

WELCOME TO PSYC 110

brotip#257

before asking someone why they hate you, ask yourself why you even care.

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PSYC 110 (General Psychology)

Module 6:

Memory

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Time to start thinking about the Collab Project!



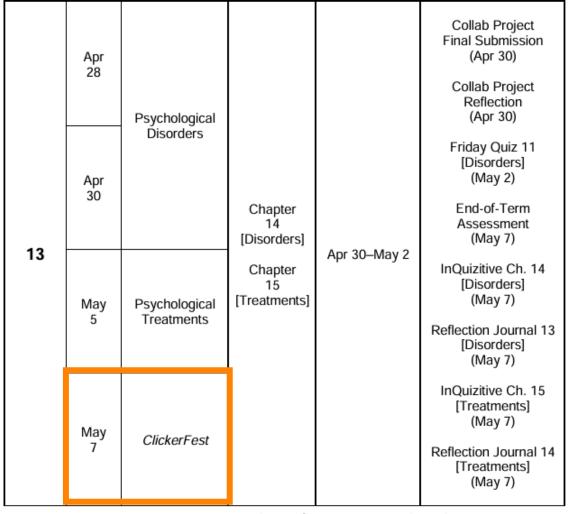


- Choose groups of two to four in your Discussion Section
- Creative media demonstration (i.e., content) of *anything* in the course, for example:
 - PSA (e.g., a commercial)
 - Video (e.g., IG Reel, TikTok, YouTube Short)
 - Podcast "clip"
 - If you have a different idea but are unsure of its relevance, check with your TA
- 60 to 180 seconds (maximum three minutes)
- Group Selection (1%) due March 14;
 TA Check-In (3%) due April 4;
 Final Submission (12%) + Reflection (4%) due April 30
- Full assignment guidelines are posted on Canvas



Course schedule update

The final class of the term will be *ClickerFest*



An exam review period of 20+ clicker questions



Clickerfest is May 7

CUCKERFEST

This will be a full class of Lecture Clickers, all collaborative, one-for-one

However, they will <u>not</u> count toward the usual drop criteria

Instead, they will count for Extra Credit!

Your performance can earn you up to 2% of Extra Credit

For example:

100% correct = 2% Extra Credit

75% correct = 1.5% Extra Credit

50% correct = 1% Extra Credit



How are we doing on SONA participation?

section	average credits earned	% of students who have	
		started	finished
	1.7	75%	9%
	1.3	63%	4%
	1.3	65%	3%
	1.0	43%	5%
	0.9	49%	3%
	0.8	43%	2%

not bad yo



Let's make a deal bc I'm competitive...

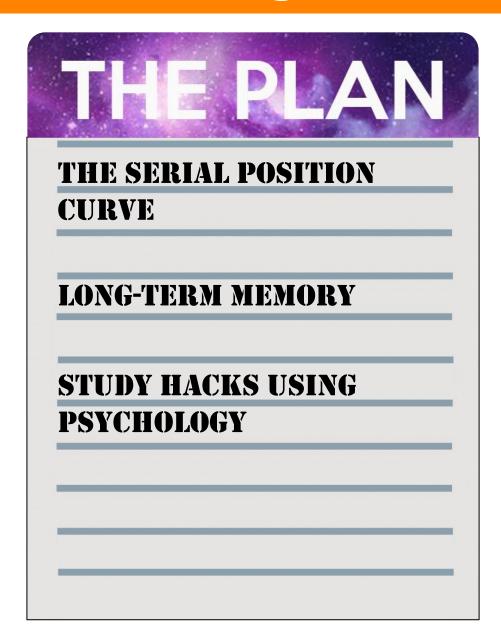
If our section places in the top TWO for research participation in all of PSYC 110 by May 5 (second-last class of the term)...

