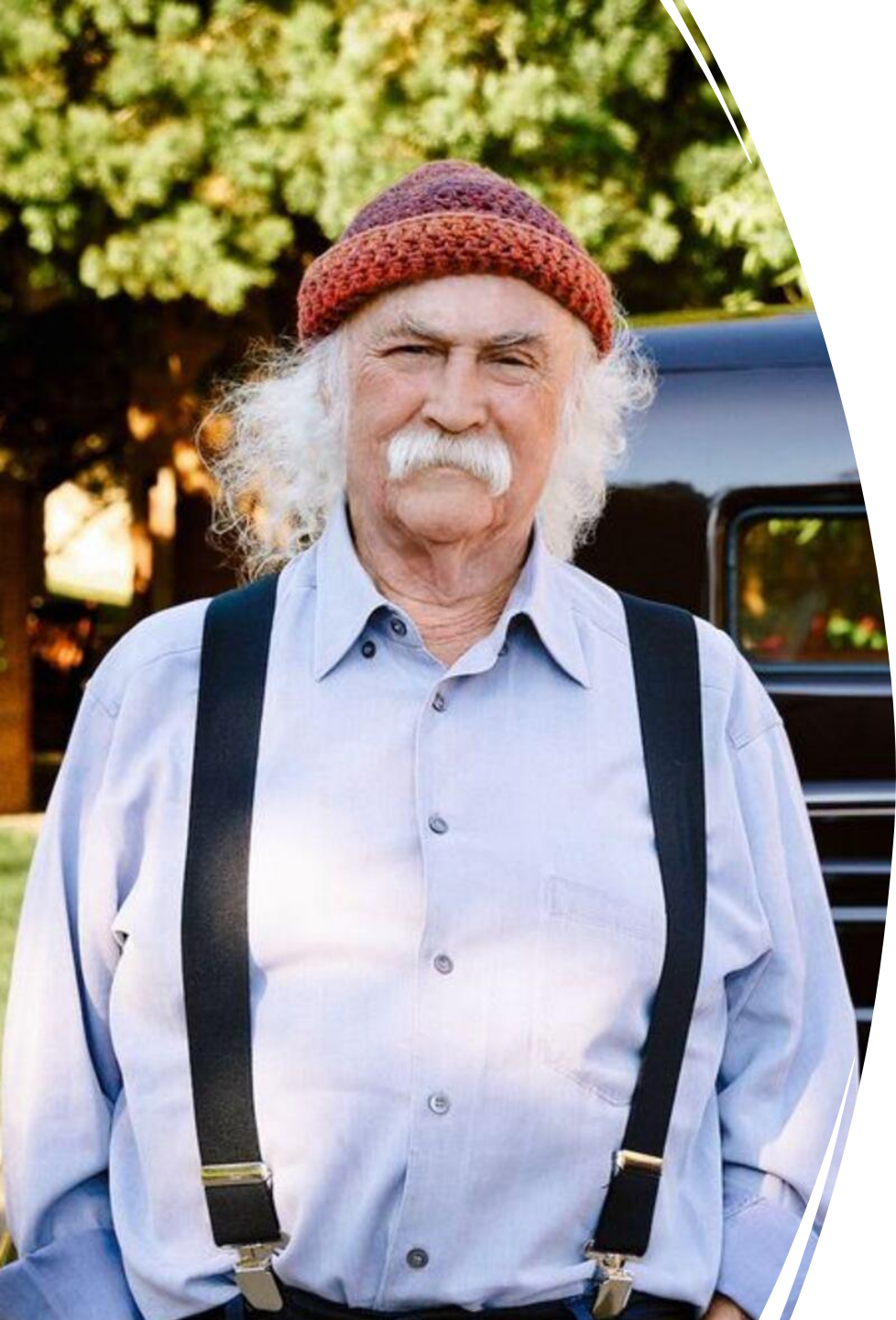


Carbon vs Silicon

Or Carbon and Silicon

