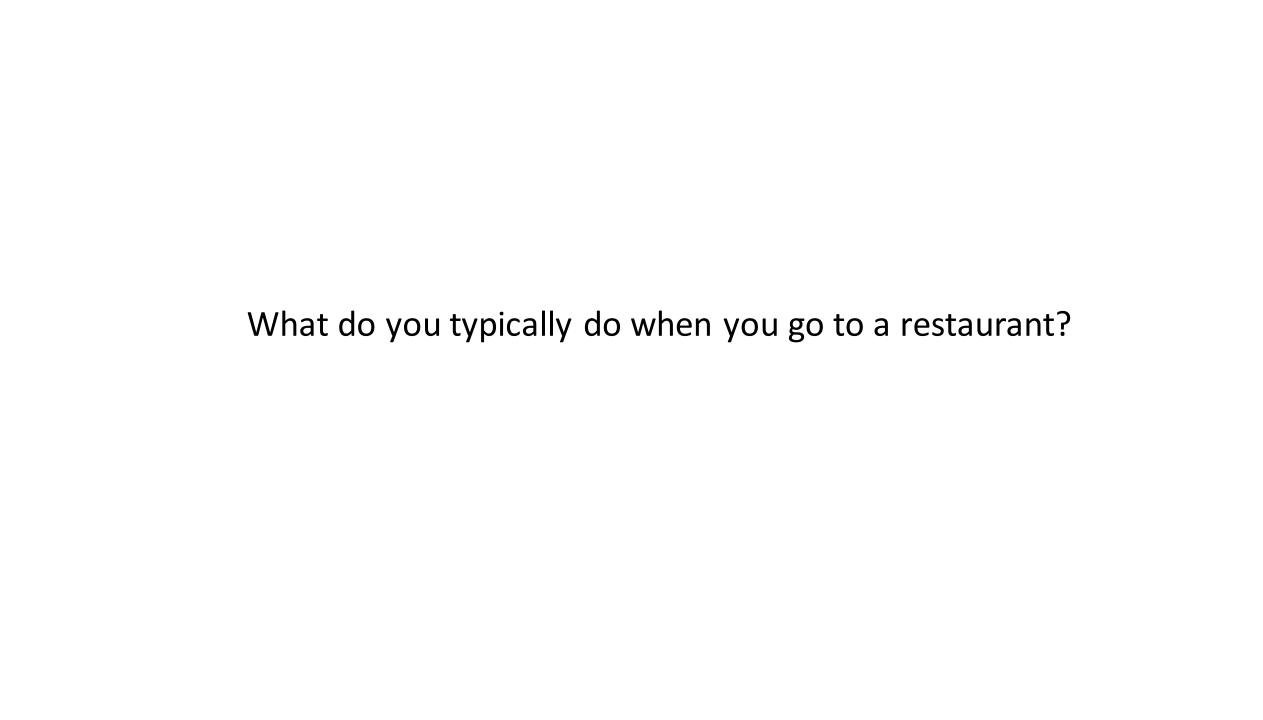
Memory and more

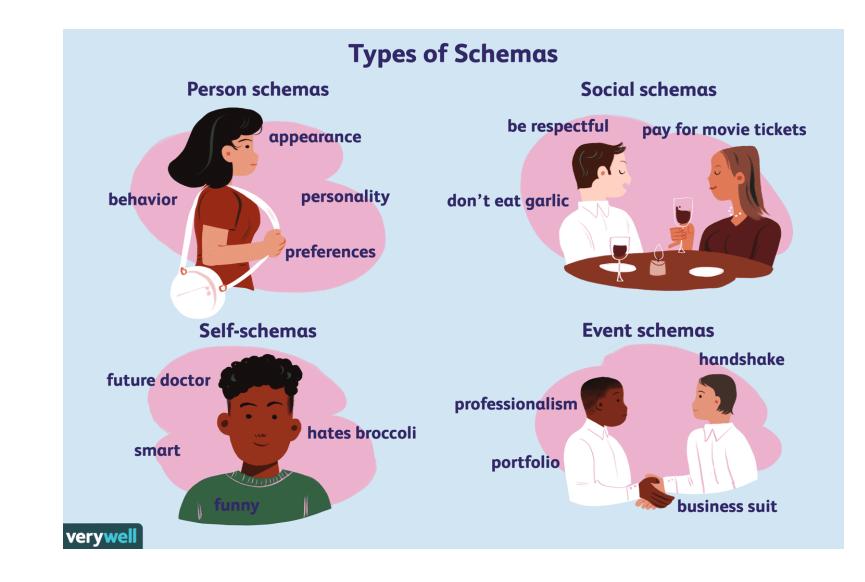
31st March 2022

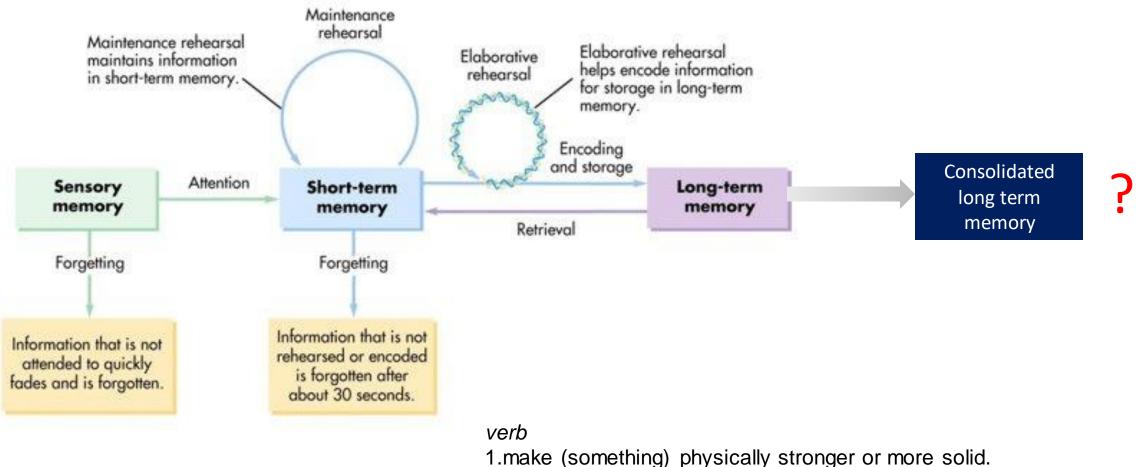
Bhaktee Dongaonkar



Schemas

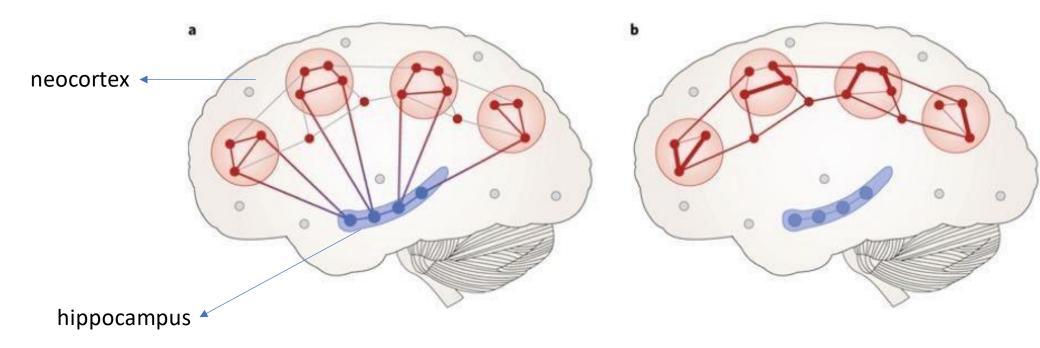
A schema is a cognitive structure that serves as a framework for one's knowledge about people, places, objects, and events.