I'll perform a LIVE DJ SET for ClickerFest



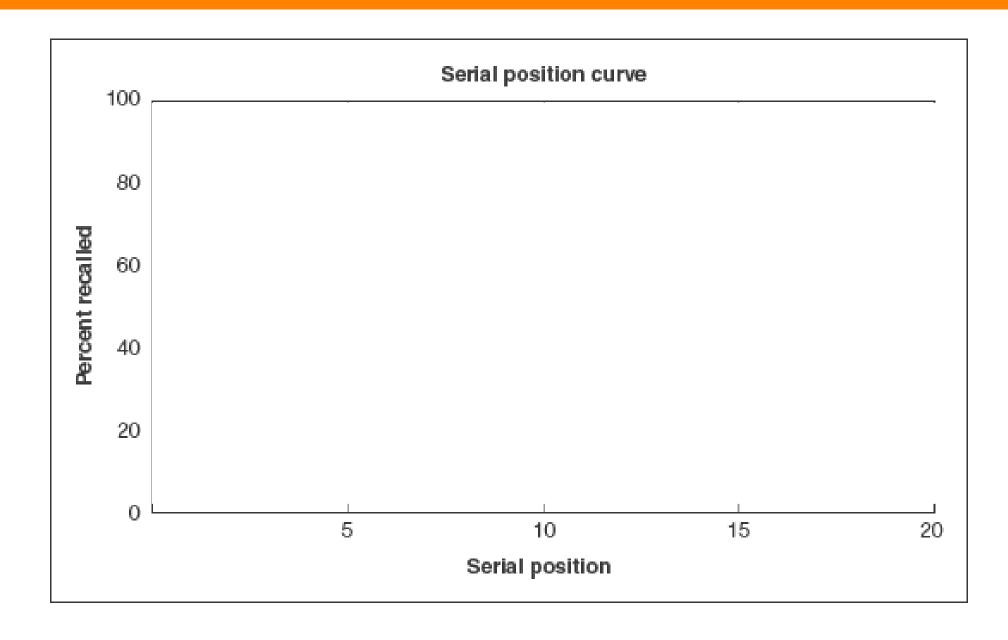


What should we get out of today?



