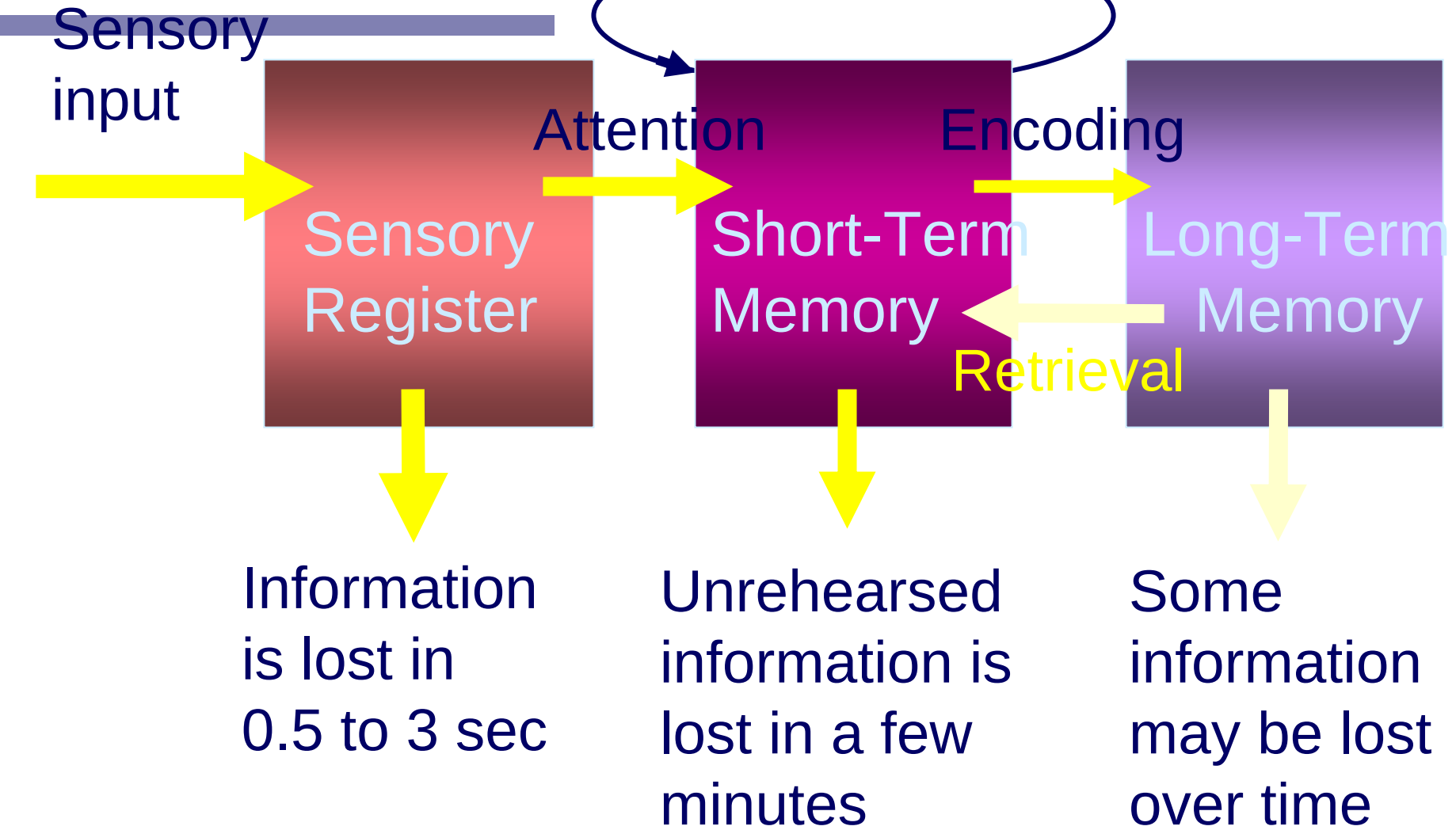


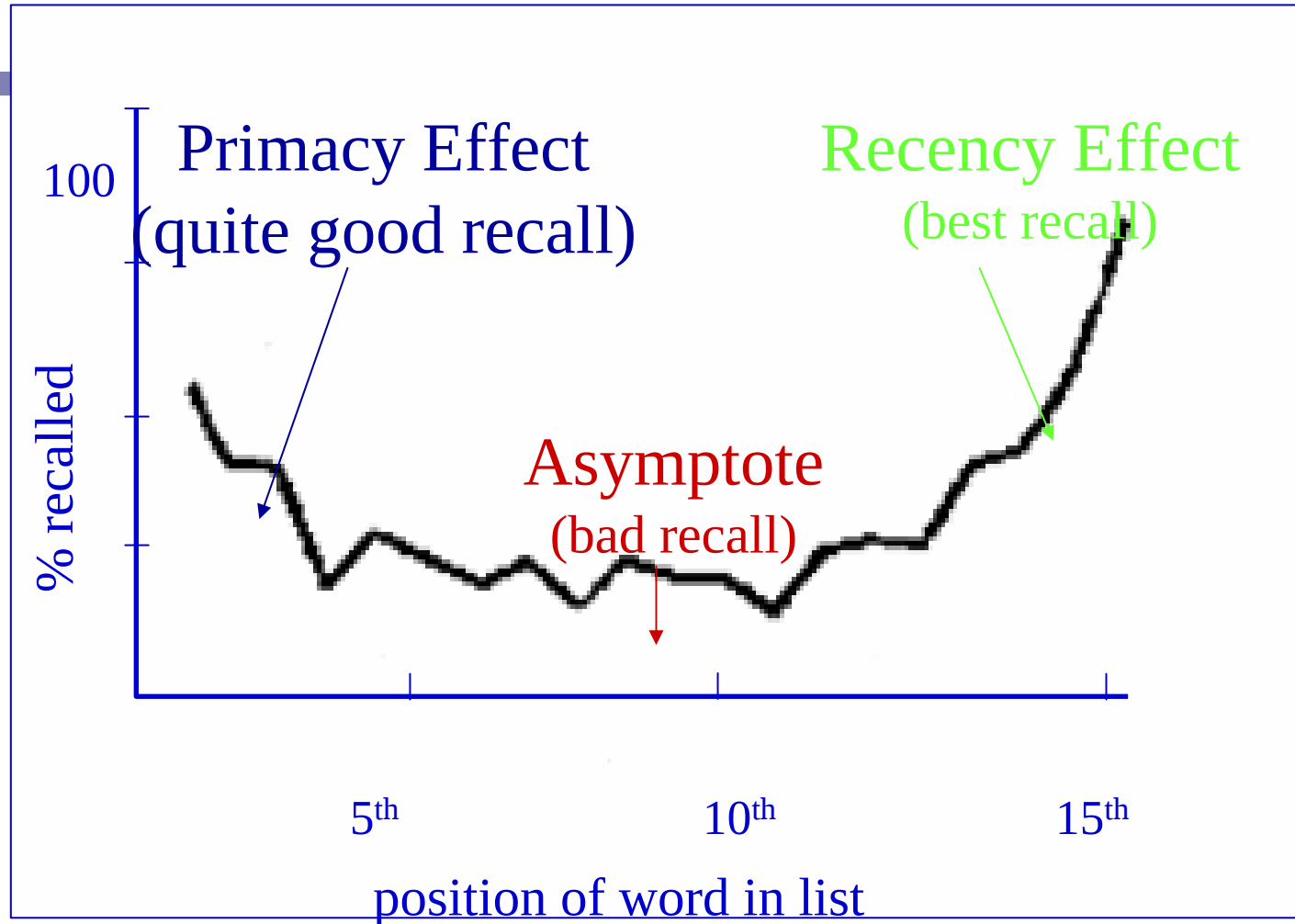
CHAPTER 8

■ MEMORY & FORGETTING

Professor Fazakas-DeHoog

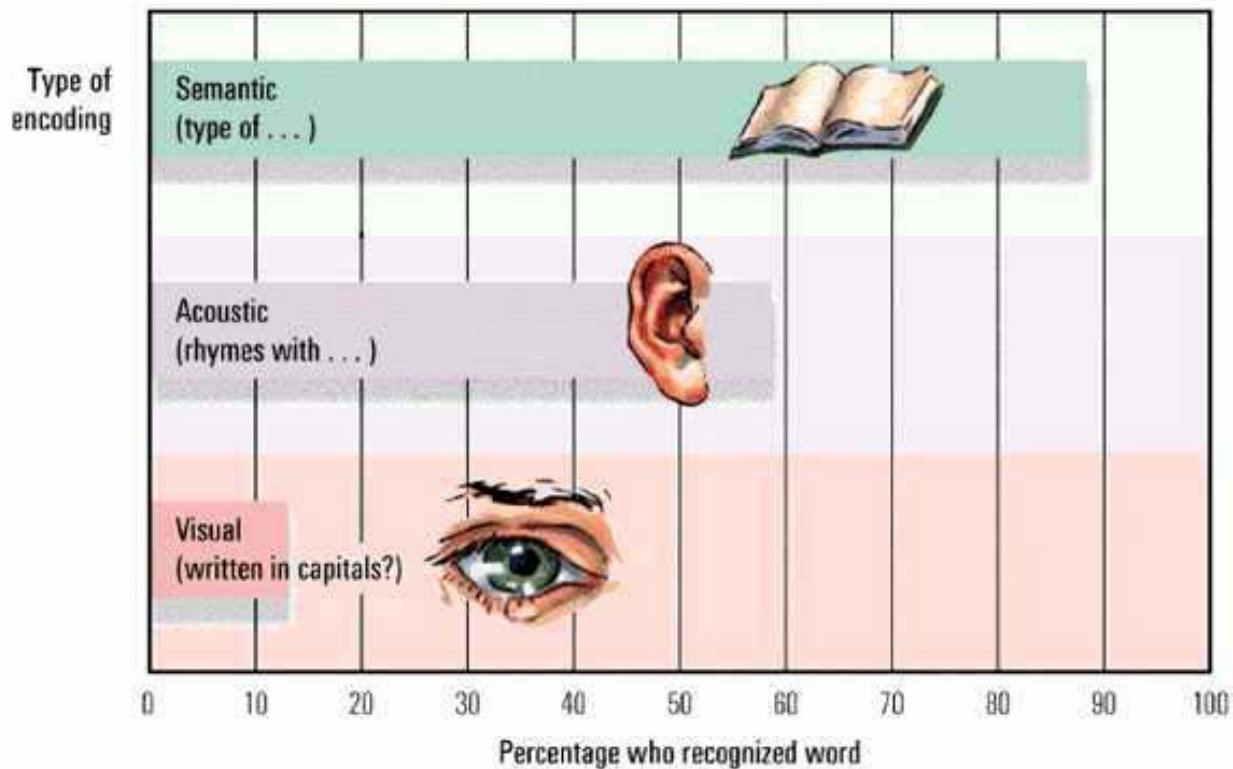
lfazaka@uwo.ca