"the first phase of the project is to consolidate the outside walls"

2. combine (a number of things) into a single more effective or coherent whole. "all manufacturing activities have been consolidated in new premises"



Cell ensembles contributing to...



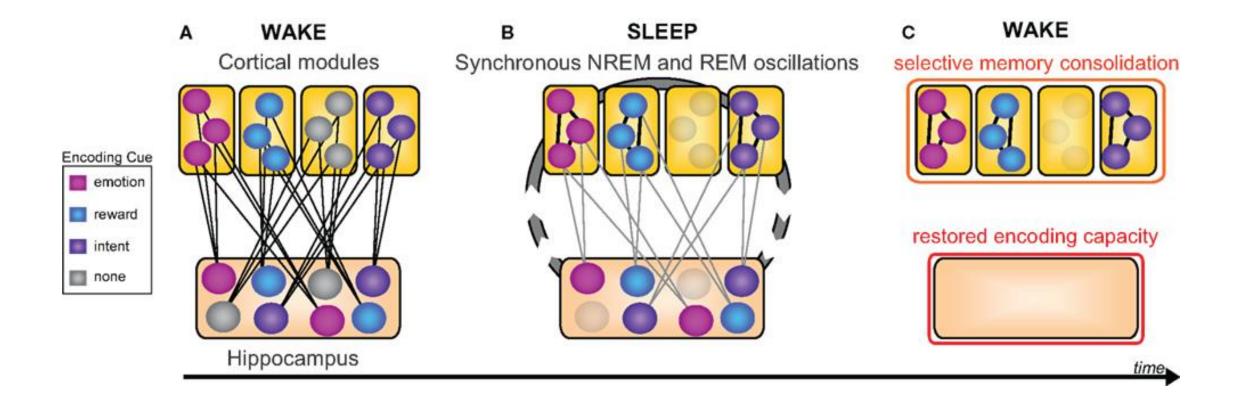
Recently encoded neocortical part of a representation