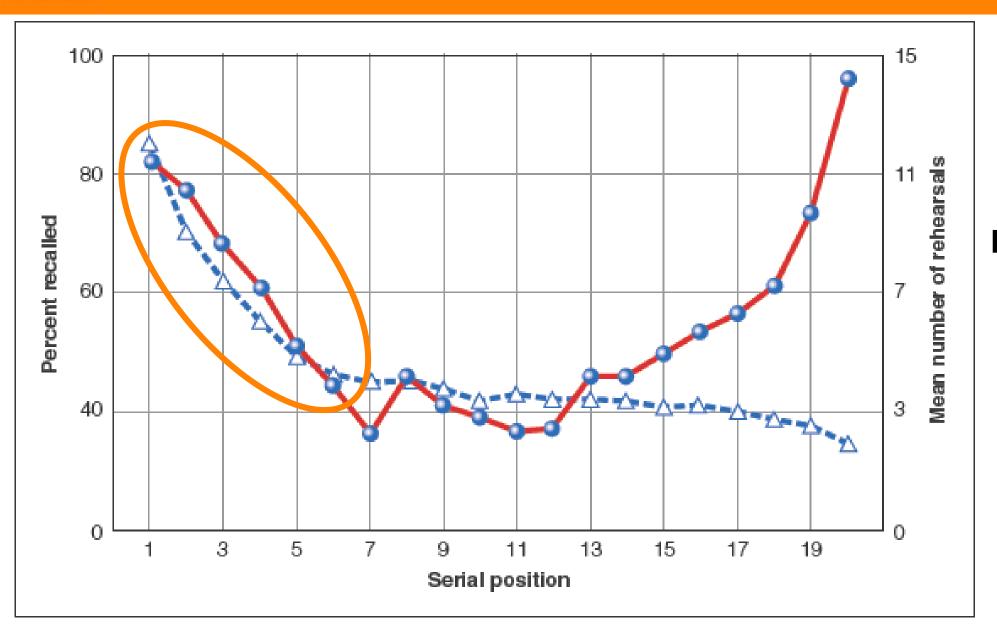


The serial position curve demonstrates encoding





The primacy effect comes from rehearsal

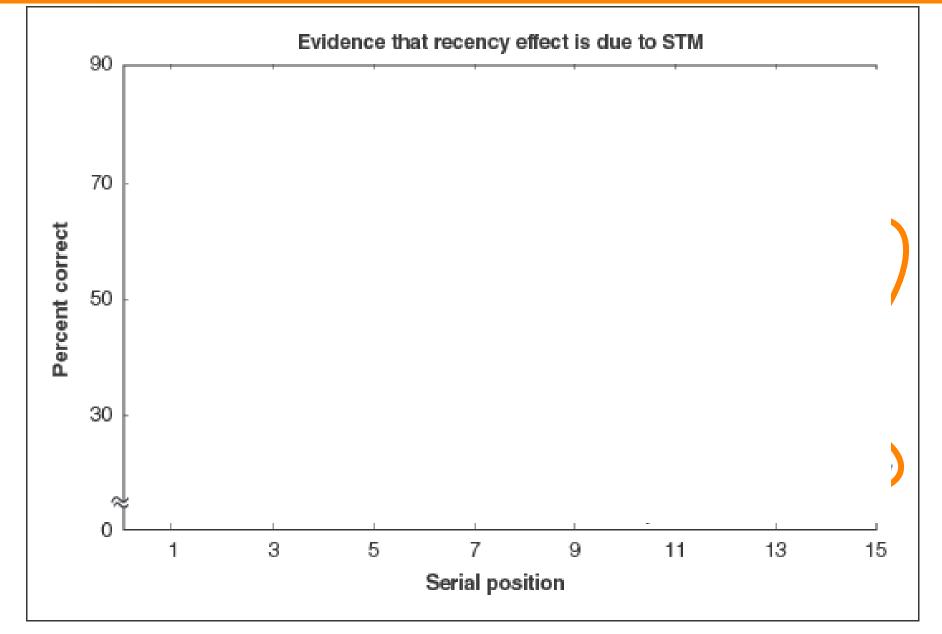


Red line = Percent Recalled

Blue line = Number of rehearsals possible



The recency effect comes from the limits of short-term memory



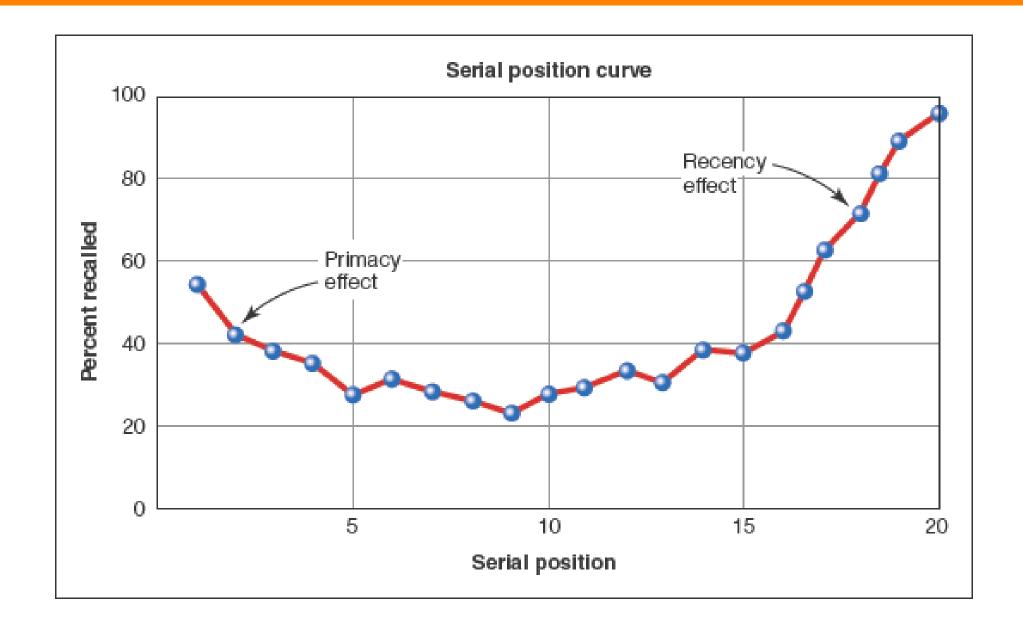
Red line = Percent recalled after no delay

Blue line = Percent recalled after 30s delay

If there is a delay between encoding and retrieval, the most recent items decay while the early items continue to be rehearsed (sometimes rehearsal is subconscious!)