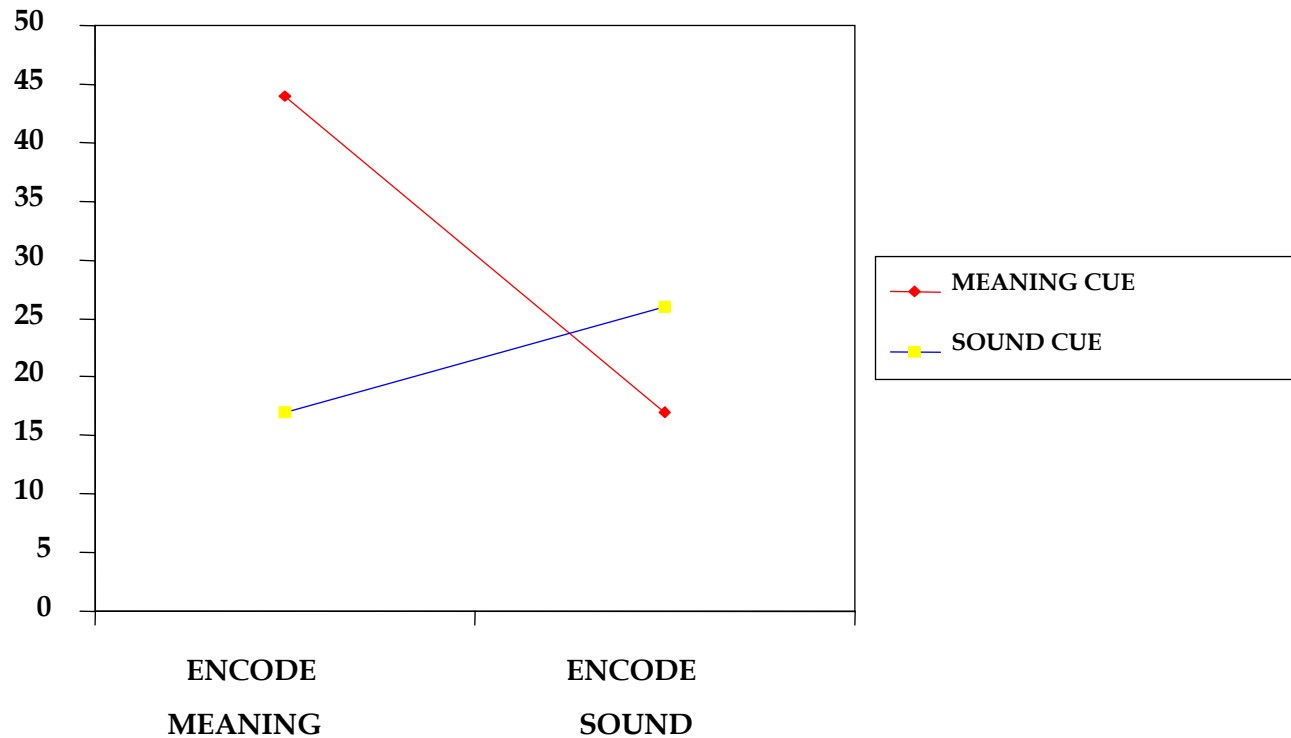


Serial Position Curve

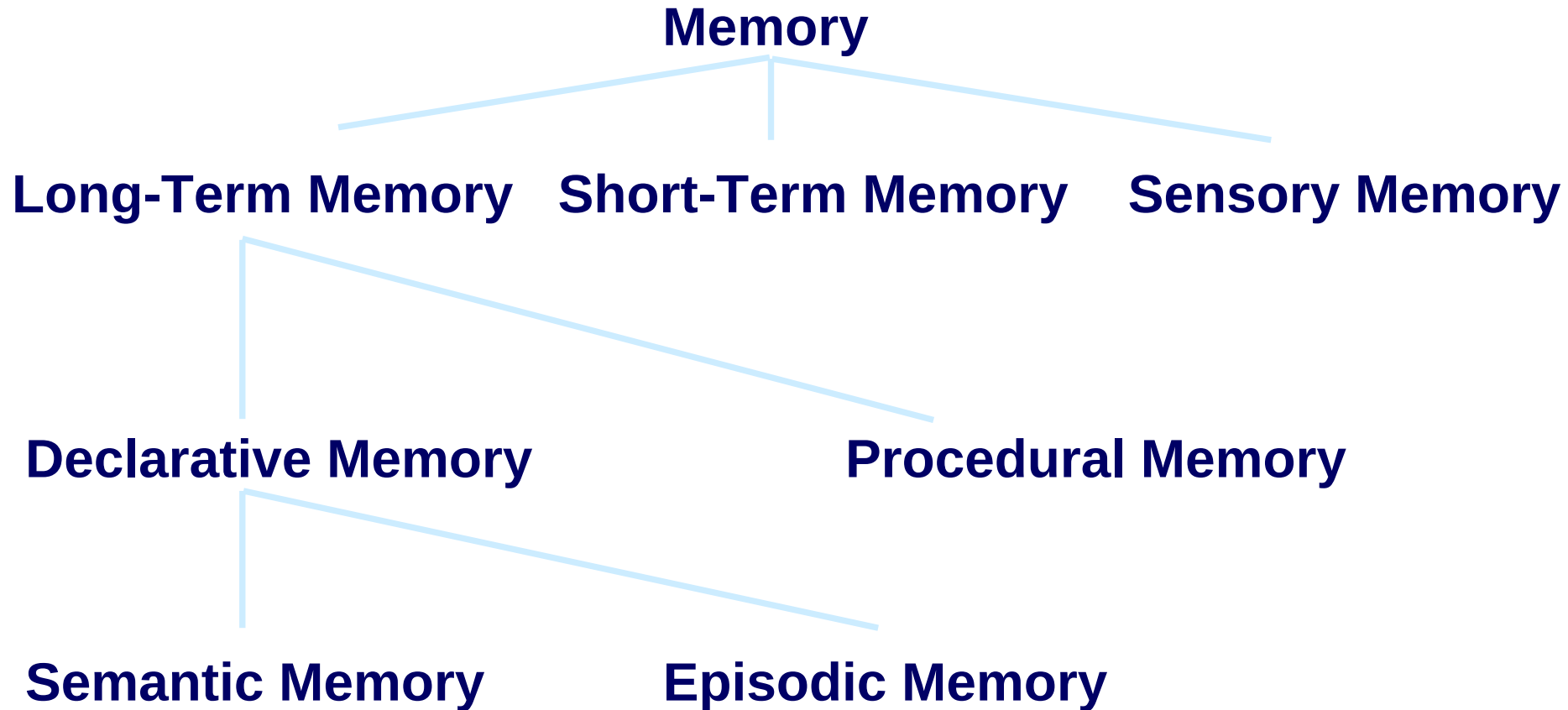
Encoding



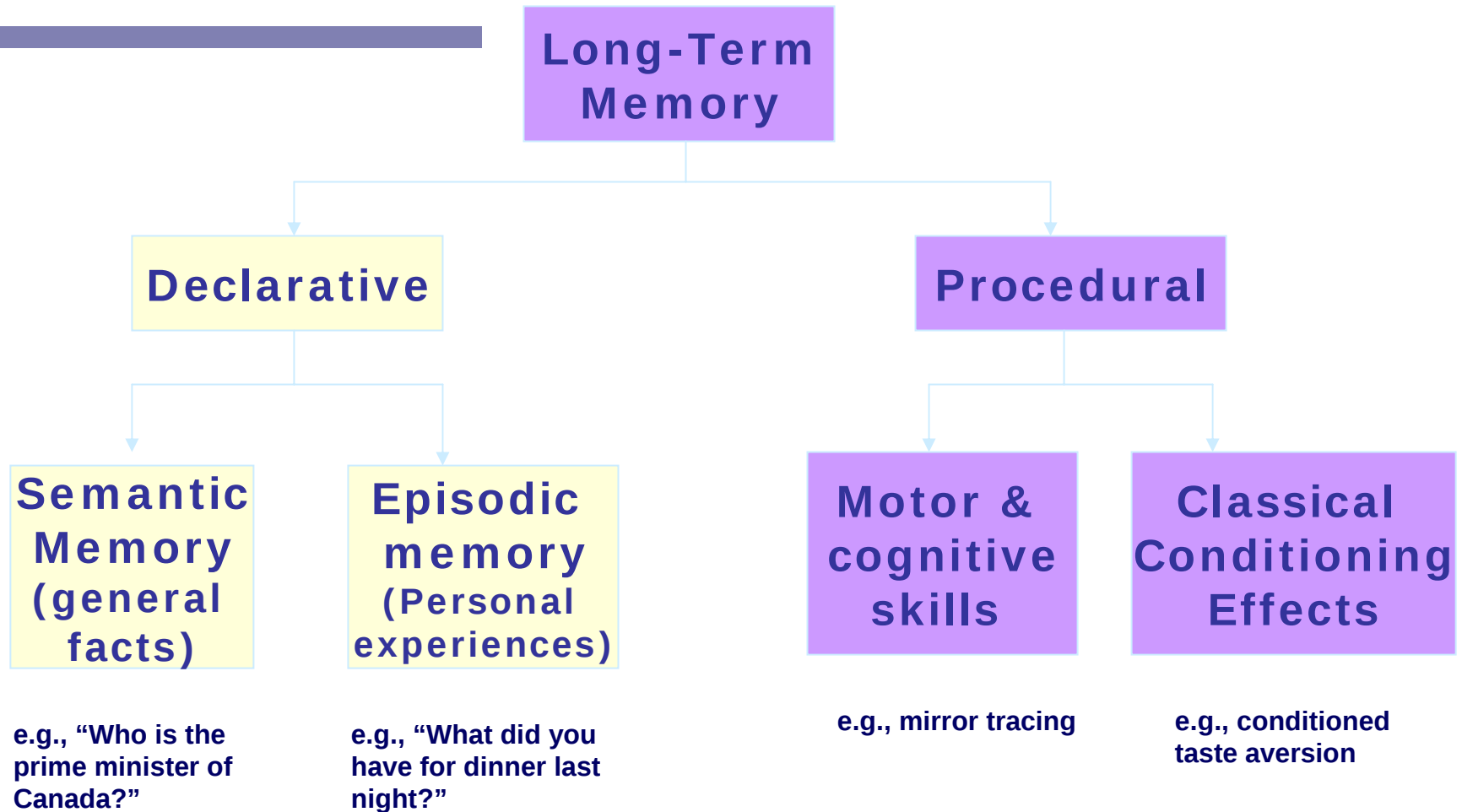
Encoding Specificity



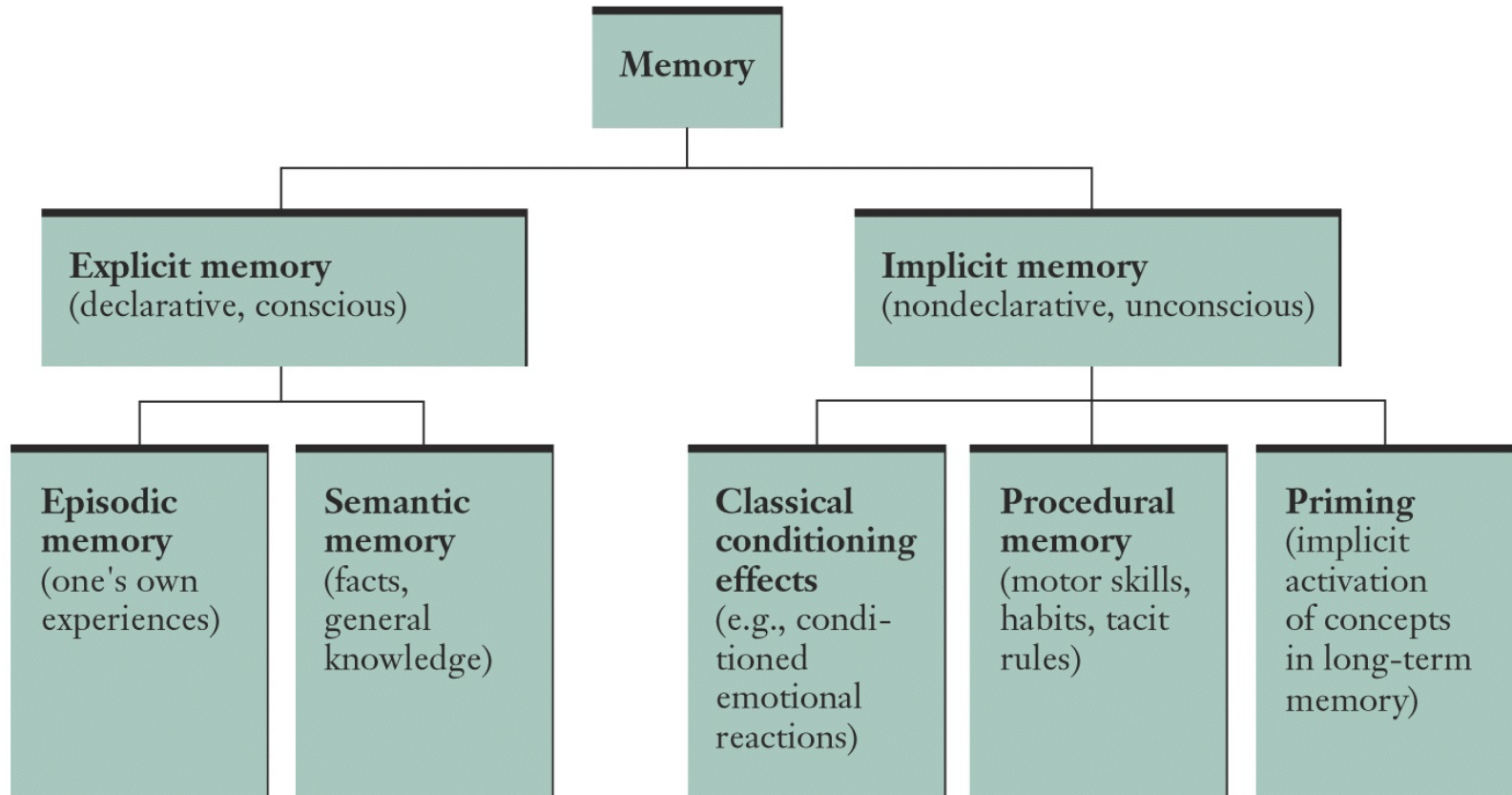
