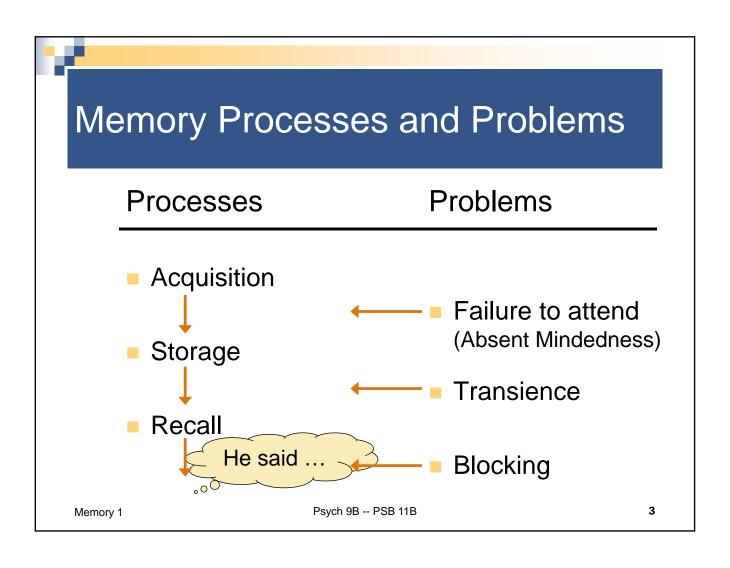
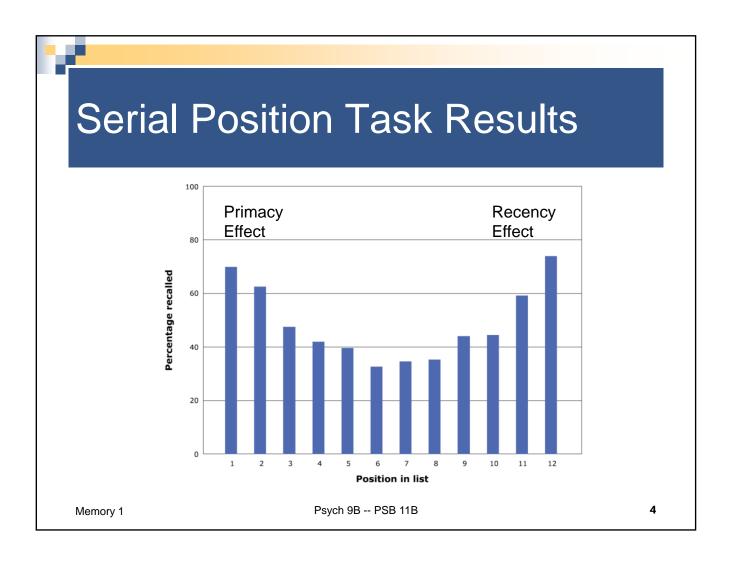




Chapter Test 1

- Results posted on EEE
- Mean raw score was 67.9
 - ☐ Mean score after the curve was 78.6
- Make-up exams today and Monday
- Monday morning, I will post feedback including an answer key and question descriptions
- ScanTron forms will be available in your Discussion Sections







- Looking at serial position effects in free recall, the items reflected in the *primacy* effect are stored primarily in _____ memory, while those reflected in the *recency* effect are stored primarily in _____ memory.
- A. working / recognition
- B. working / long-term
- c. long-term / working
- D. long-term / recognition

Meamoing 11 Psych 9B -- PSB 11B 5

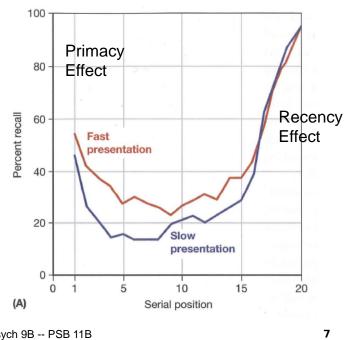


- Increasing the presentation rate (less time per item) should have what effect?
- A. Increase the primacy effect
- B. Decrease the primacy effect
- c. Increase the recency effect
- D. Decrease the recency effect
- E. Have no effect

Mæmreing 11 Psych 9B -- PSB 11B 6

So What's Wrong with this Figure?