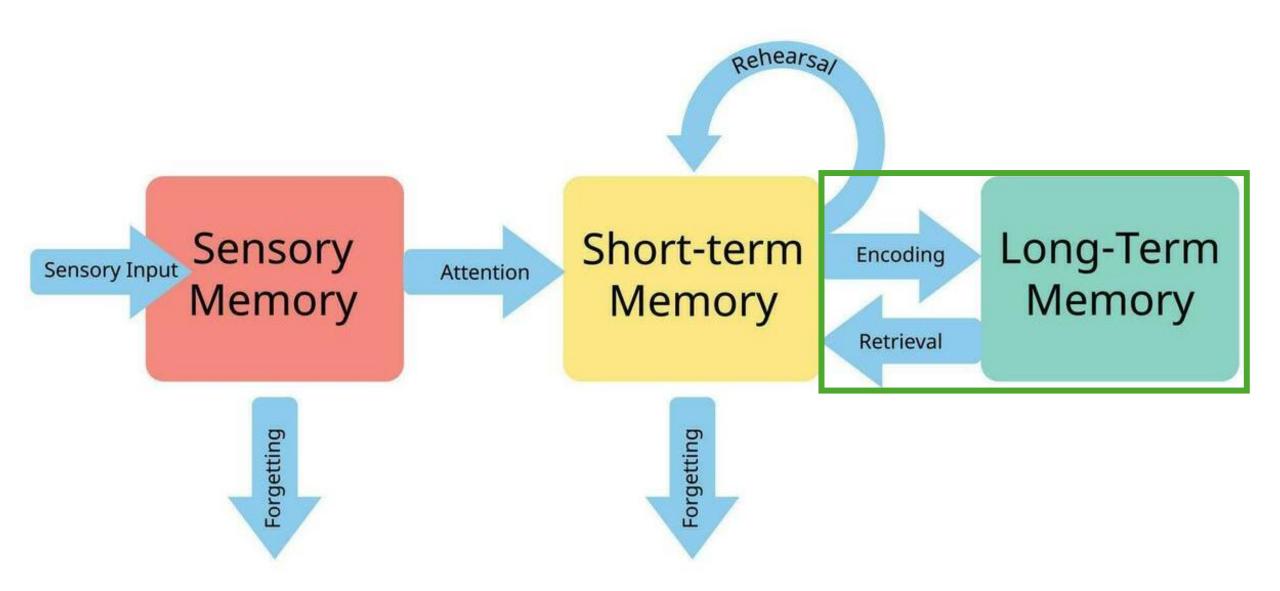


We remember items at the beginning and end of lists better than the middle





The most accepted model of memory has three tiers





Long-term memory is seemingly endless



Involves any memory stored for longer than 30s

No known capacity

Duration unknown (likely forever?)



DOINT Solutions

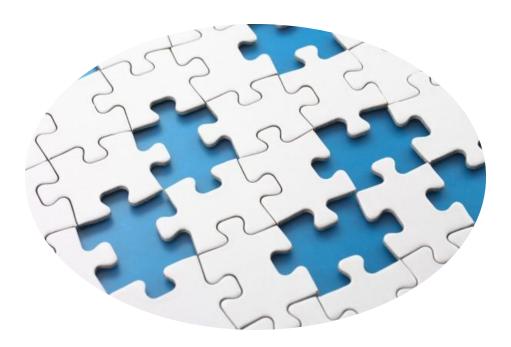
https://youtu.be/_IOT2p_FCvA?t=51

Tommy Boy (4/10) Best Movie Quote - Star Wars Happy Time (1995) (youtube.com)



BUT, long-term memory is prone to errors

Memory is reconstructive



When retrieving information from memory, we fill in the blanks of information we can't actually recall, which is top down processing!

