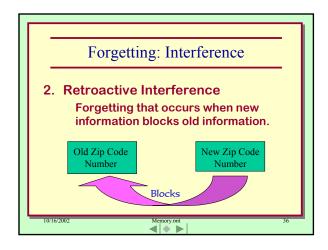




• The process of assembling information based on general types of stored knowledge in the absence of a specific memory representation.







Other Issues

- Emotionally charged situations
- Flash-bulb memories
- Amnesia
 - Retrograde
 - Anterograde
- Repression

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