Recap

- Repetition
- Spacing
- Recency
- Movie clips with different music
- Car commercials
- Context

Context-based explanations for...

- Practice makes perfect
- Efficacy of massed vs. spaced practice
- Recency and forgetting
- Study/test context effects

Context and repetition

- When we repeat something, we experience it in multiple contexts
- Each context is an opportunity for us to recall it
- The more opportunities, the better our chances of recall

Context and spacing

- Context changes gradually
- The more time we wait, the more context changes
- The more different two memories' contexts, the more distinct opportunities for recall

Recency and forgetting

- Context changes gradually over time
- Our mental context "now" tends to be more similar to our mental context in the recent (vs. distant) past

Study/test context

- Studying something in a particular contexts builds associations between what is studied and the context it's studied in
- Re-visiting that context later reactivates thoughts about that context any anything associated with it

Real-world implications

- How might you overcome study/test context effects?
- How might you intentionally influence your mood?
- How might you intentionally forget something?

The (usual) way things are done





Recognition memory & strength theory

PSYC 51.09: Human Memory Spring 2022

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Chapter 2

- Focus: item recognition. (But these ideas also apply to real-world recognition.)
- Two components to studying recognition memory:
 - New types of **analyses** to quantify people's memories
 - Our first memory models: little machines that take in lists as input and produce memory behaviors as output. (How might we evaluate them?)

Examples of stimuli (items)







Item recognition

- There are many ways to test people's memory
 - Forced choice
 - Yes/No

Which did you see?





Did you see this?



Different responses

	What you SAY		
		"yes" (it is old)	"no" (it is new)
What it IS	Target (old)	HIT	MISS
	Lure (new)	FALSE ALARM	CORRECT REJECTION

- Each memory (of an item) has a single number associated with it (one memory = one number)
- The number represents the degree to which that item evokes a sense of **familiarity**

hould practice words to get ther your long-term memory. Still strong Pretty good Time to practice
Pretty good Time to practice
Time to practice
Overdue

- Something to consider: we (memory theorists) made up the idea of memory strength...is it useful?
- We cannot observe strength (it's a theoretical concept)
- We can't measure the strength of an item
- But let's play a logic game: if strength theory is true, what are the consequences?
- Where do we start?

- The participant studied a list of words
- The word list comes from some larger word pool
- Each word is *already* familiar to the participant (to some extent), which means each one already has a corresponding memory (and a corresponding strength value)