It's impossible for us to tell what aspects of memory are actually real or not, unless they're validated externally

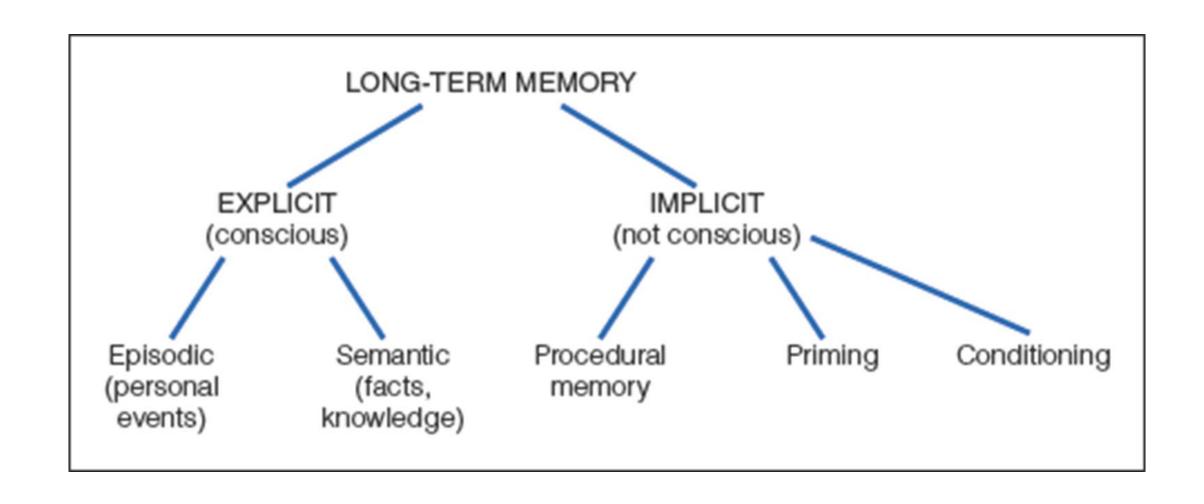


Our memories are prone to errors

<u>Take This Test and Experience How False Memories</u>
Are Made (youtube.com)



Explicit and implicit memory influence our behavior





Explicit memory is what we consciously remember

Semantic Memory

Memory of facts without personal meaning;
Objective information

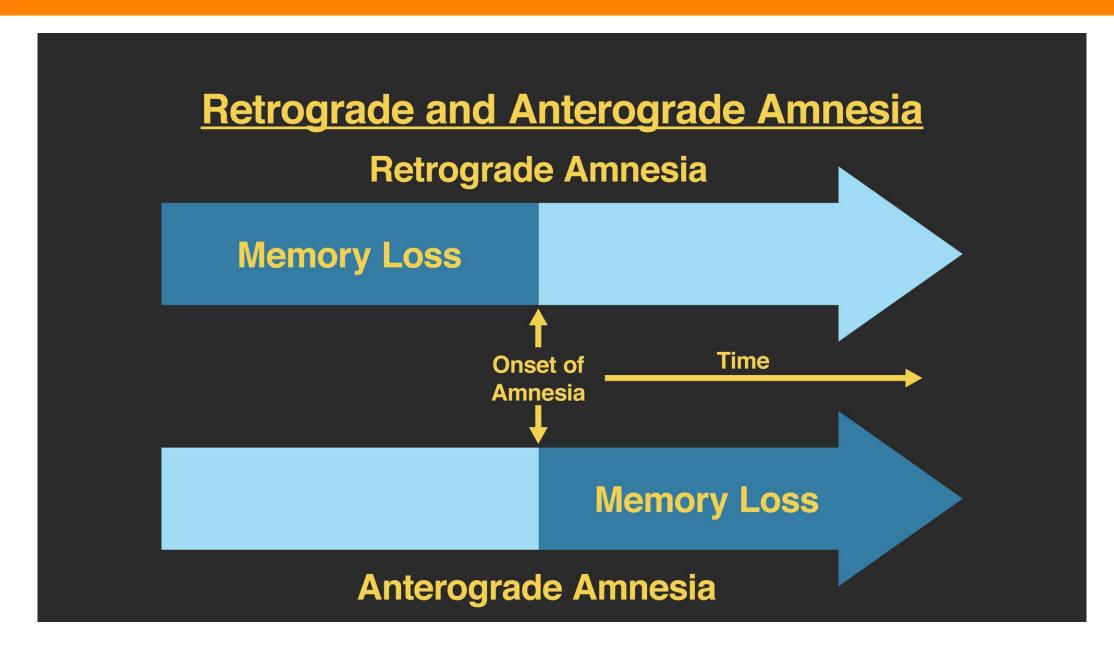
Who was the first President?

Episodic Memory

Memory of past events; Subjective information How did you learn Washington was the first President?