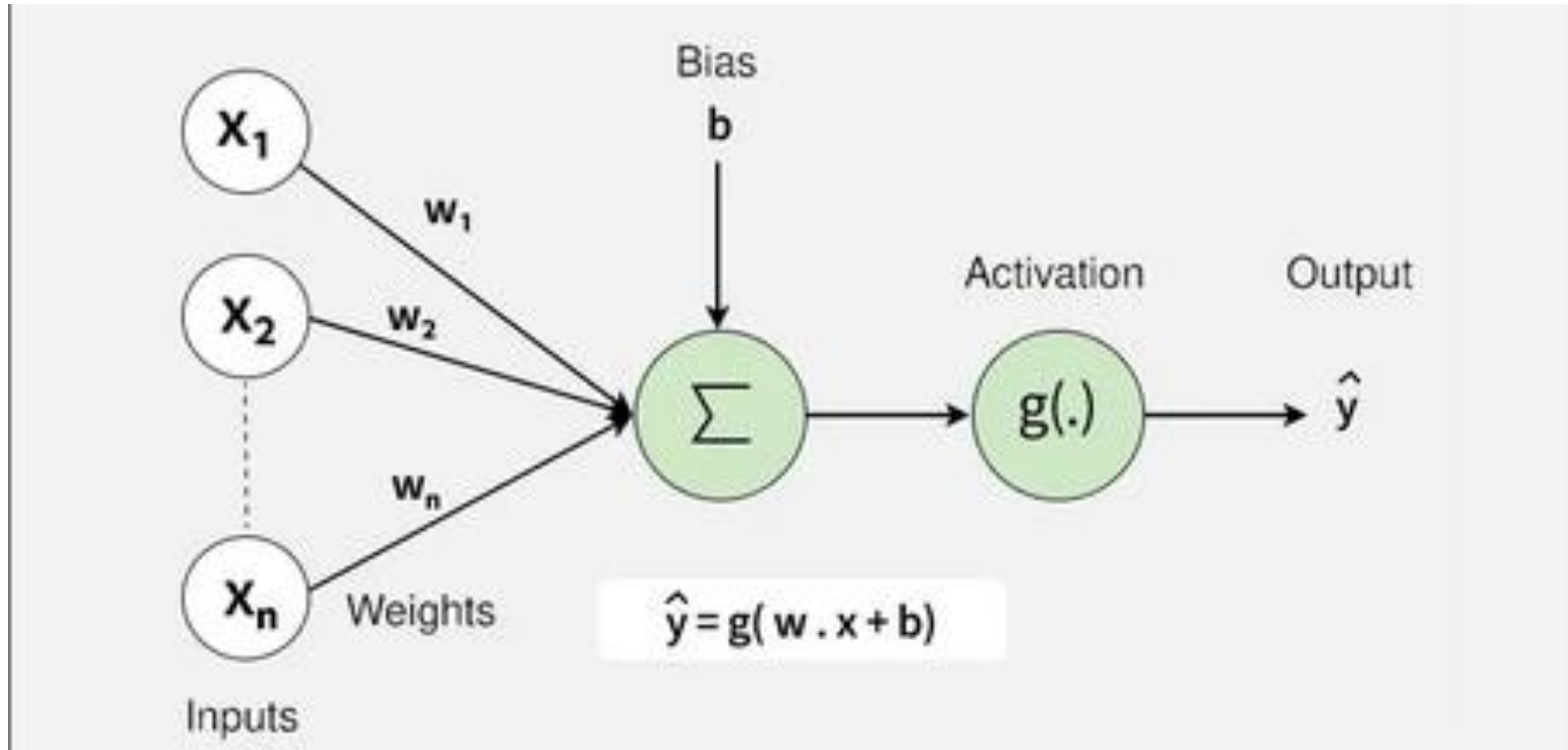


Human Neural Network