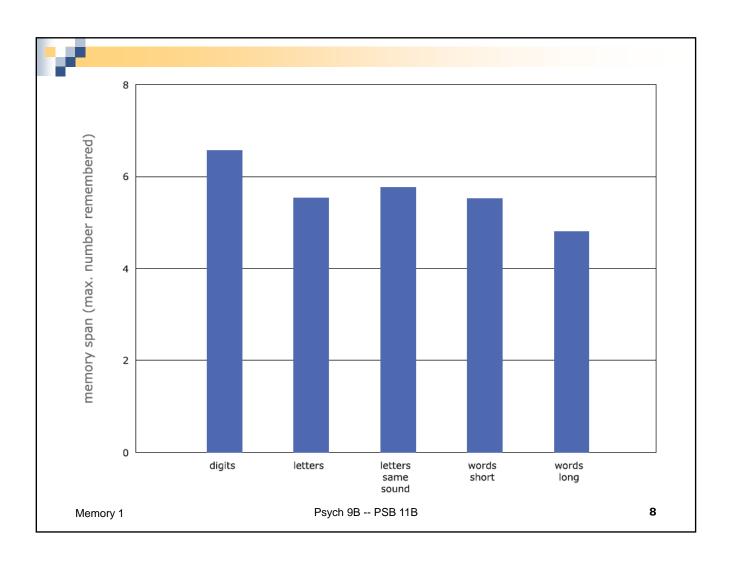
- Figure 8.4a Text page 305
- The labels showing presentation speed are reversed!