Memory encoding can be inhibited





Implicit memory is automatic: "Muscle Memory"

Procedural Memory

Memory of how to do things; Automatic skills The curious case of LSJ:

- Skilled violinist with hippocampus damage
- Hippocampus damage caused <u>anterograde amnesia</u>
- Wouldn't remember practicing a piece, but practicing still improved performance
- Conclusion: Amnesia affects Explicit Memory, not Implicit



Implicit memory is automatic: "Muscle Memory"

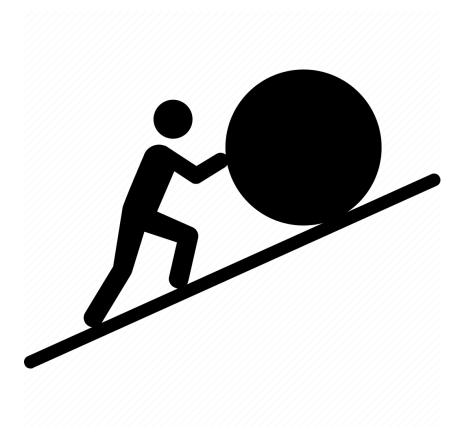
Expert-Induced Amnesia

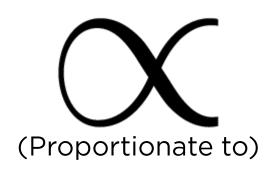
When well-learned procedural memories become <u>completely</u> implicit (i.e., when you ask the person how they perform their skill, they have difficulty explaining)

Who here considers themselves to have expertise in something? A Can you explain a basic component of your expertise?



Learning is all about improving long-term memory







Effort

Learning (or strength of LTM)



We can make things "Stick" through strategies

Study Hack 1:

Generation



<u>Elaboration</u> = Putting information in your own words

Create your own ways to <u>test</u> your knowledge



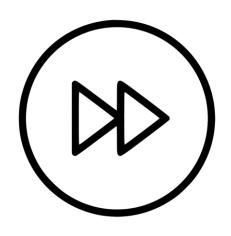
Rehearsal influences how information is stored



Maintenance Rehearsal

Repeating information over and over

- Best for short-term memory
- Repetition without contextualization
- Often leads to forgetting after a short time



Elaborative Rehearsal

Understanding and engaging with information

- Best for long-term memory
- Contextualizes information for better storage and retrieval
- Examples include chunking, rhymes/puns, mnemonics, mind mapping, and self-testing



Self-testing is a research-supported elaborative rehearsal method



With your notes open, write practice questions

Try to focus on application: apply the concept to something familiar

After you've made practice questions for everything you want to study, leave it for a while (and study in whatever way you'd like)

Come back and do your own practice questions *without* your notes



Self-testing is a research-supported elaborative rehearsal method



Recall >>>> Recognition

Make short-answer questions, not multiple-choice

Recognition is easy and less effortful

The less cues needed to retrieve, the stronger the memory

Recall practice improves Recognition performance, but not vice versa



Self-testing is a research-supported elaborative rehearsal method



Delayed feedback strengthens retention

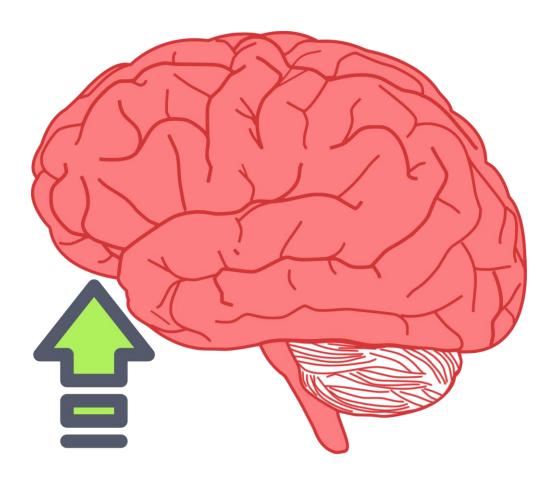
When self-testing, avoid looking at the answer after every question—
do a few then review



Our brain is bad at determining what's important to remember

Study Hack 2:

