

9/23: Handedness Continued

| | Encoding | Retrieval |
|---------------------|--------------|--------------|
| Semantic (factual): | L hemisphere | L Hemisphere |
| Episodic (events): | L hemisphere | R hemisphere |
| - Tulving (HERA) | | |

*Childhood amnesia: no episodic memory from the first 4-5 years of age. Myelination of corpus callosum starts 4-5 years of age.

Explicit Recall: as many words as you can remember

Implicit Fragment Completion: (semantic memory) no difference between mixed/strong handers

Confound: when groups differ in more than one way

- Left handers more motivated to participate in a study about left handers because there are not as many left handers.
- Differences arise when the hemispheres need to interact
- Real world memories (journals recall information) handedness difference in recall but not as large of an effect.
- False memories/high false alarm/induce false memories/failure of source memory.
- Memory studies
 - F have earlier memories (earlier development in verbal domain)
 - Mixed handers have earliest memories (5-6)
 - o Gender/handedness: additive effect but independent
 - o 2-3% remember 2-3 years
- Intentional vs incidental learning
 - levels of processing: deep/shallow
 - conscious effort to remember
 1. Structural (upper/lower)
 2. Phonemic (rhyme) | Incidental
 3. Semantic (fit sentence frame) |
 4. Intentional (told to memorize) --- Intentional
- Recognition memory
 - Remember: Consciously recollecting previous episode.
 - knowing: Familiarity based, no explicit recollection
 - no difference in handedness
- Language/ vocab learning
 - Inconsistent better at remembering new vocab
- Belief updating/ persuasion in mixed handers:
 - gullibility (personality traits): mixed handers agree more often
 - counter factuals
 - o Upwards: if only...

o Downward: as least...

- mixed handers produce more counterfactuals
- cognitive dissonance: mixed handers more affected, strong handers more prone to be sexist
- childrens belief's about species origin
 1. spontaneous generation (early in development)
 2. creationism (middle-adolesence)
 3. Evolution (adolescence-onward)
- open eardness: open to many different music genres.