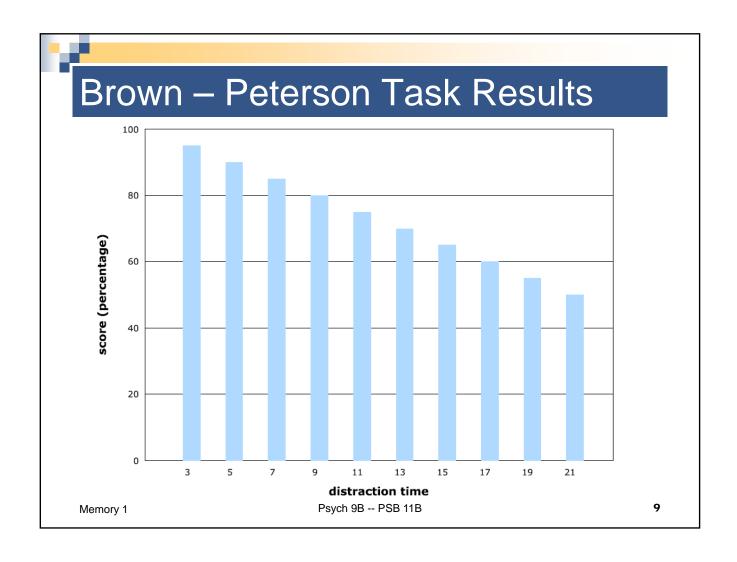


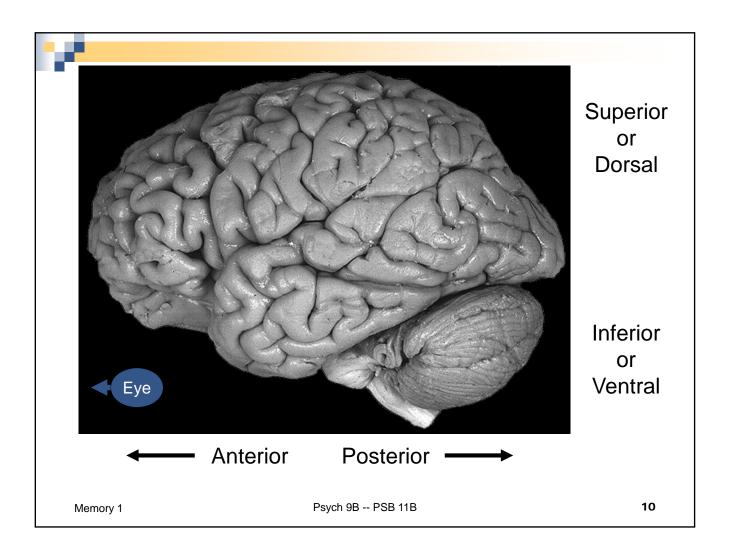
Memory 1

Psych 9B -- PSB 11B

7







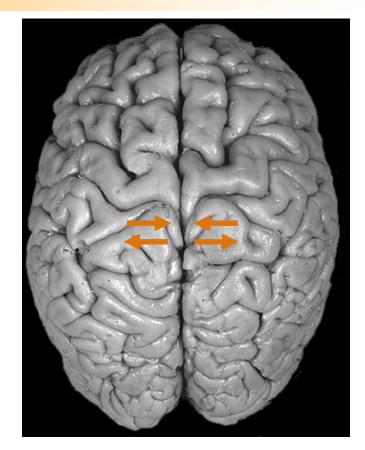


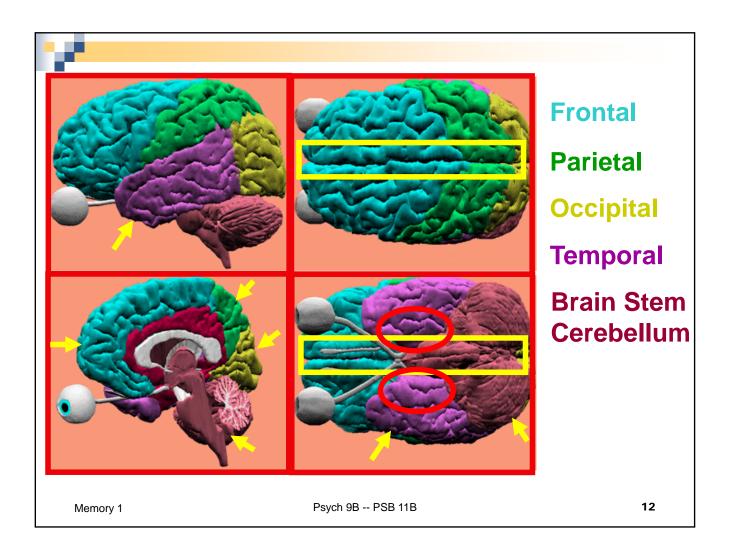
Medial:

Toward the middle

Lateral:

Toward the side







- A friend has just had a stroke. You observe that, although he can hold a conversation and can recall events you shared in the past, when you leave and return the next day, he does not remember your previous visit. Most likely the damage from the stroke was primarily in which area of the brain?
- A. Frontal lobe
- B. Parietal lobe
- C. Occipital lobe
- D. Temporal lobe
- E. Brain stem

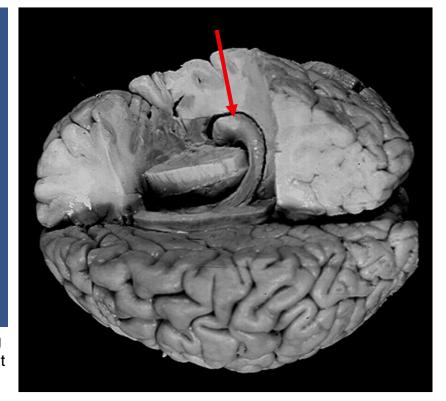
Meanning11 Psych 9B -- PSB 11B **13**



Uncovering the Role of the Hippocampus: HM

Similar case: Clive Wearing http://www.youtube.com/wat ch?v=Vwigmktix2Y

Memory 1



Psych 9B -- PSB 11B

14



- Summary of HM's memory status
 - □ His long-term memory storage and retrieval were unharmed
 - ☐ His working memory was unaffected
 - ☐ His deficit involves converting information in working memory into permanent storage
- Inferences about memory systems
 - □ Short-term memories are biologically different from long-term memories
 - □ Long-term memories are stored throughout the brain, or at least not in the hippocampus
 - ☐ The hippocampus is critical for information to reach long-term storage
 - Once a memory is permanent the hippocampus is no longer required to reinstate it This turns out to be wrong!



Role of the Hippocampus

- Hippocampus functions to bind and connect representations stored in other cortical locations
- Gary Lynch at UCI
 - http://www.latimes.com/nation/la-na-memoryfirst19aug19-htmlstory.html
 - ☐ His lab developed a procedure to visualize LTP the strengthening of synaptic connections in hippocampal slices (of rats)
- Results
 - □ Strengthening is initiated by a specific pattern of neural stimulation
 - □ Can be disrupted by subsequent stimulation in a 15-20 minute period
 - Once stabilized, increased activity at this site calls back the pattern encoded in other parts of cortex







Summary: Hippocampus, LTM and WM

- Long-term and working memory use different brain mechanisms
- The different parts of the hippocampus are important for
 - □ Long-term memory formation
 - □ Retrieving long-term memories
- The hippocampus is not
 - □ The location of the activity that constitutes a long-term memory
 - Involved in working memory (but other nearby areas are)

Memory 1

Psych 9B -- PSB 11B

17