Encoding Specificity / Context-Dependent Memory



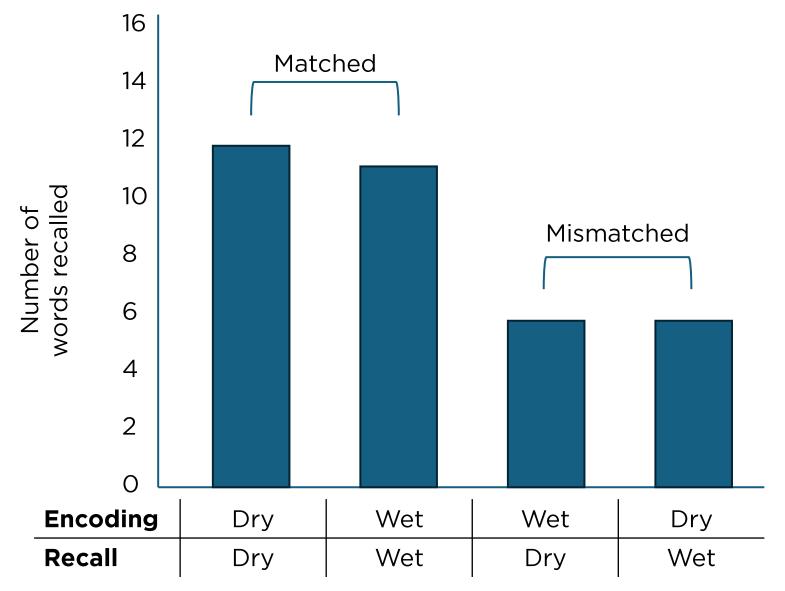
When our brain encodes a memory, it encodes *everything* happening regardless of what's actually important to remember

But Trenton, what do you mean by the brain encodes *everything?*





Our brains encode context with information



Scuba-Diver Experiment

Participants learned a list of words while in the water or on dry land, then recalled them in each environment

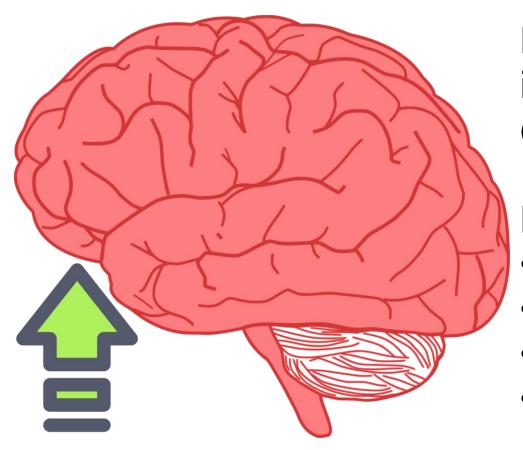
Could recall words learned in same environment better than alternate environment



Take advantage of your brain!

Study Hack 2:

Encoding Specificity / Context-Dependent Memory



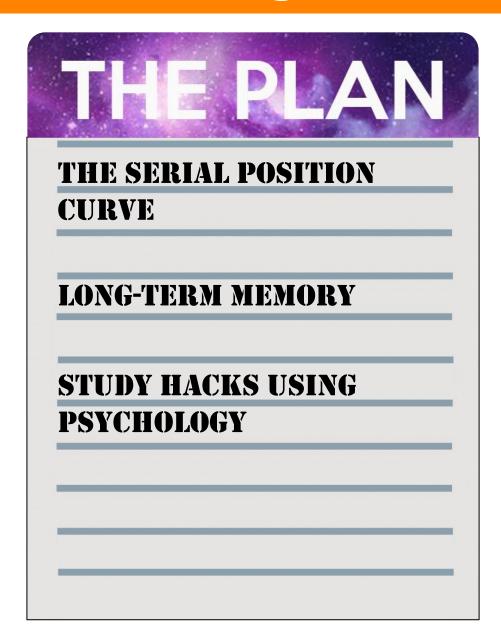
Retrieval during testing can be improved by replicating the encoding (study) environment

For example:

- Wear the same clothes
- Chew the same gum
- Use the same pen/pencil
- Study in the same room as the test



What should we get out of today?





How did we do?



For y'all:

Friday Quiz on March 7

InQuizitive due March 9

Reflection Journal due March 9

Collab Project groups due March 14

Friday QuizTerm is March 14

Remember to get your SONA credits done!