Long-Term Memory

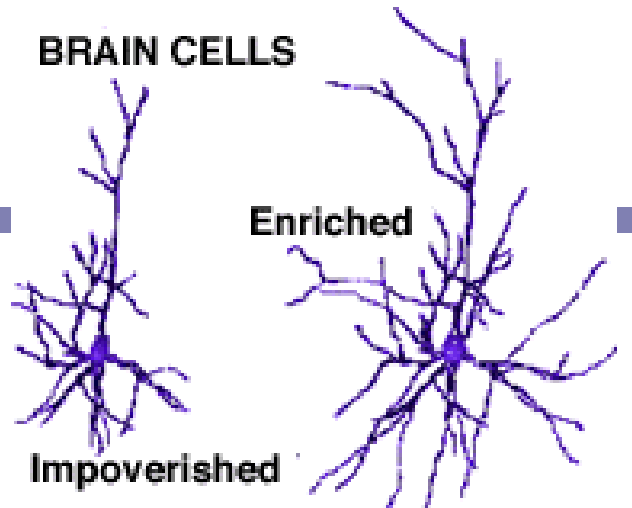


Subtypes of Long-term Memory



IMPLICIT vs. EXPLICIT MEMORY





Long term memory

- > synaptic connections

“Neurons that fire together wire together.”