Suspenders

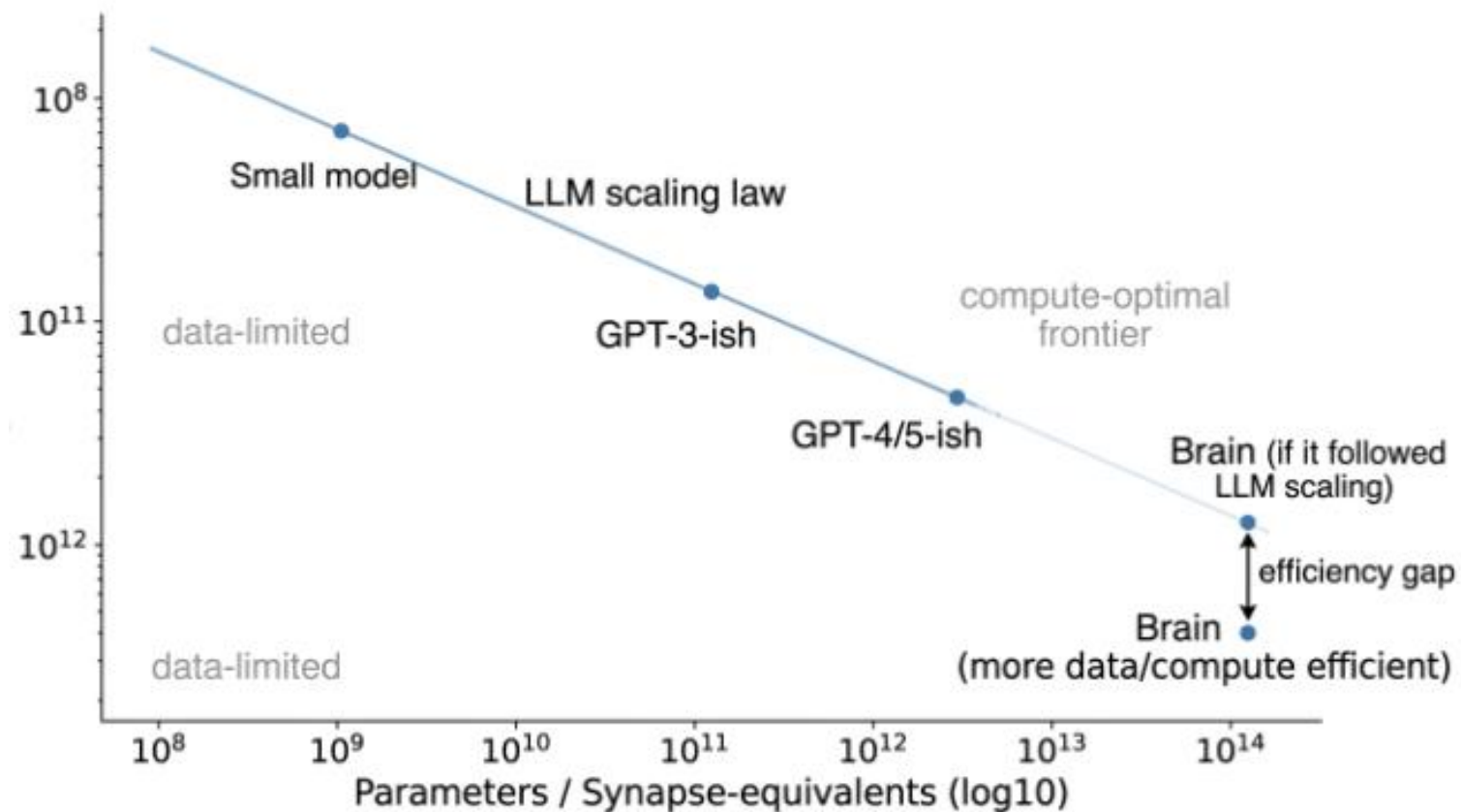
AI Neural Network (Simple)