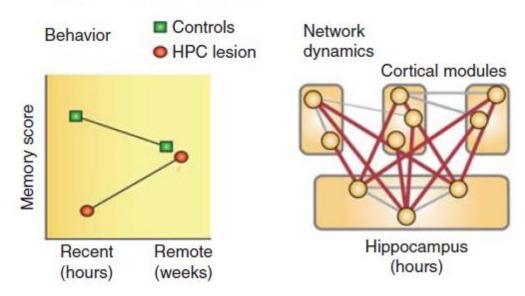
Recently encoded hippocampal part of a representation

- Associated pre-existing representation
- Unrelated pre-existing representation

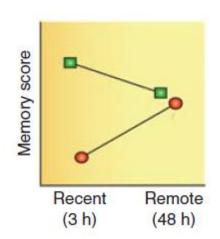


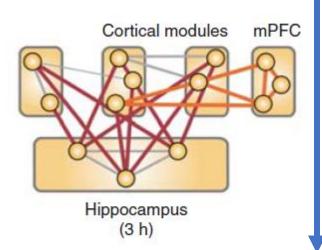


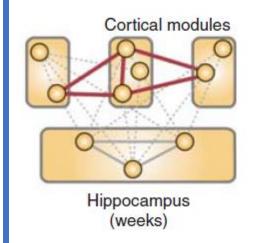
A Standard systems consolidation

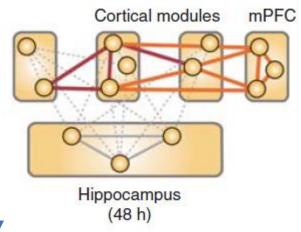


B Systems consolidation with schema

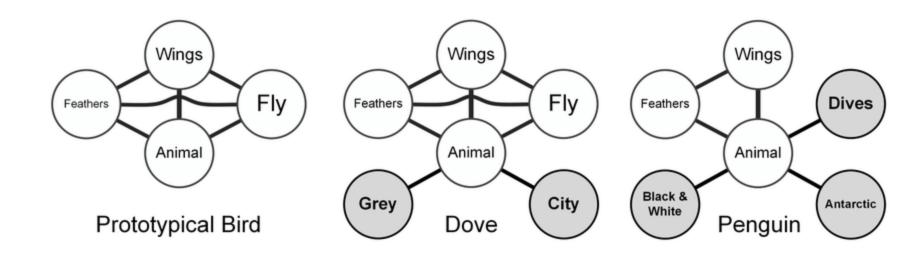




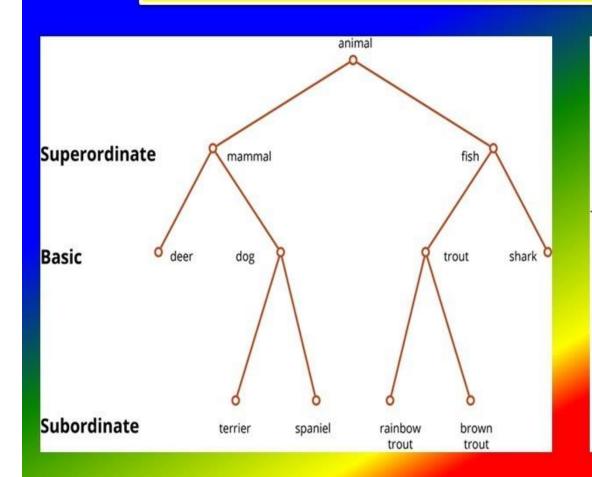


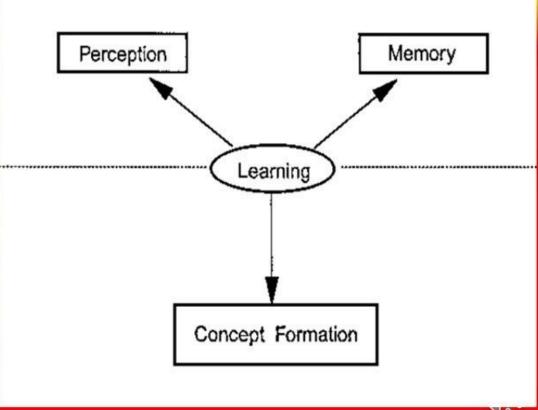