(A) Before experience

Single synapse on dendritic spine

Axon 1

Axon 2

Axon 3

(B) After experience

New axon

Axon 1

New axon

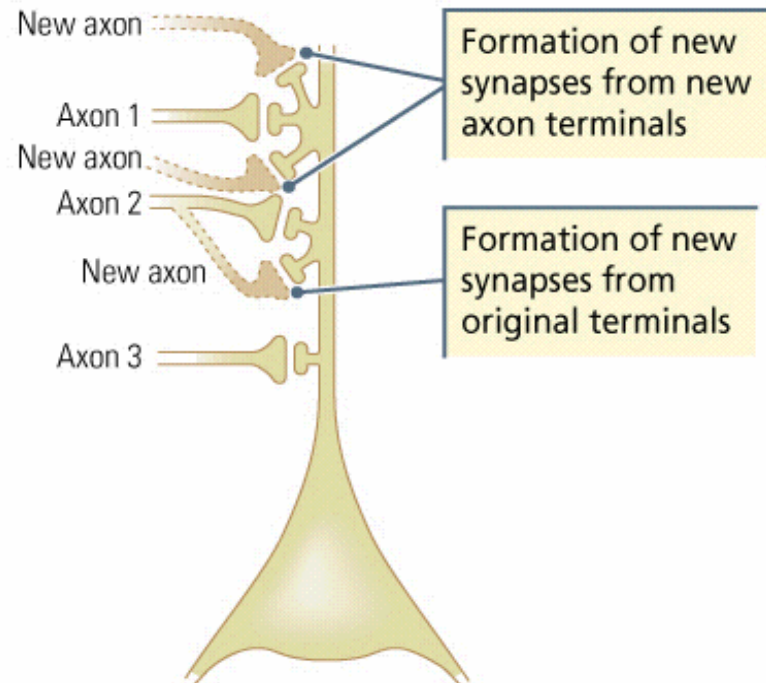
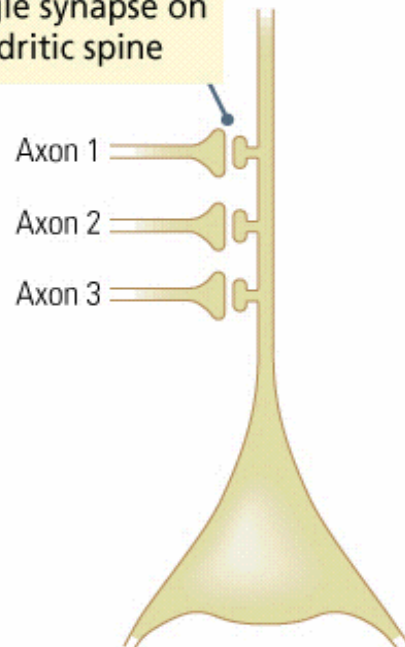
Axon 2

