Lecture 8 Memory
$\rightarrow$ In-class remember words experiment

- First $\ddagger$ last more likely remembered
- Implant memory because of semantic meaning.
* Neural network - similar concept activate related concepts

* Memory - ambiguous reconstruction of what happened using limited info $\rightarrow$ memory illusions
* Atkinson - Shiffin memory model

\#1 Encoding and LTM (ie. $S T M \rightarrow L T M$ )
- We don't know how much we can store
* Cues - things that help retrieve i.e. connection
- Environment
$\rightarrow$ Learn on land $\rightarrow$ retrieve better on land,
$\rightarrow$ Prof's zero gravity memory experiment
- Mnemonics
$\begin{array}{ll}\rightarrow \text { imagery } & \rightarrow \text { spacial cues } \\ \rightarrow \text { rhymes \& rhythms } & \rightarrow \text { preset list }\end{array}$
* Level of Processing - More cues, more connections $\leftrightarrow$ deeper processing
- words: structual, semantic, personal, generation, phonetic..
- desirable difficulty: force deeper processing!
$\rightarrow$ Reading waving text lead to better comprehension.
\#2 Retrieval $\ddagger$ LTM
* Retrieval changes memory!

Retrieve $\rightarrow$ process incomplete info $\rightarrow$ re-encode (stronger, but less accurate)

- Tests reinforce memory
- Harder the retrieval, stronger the retrieval pathway after neecencode.
* Interleaving effect
$\rightarrow$ Make pp learn iderutuy painter

1. show mixed $\leftarrow$ ppl learn better
2. show separately

- So alternate between subjects when studying!
\#3 Forgetting
* Forgetting Curve * Why Forget?

- Decay theory - something washes it away?
- Interference theory (probably due to lost cue)
- Retroactive: new memory replaces old
- Proactive: of d ... new
* Retrieval Induced Forgetting

$\rightarrow$ remember words, practise half, then the other half gets less remembered
\#4 False Memory and Bias
$\rightarrow$ Guessing what's in Prof's office (without having been there) $\backsim$ Same process as encoding in memory!
* Memory is malleable \& suggestible!
* Asking ppi to recall differently $\rightarrow$ make ppl full indifferent gap $\rightarrow$ they reencode differently.
$\rightarrow$ Witness fake info
" how many ppl on the side with stop sign" $\rightarrow$ but now they remember there's a stop sign
* Memory bias: things remembered differenenty based on attitude
* Flashbulb memory: PpI think they remember that moment exactly (trammatic moment, 911 , etc.)
$\rightarrow$ After challenger explosion
- Psychologists ask the day after
- Ppl say they'll never forget
- 2 years later ask again
- same person says absolutely confident remember
- but some say different things.