Significant Differences -- Scale

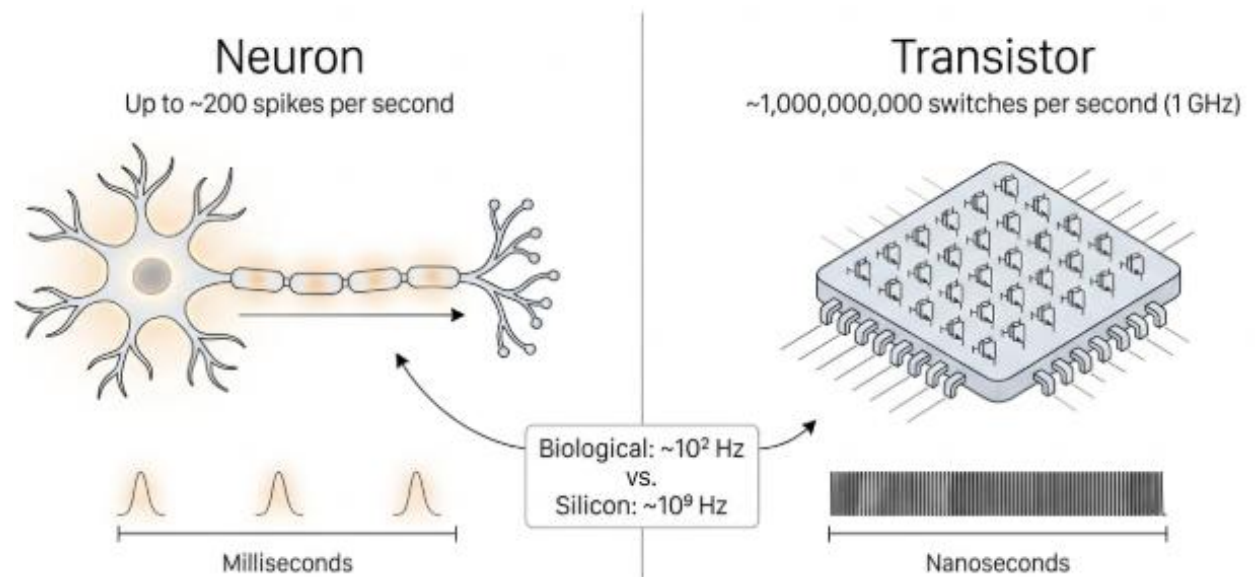
- Brain : ~ 86 billion neurons x thousands of synapses = ~ 100 trillion connections
- ChatGPT5: ~ 1 – 2 trillion parameters
- Brain is roughly 100 times denser, neurons change over time, LLMs are frozen

An Imperfect Comparison



Speed and Processing

- Brain: Neurons fire ~ 200 times / second
 - But in Parallel
- Computer (silicon): switches at gigahertz speed
 - Von Neuman Architecture





Memory

- Brain: Contextual, emotional, and associative
- LLM: Limited to a context window. Forgets once conversation ends.*
- The brain has a lifetime diary; an LLM has a scratch pad

* Evolving

Creativity and Error

- Brain: Imaginative, improvisational, emotional
- LLM: Predictive, pattern-based
 - Appears creative but is statistical
- The Brain dreams
- The LLM remixes



AI is Von Neumann – For Now

- Von Neumann: Sequential, Memory-fetching, Instruction driven.
 - Neural Networks: Massively parallel but built and executed on Von Neumann machines.
 - Future: Quantum Computer: Explores all paths at once.
-

Where You Have an Edge (now)