New axon

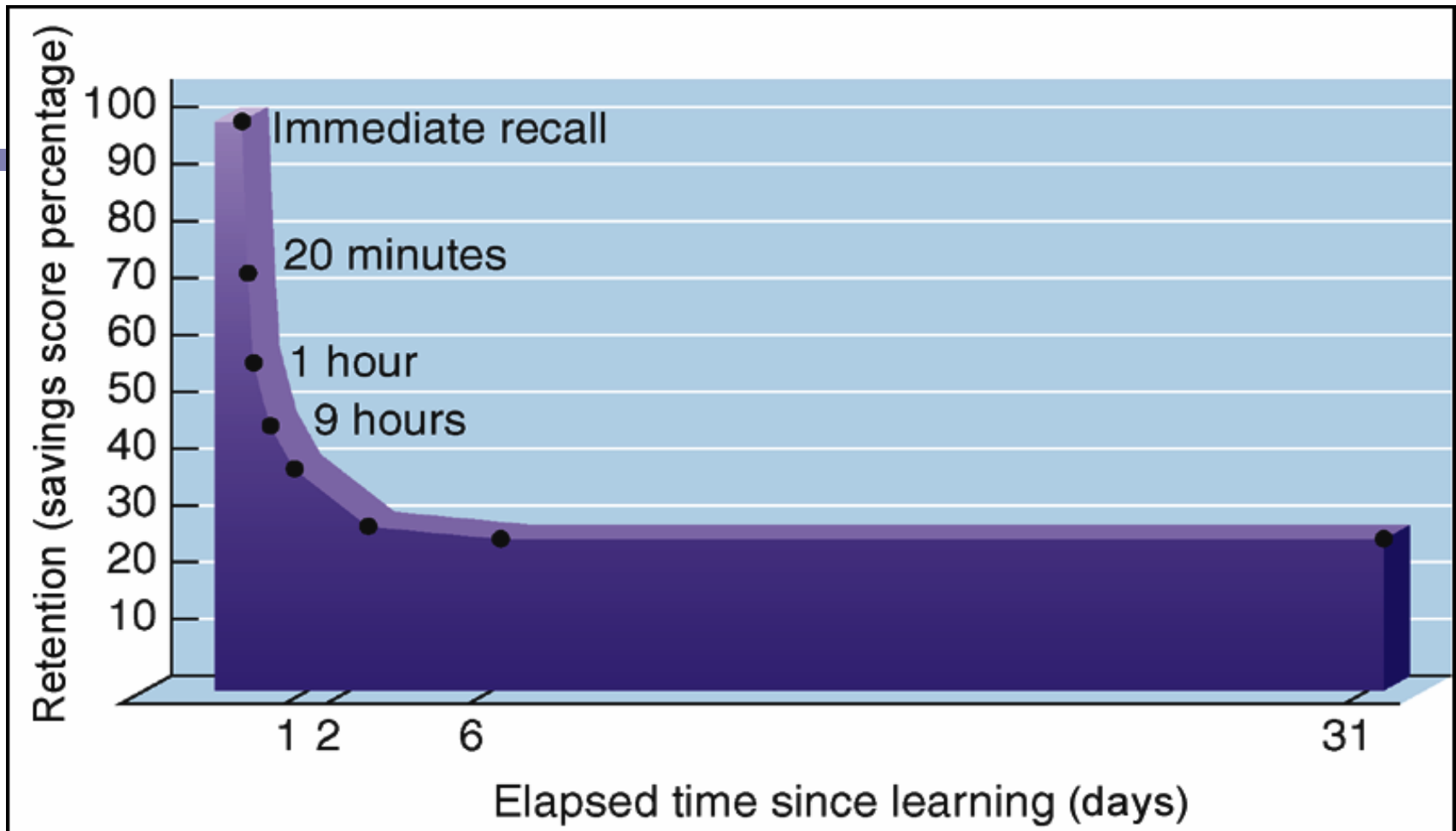
Axon 3

Formation of new synapses from new axon terminals

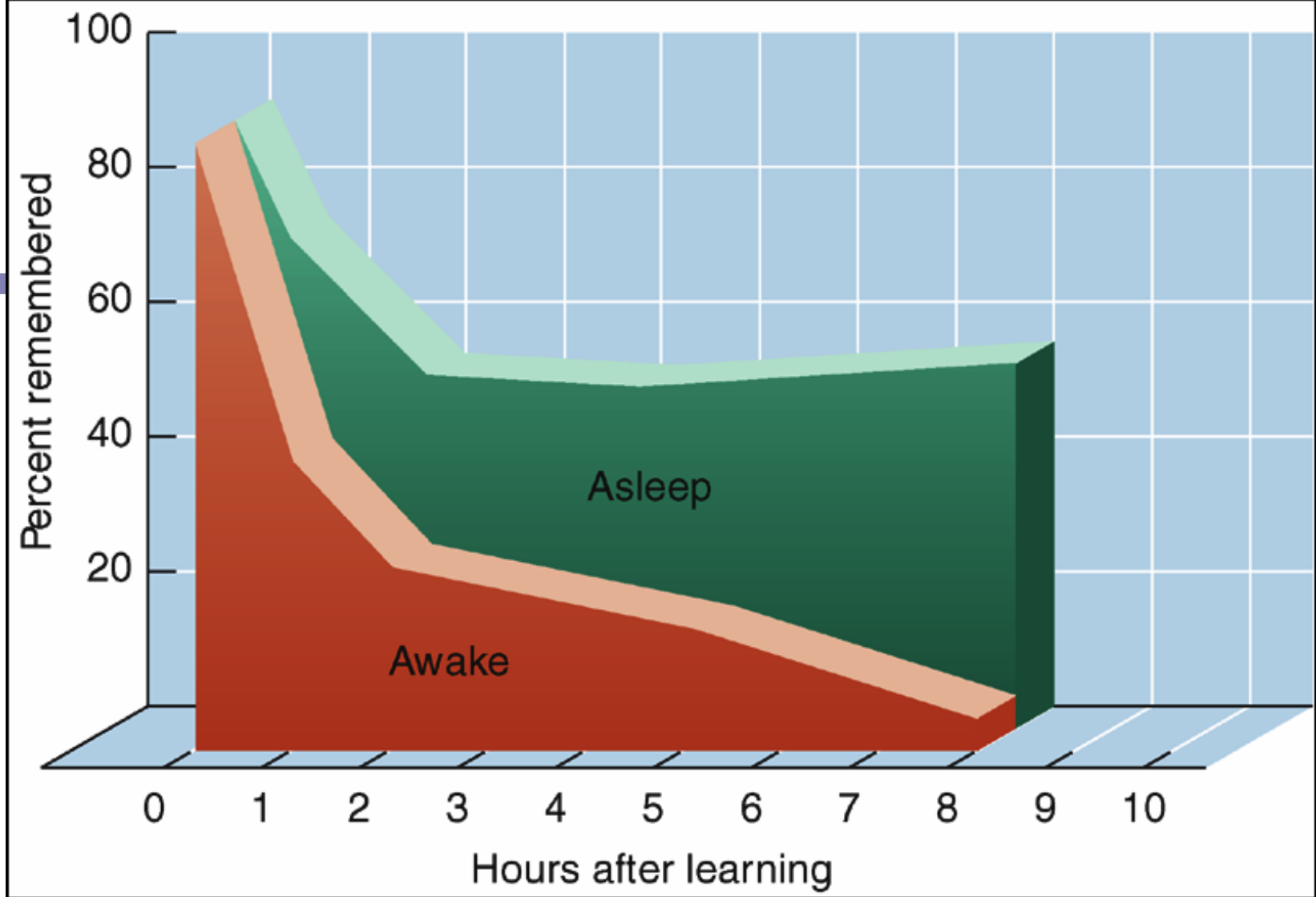
Formation of new synapses from original terminals