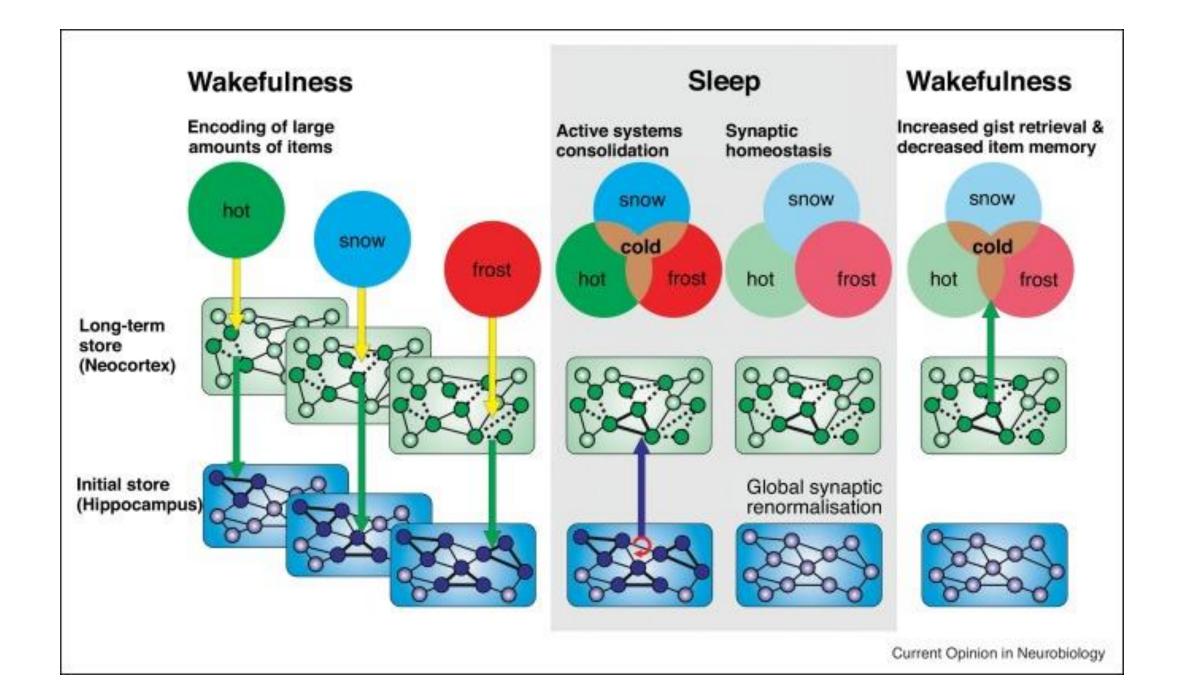
Concept of a Bird

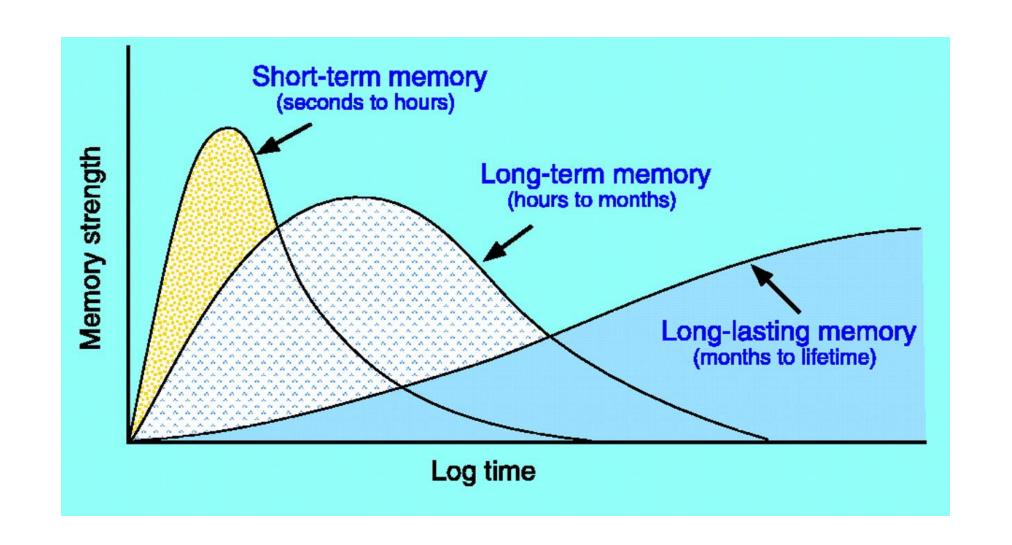


CONCEPT FORMATION



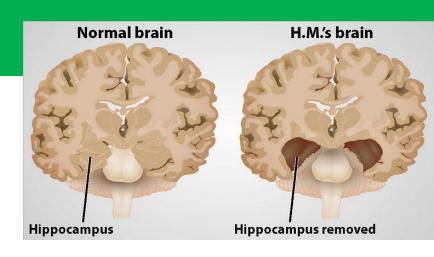








Patient HM



- Henry Molaison (1926-2008)
- At age 7, HM was knocked down by a bicycle
- Accident resulted in seizures, could not lead a normal life
- At 27, HM's bilateral medial temporal lobes removed to control his seizures.
- After surgery, HM could remember his name, family, and childhood.
- But he could not remember his day- to- day activities, not even his doctor, Dr. Scoville, who visited HM daily.



