PRIMING EFFECT

 Priming effect occurs when people respond faster or better to an item if a similar item preceded it.



Context Effects

- Putting yourself back in the same context you experienced (encoded) something primes your memory retrieval.
 - If you study on your favorite chair at home, you will probably score higher if you also took the test on the chair.
 - In marketing, companies know that if you have a pleasant experience in their establishment, you are more likely to return at a later date to make purchases.



deja vu Sometimes, being in a context similar to on we've been in before may trigger what Neo experienced...



Déjà Vu

Is déjà vu really a glitch in the Matrix?



- That eerie sense that you have experienced something before.
- More likely to occur when you are tired or stressed
- What is occurring is that the current situation cues past experiences that are very similar to the present one- your mind gets confused.

Mood-Congruent Memory The tendency to recall experiences that are

- The tendency to recall experiences that are consistent with one's current good or bad mood.
- If you are depressed, you will more likely recall sad memories from you past.
- Moods also effect that way you interpret other people's behavior



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State-Dependent Memory

 We retrieve information best when we are in the same <u>state</u> as we were when we first performed or learned the task.







Can you identify the real U.S. penny?



1976

LIBERTY

FORGETTING



Why do we forget?

Forgetting can occur at any memory stage. We filter, alter, or lose much information during these stages.



Why Do We Forget? Five Key Theories



- Encoding Failure
- Decay
- Retrieval Failure
- Interference
- Motivated
 Forgetting

1. Encoding Failure



- We fail to encode the information.
- It never has a chance to enter our LTM.

2. Storage Decay (Transience)

- Even if we encode something well, we can forget it.
- Without rehearsal, we forget things over time.
- Ebbinghaus's forgetting curve.



Ebbinghaus's memory experiments showed that...

- Forgetting is most rapid within the first 9 hours.
- Material that is studied beyond mastery (over-learned) is remembered longer.
- Repeated learning sessions over a longer interval of time improves memory retention in any subject.
- Items toward the beginning and end of a series are most easily remembered.
- Meaningful things are remembered for about 10 times longer than random meaningless things.
- Items forgotten can be relearned faster than new ones learned for the first time.

In 1885 Hermann Ebinghaus became the first psychologist to systematically study learning and memory.

Hermann Ebbinghaus

Rehearsal,

rehearsal

rehearsal



Nonsense Syllables

84. In dot hauf mand his tok then hok shiel tom chin jos noit sit mok ham leit 2, jain not firs lech chip mis joch ihom deik laut tur bal bim san for gaut 3; tuch dick hof sheit has his chois man for much nik geich tush choir ban gam 4. noif dun has lef dauf zit touch jof Stein paul nom wen chaush shup buf theil St par loit reis jop wir non jush fek G mind got much top dok not town has C saush how their sein bauf sam dal dut 7, "hoir gis don fort sok sach choch leif tak mann such sand goist nur choit than 8, bit dup shas nam thest die taut that raf jech map shan shill sein mas guin 9, neif shin dawn shich not lich baf them tim tish tim nis that won lice cham

E. B. Titchener wrote that Ebbinghaus's invention of the nonsense syllable was the greatest advance in memory research since the time of Aristotle.

3. Retrieval Failure

 The memory was encoded and stored, but sometimes you just cannot access the memory.



3. Retrieval Failure

<u>Tip-of-the-Tongue Phenomenon (ToT)</u>

 When you can't easily recall an item but show memory for some of its characteristics.





4. Interference

- Proactive Interference
- The disruptive effect of prior learning on the recall of new information.



If you call your new girlfriend your old girlfriend's name.

4. Interference



Retroactive Interference

 The disruptive effect of new learning on the recall of old information.

When you finally remember this years locker combination, you forget last years.