Forgetting Learned information

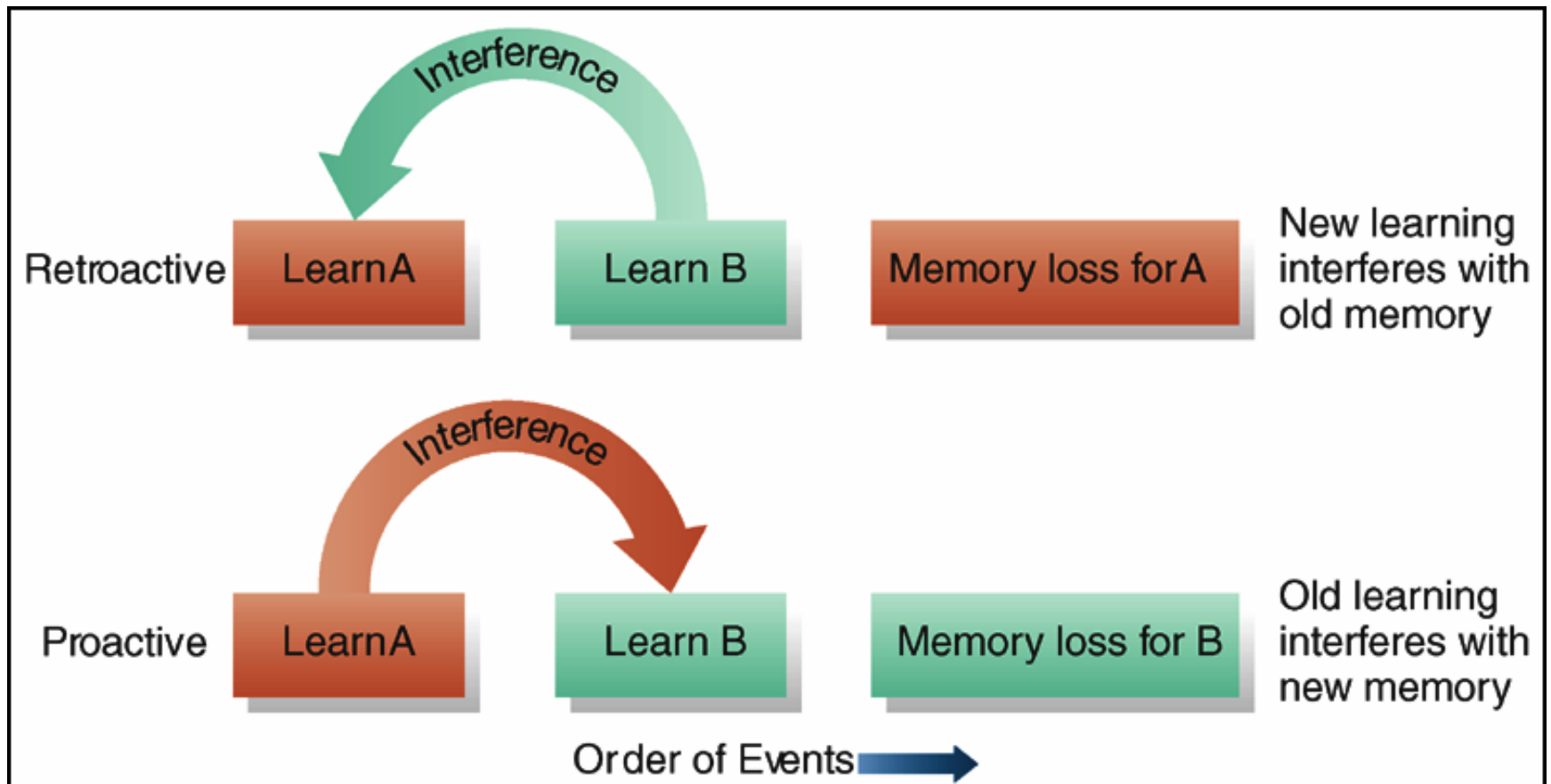


Forgetting Curve: List of nonsense syllables.

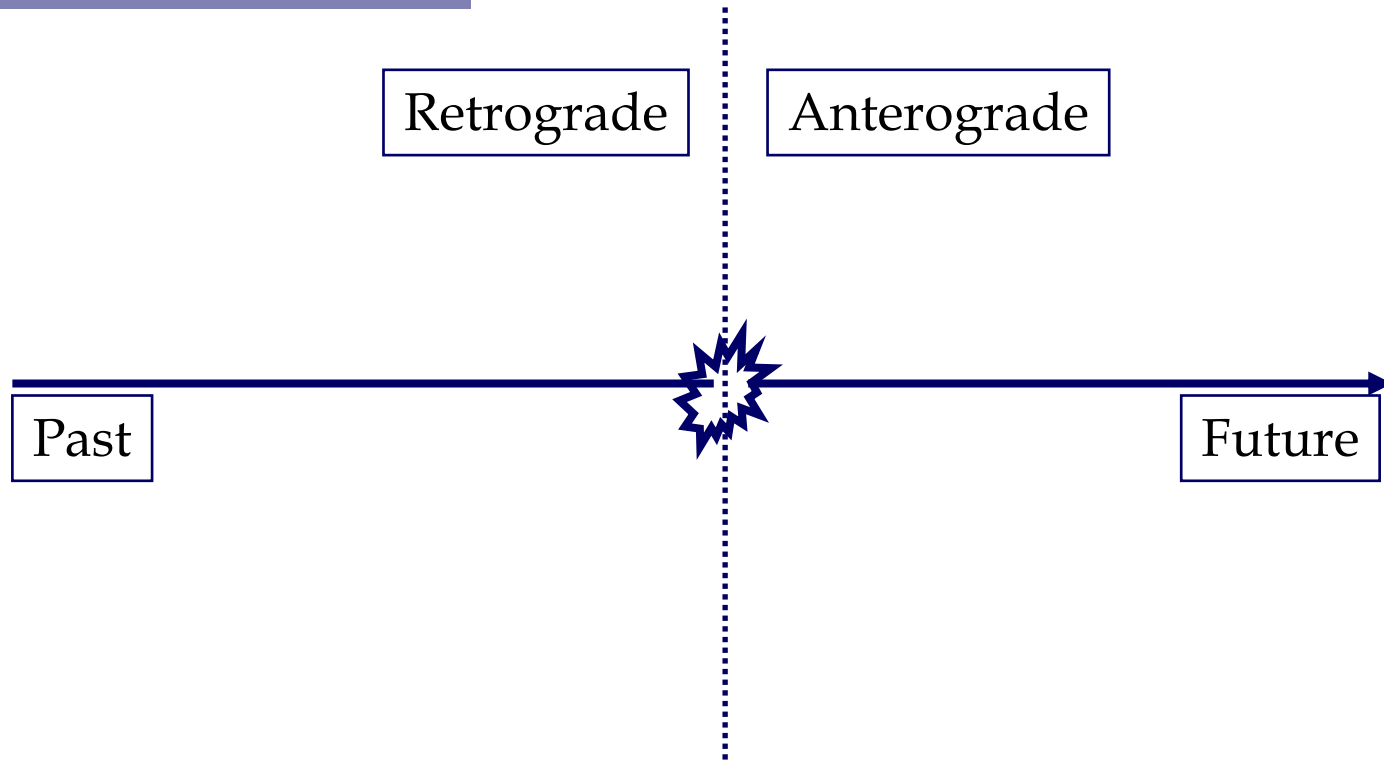


Retaining information:
Study ? Or sleep?