Patient HM

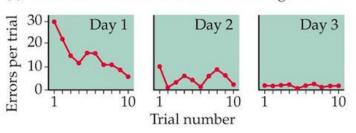
Dr. Brenda Milner
Clinical Neuropsychologist
McGill University
Montreal, Canada

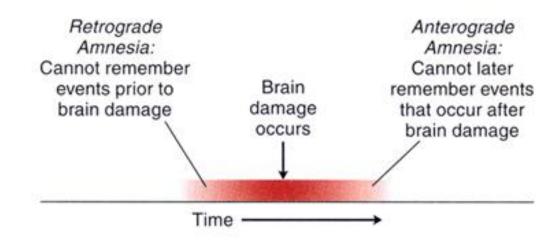
- IQ was intact.
- Could remember facts, schemas, and general knowledge.
- Could learn motor skills (like tracing a star by looking at its mirror reflection) over many practice trials, but was never conscious of these learning sessions.
- Short term memory was intact
- NO LONG TERM MEMORY

(a) The mirror-tracing task



(b) Performance of H.M. on mirror-tracing task

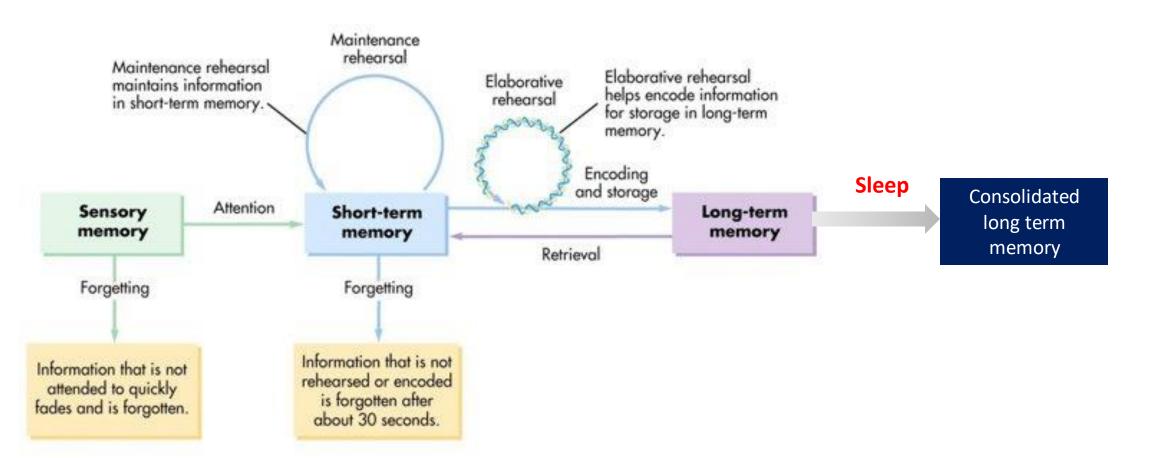




Retrograde amnesia - difficult to remember events from the past few years leading up to his surgery

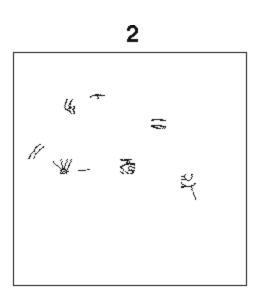
<u>Antero-grade amnesia</u> – HM could not form new memories

He lived only in the present.



What are memories used for?