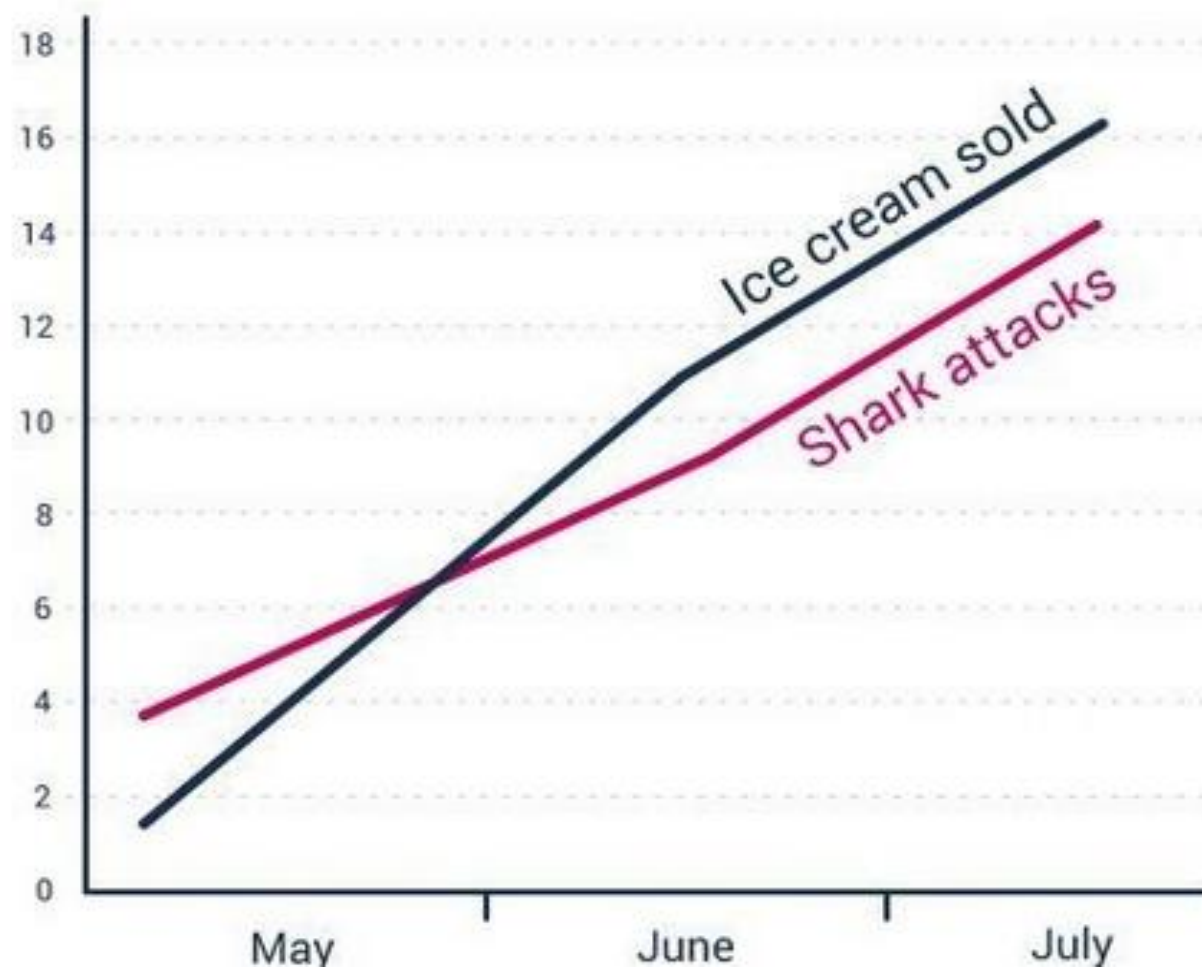
Cross word Puzzle



Simple Math



Correlation ≠
Causation



...





Next ?

- 1, 3, 5, 7, 9.....
 - 1, 1, 2, 3, 5, 8, 13....
 - 2, 3, 5, 7, 11, 13, 17, 19....
 - 14, 18, 23, 28, 34, 50....
-



Where AI has the Edge

- When Probability Rules
 - And we think fast, should think slow
 - Leap to Conclusions
 - Confirmation Bias
 - Anchoring
 - Framing
 - Monty Hall Problem
-

The Monty Hall Problem



Back to Trust

I mean, if I can't trust him not to watch episodes before I do, then how can I trust him with anything?