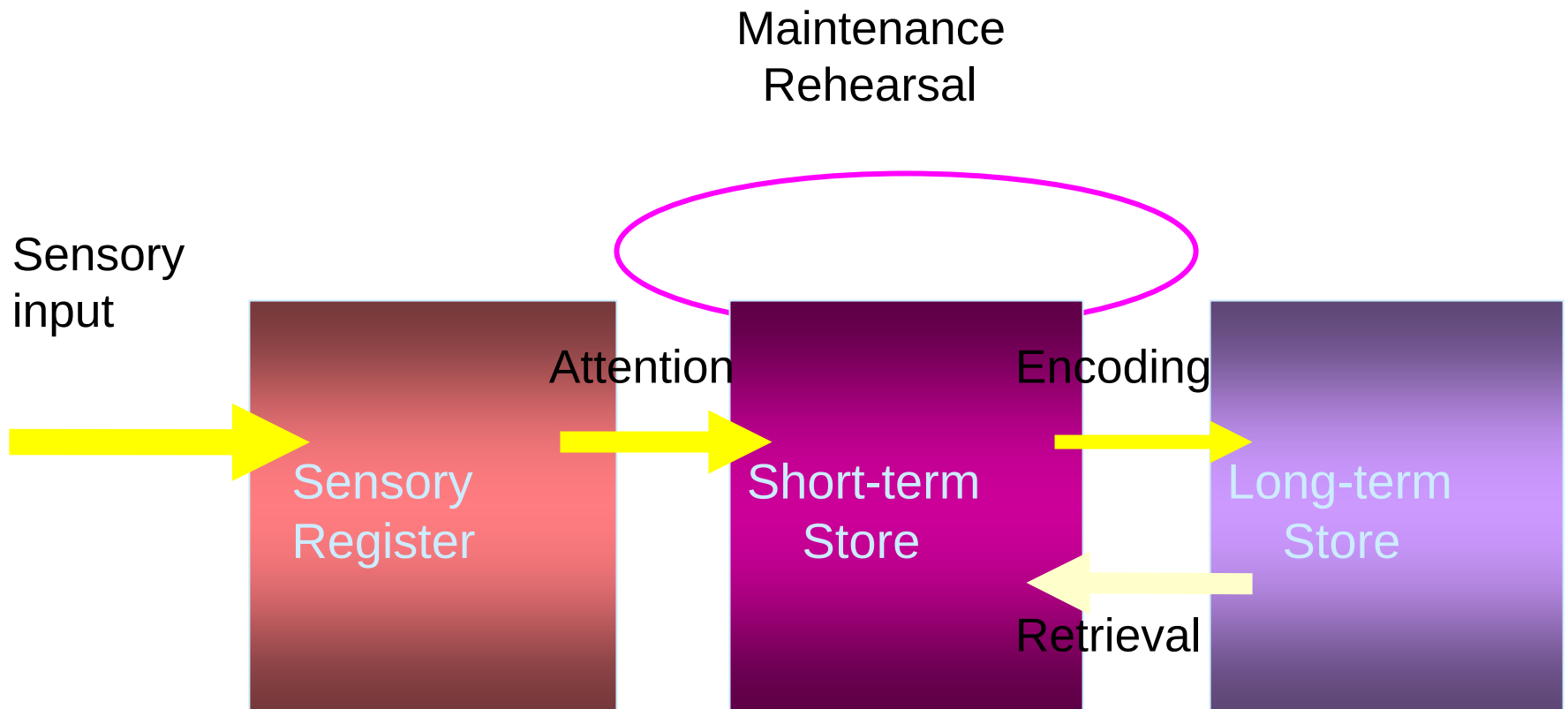
Forgetting & Interference



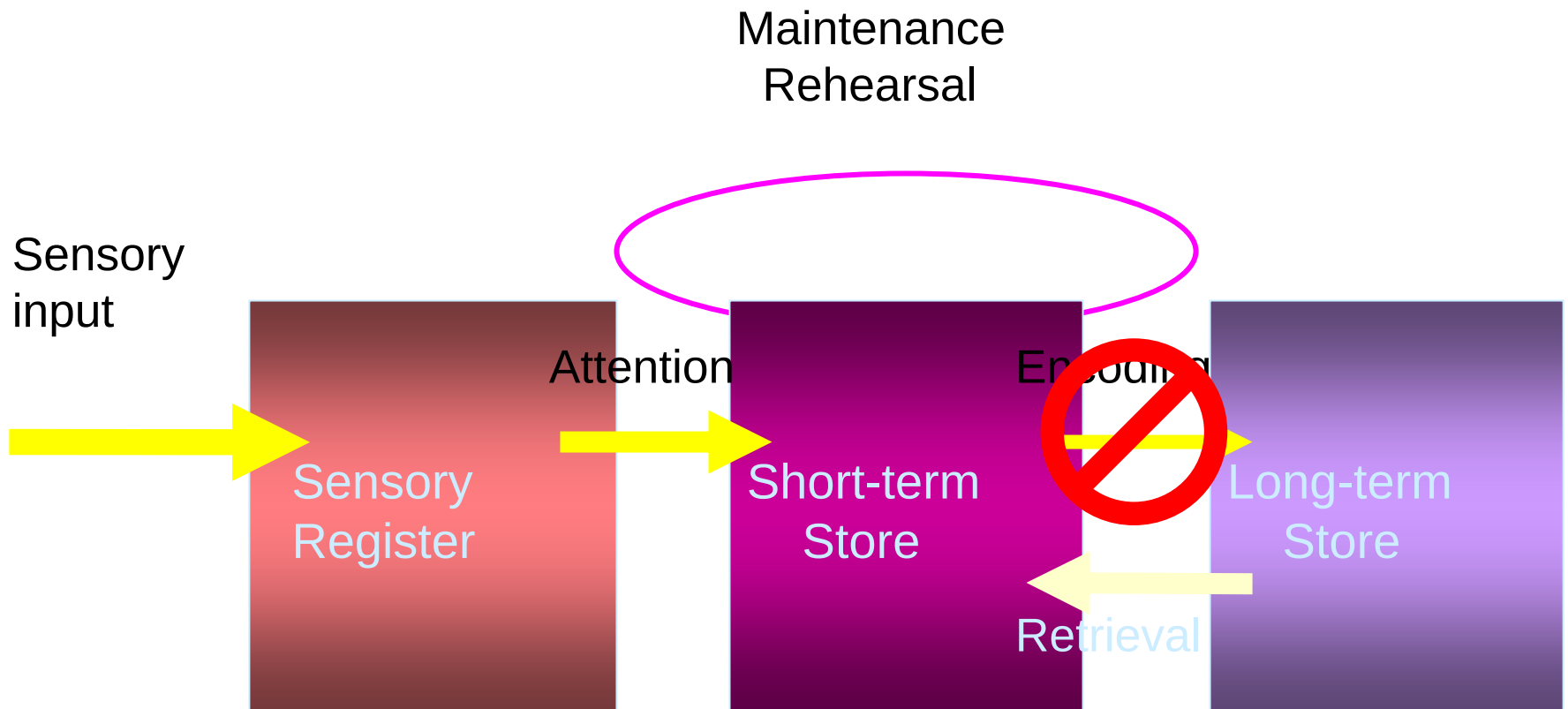
Amnesia



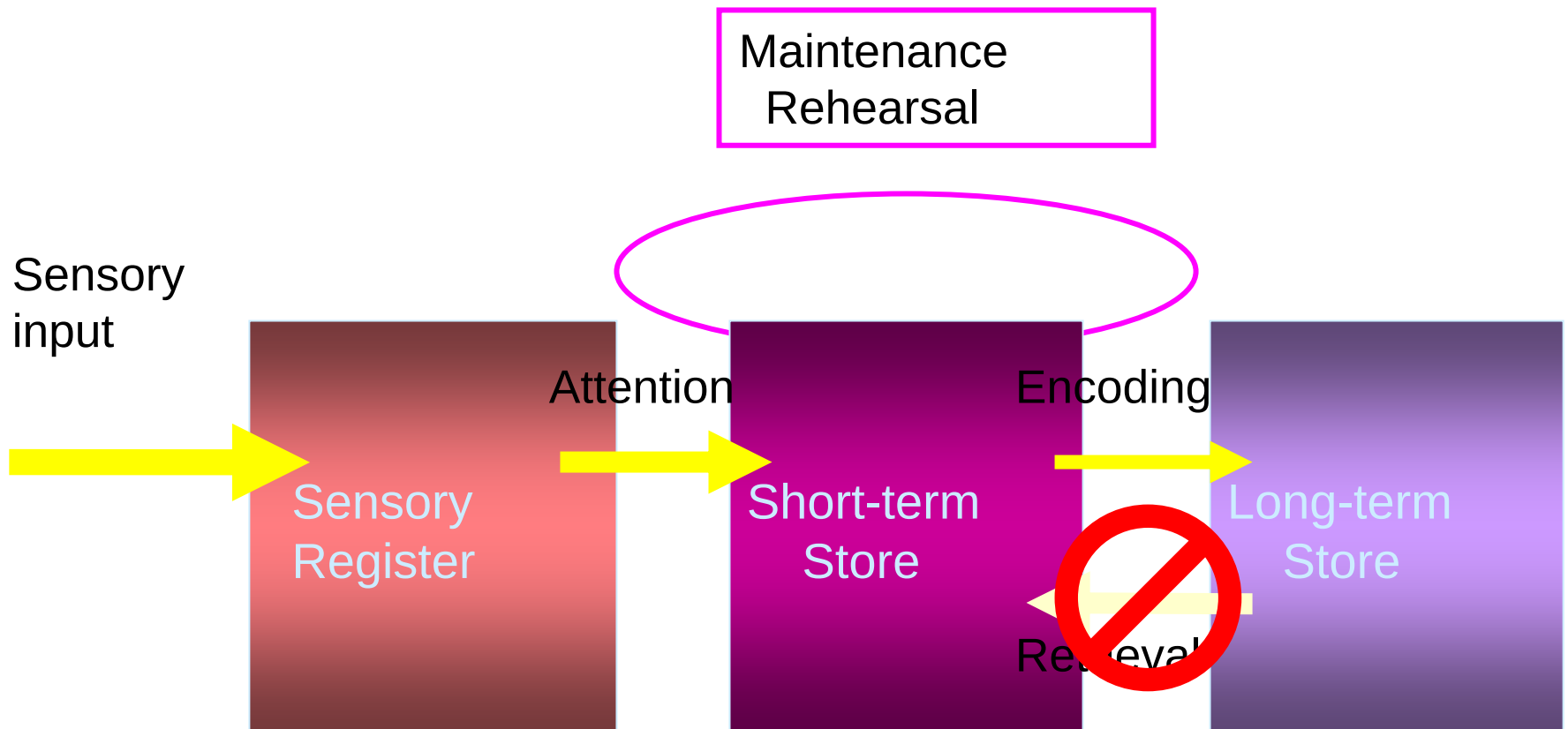
Memory Impairments