Visual Priming



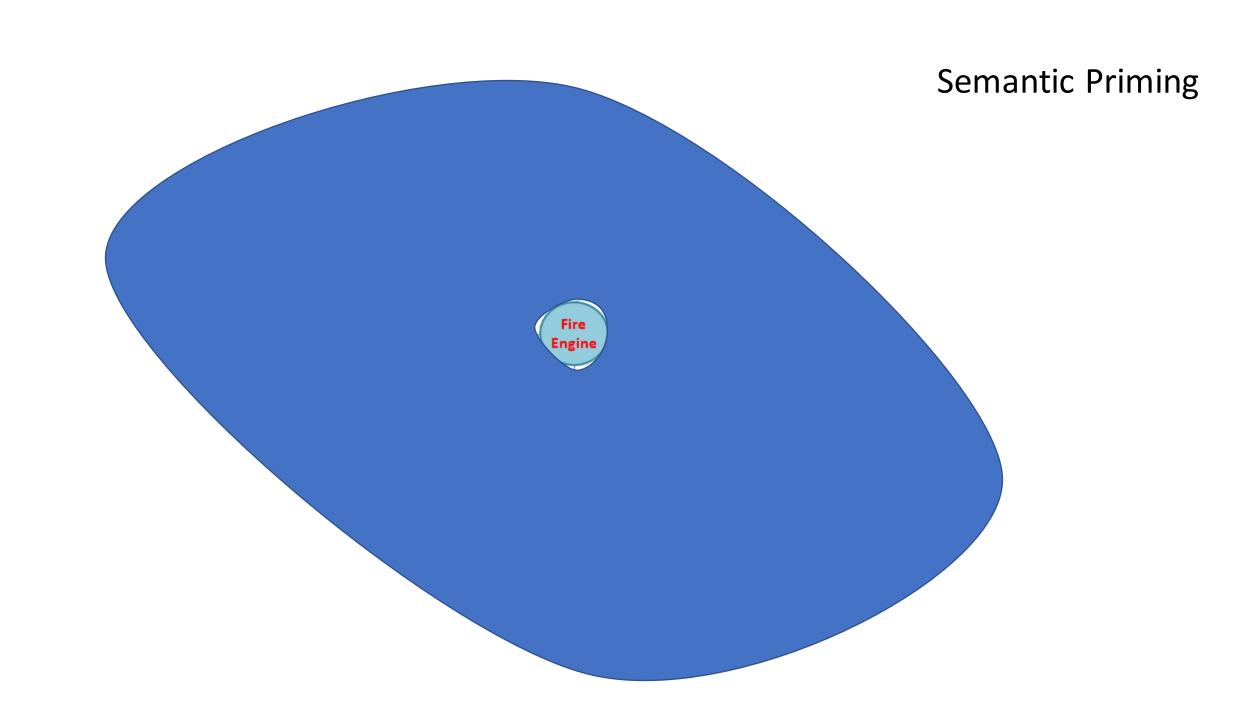
RED

BLUE

ORANGE

YELLOW

GR___







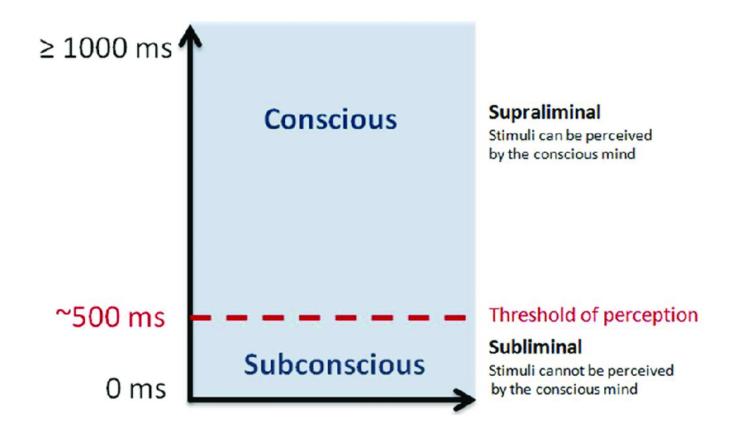
cognitive priming

refers to temporary increase in the accessibility of thoughts and ideas. for example, violent media activates thoughts or ideas about violence, which activate other aggressive thoughts through their association in memory pathways.



You own a restaurant and a ordered too much French wine. A good way to psychologically prime your clients into buying this type of wine is to play French music in the background.

Priming works by using associations made in our subconscious, and are almost always unnoticeable to the subject.







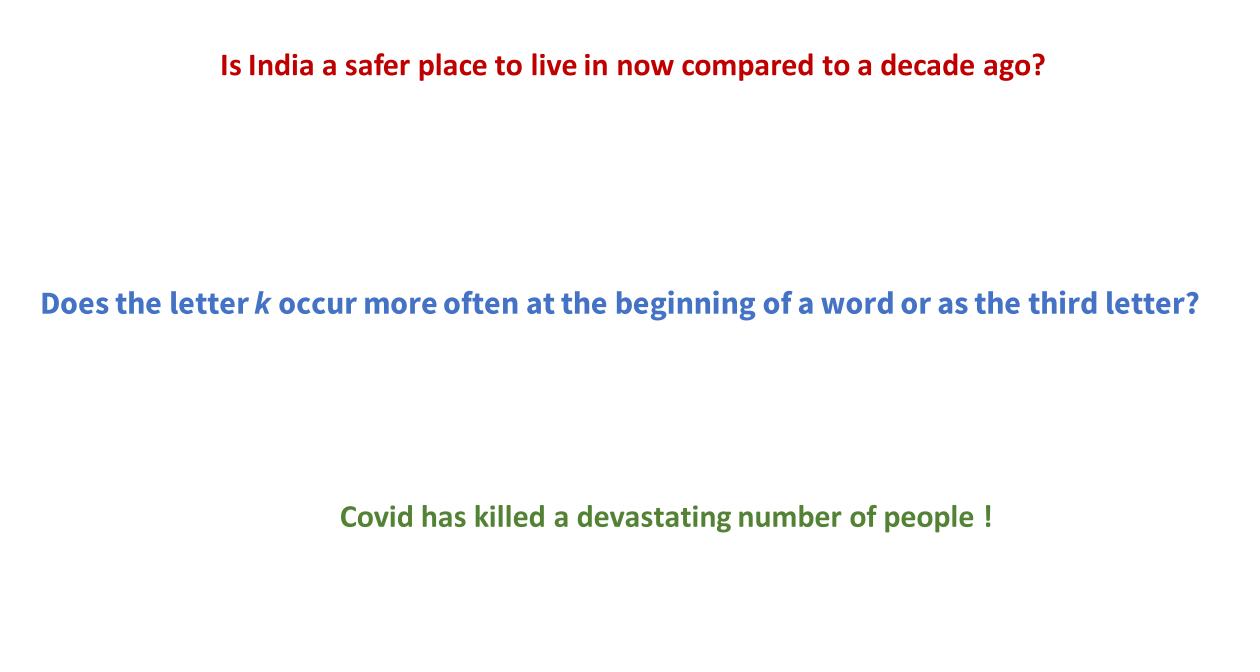


http://karakreative.bio.gspot.com/2013/02/graphic-designer-of-month-paul-rand.html http://wineo.com/putorti

http://tech.fortune.cnn.com/2011/06/27/quoras-designing-woman http://topics.nytimes.com/top/reference/timestopics/people/f/shepard_fairsy/index.htm