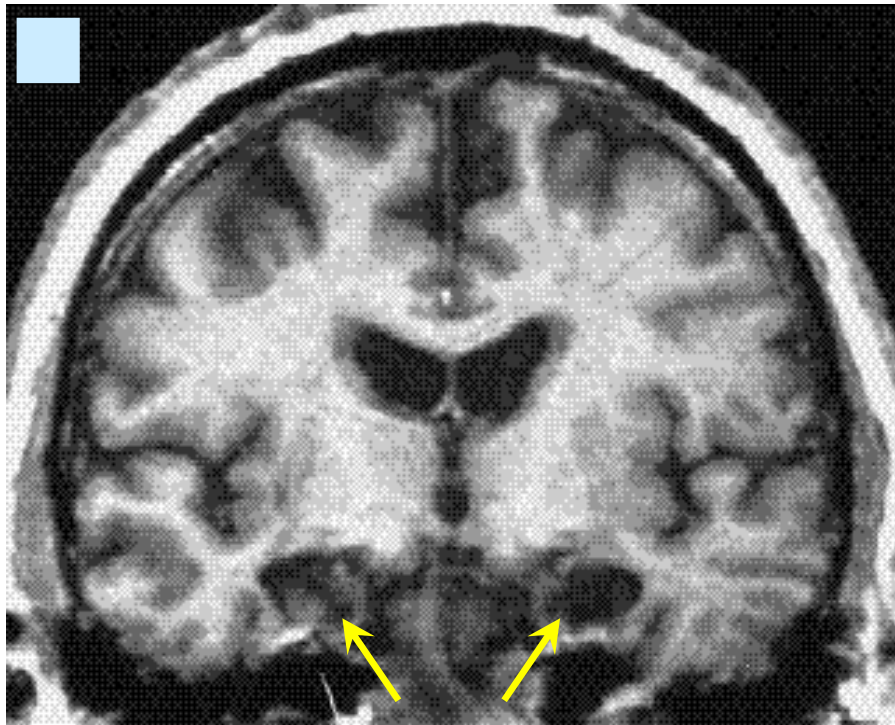
Anterograde Amnesia



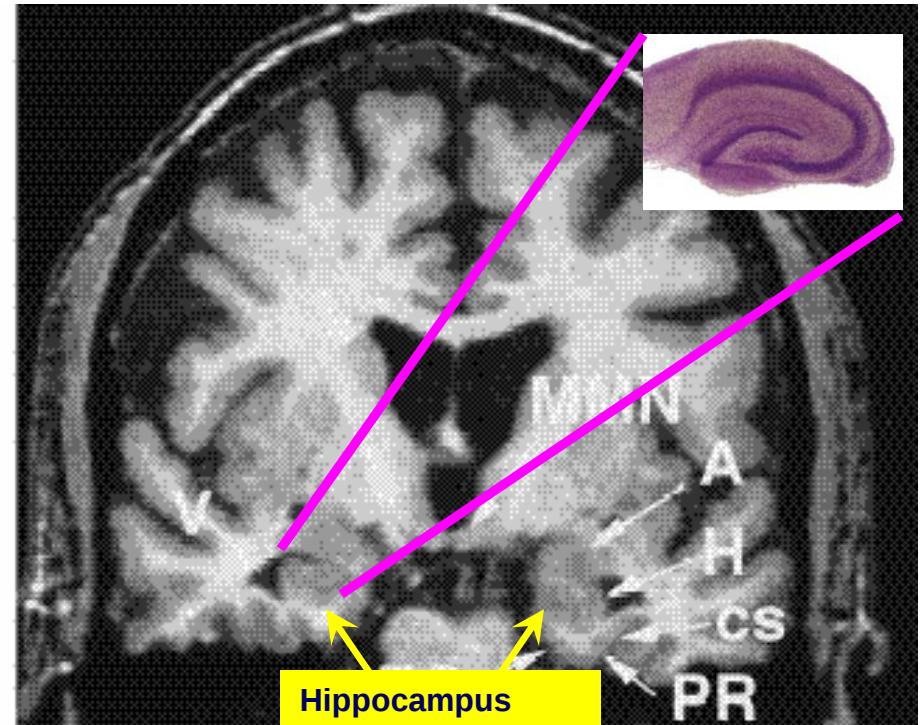
Retrograde Amnesia



Patient H.M.: Damage



H.M.



Normal Subject

H.M.'s Long-term Memory