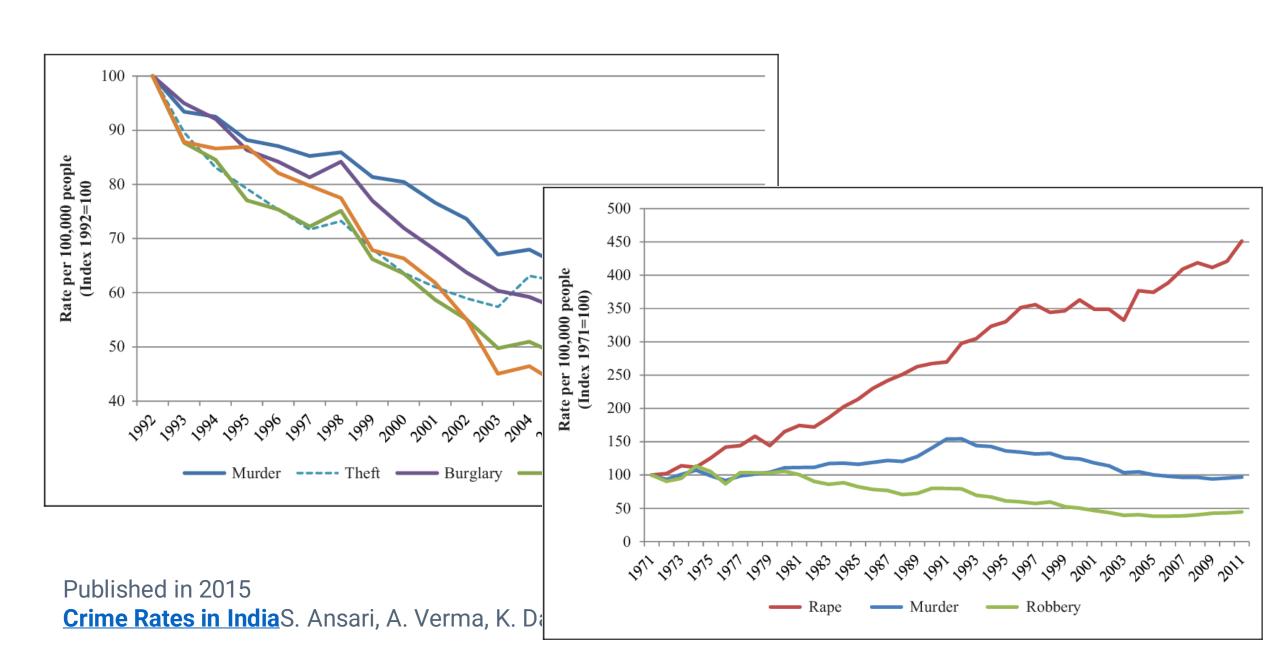




K in first position 105 (69.1%)

K in third position 47 (30.9%)

Is India a safer place to live in now compared to a decade ago?



1.Frequent is easier to recall than infrequent

2.Extreme is easier to recall than ordinary

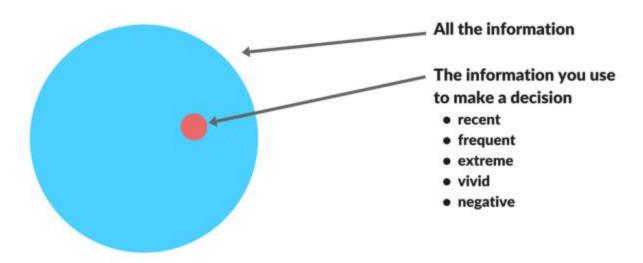
3. Negative is easier to recall than positive

4.Recent is easier to recall than the distant past

5. Vivid is easier to recall than non-vivid

what comes to mind the easiest—what's most available—is true.

The availability heuristic





Follow

In the East, it could be the COLDEST New Year's Eve on record. Perhaps we could use a little bit of that good old Global Warming that our Country, but not other countries, was going to pay TRILLIONS OF DOLLARS to protect against. Bundle up!

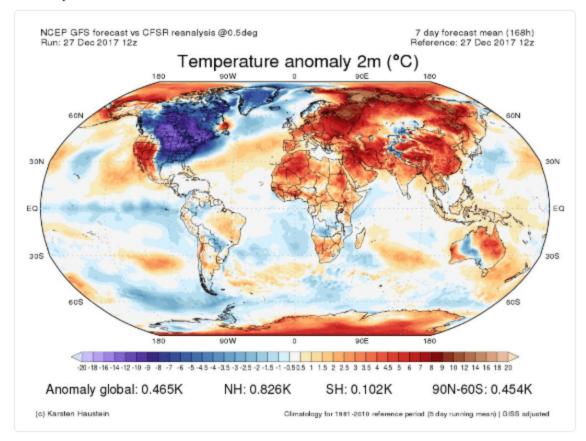
4:01 PM - 28 Dec 2017





The coldest weather (relative to average) will be positioned right over North America through at least the next 7-days...

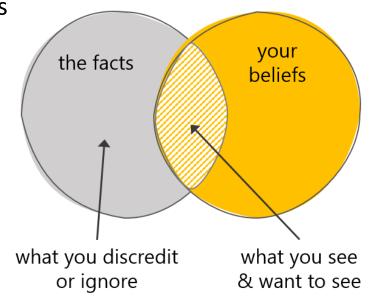
[Maps: karstenhaustein.com/climate]



A particular university ranks high because it takes high ranking students

Voters seek info that supports their opinion/beliefs

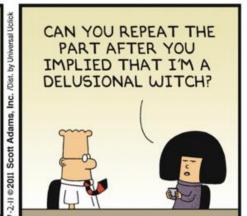
will ignore information from news broadcasters that contradicts their existing views.



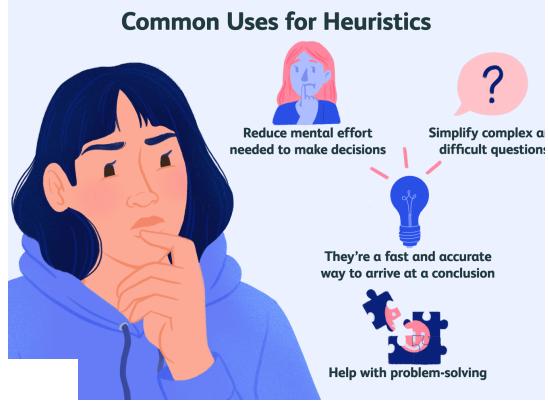
Confirmation bias

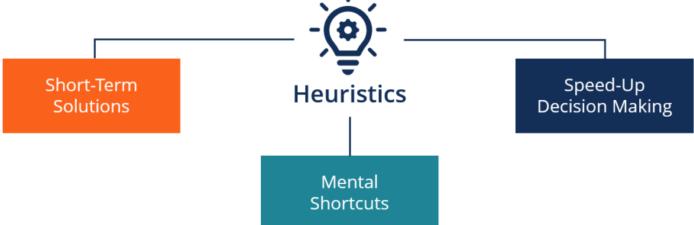


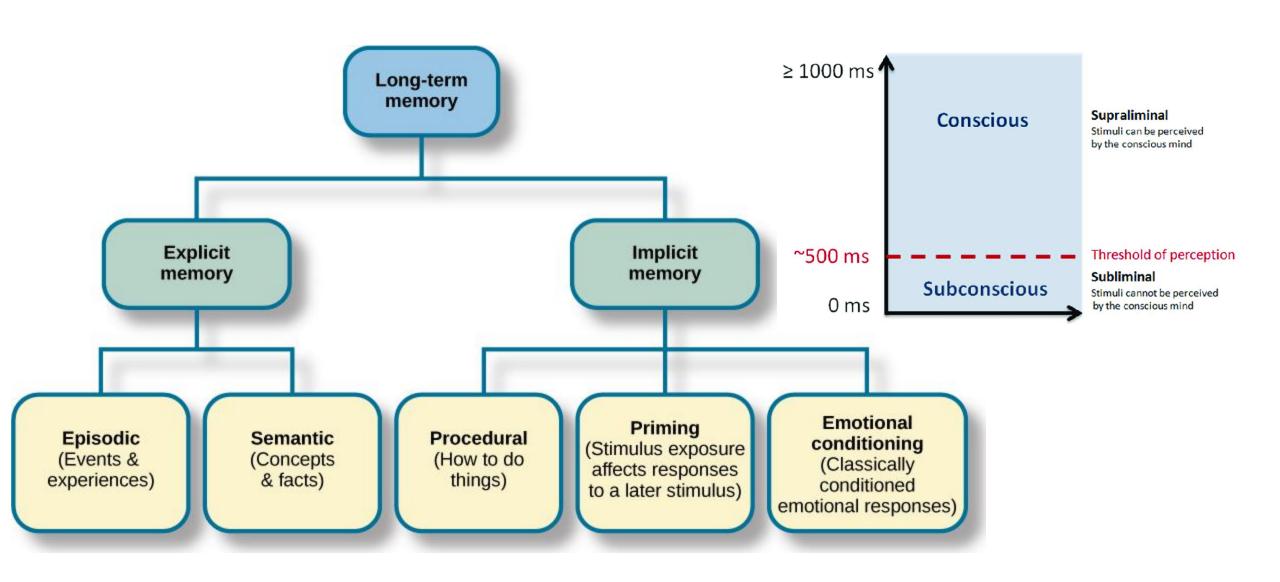




Heuristics?







Which factors affect memory?