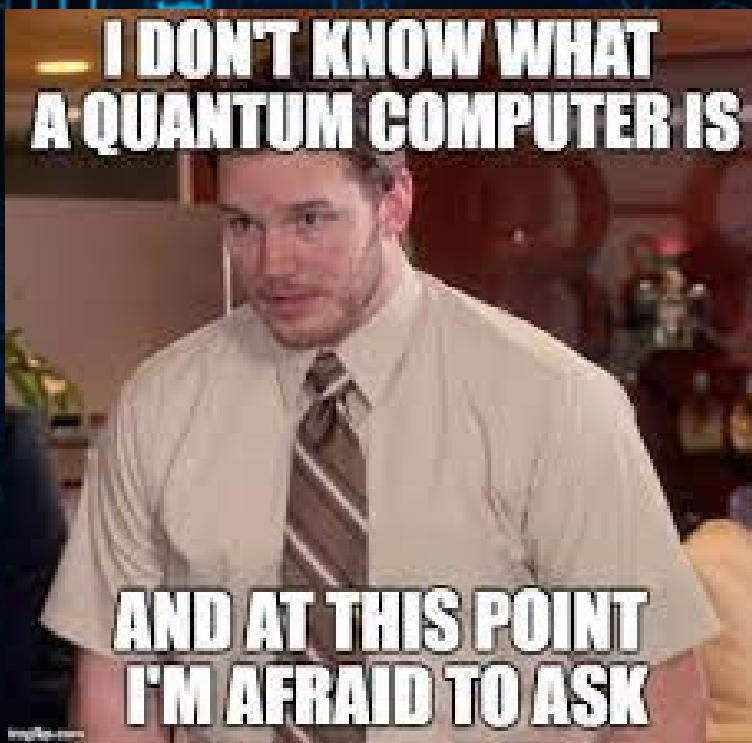


# HAVE YOU HEARD OF QUANTUM COMPUTING?

What the hell  
computers do with  
quantum physics?



# QUANTUM COMPUTING

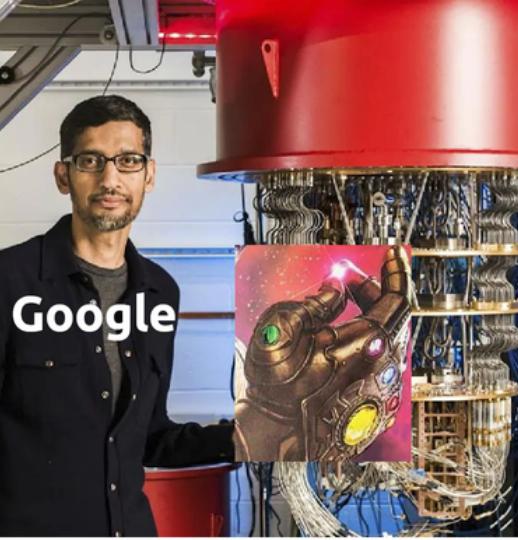
- It's a new and rapidly developing field that uses quantum-mechanical phenomena to perform computational tasks.
- quantum computers are believed to be able to solve certain problems quickly that no classical computer could solve in any feasible amount of time—a feat known as "quantum supremacy." !

# BUT HOW ?

- Quantum Computing is a computer that's so cool, it uses tiny things called "qubits" that can be in more than one state at once, unlike boring old "bits" !!!
- Because qubits can be in multiple states at once, they can solve certain problems much faster than regular computers.



Taking years to  
find a  
13 million digits  
long  
prime number  
with  
supercomputers

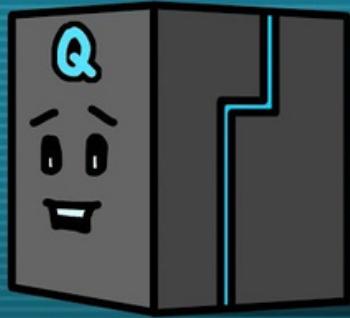
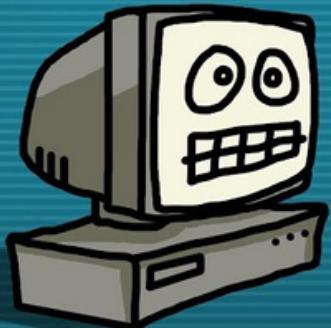


WHAT IF I TOLD YOU



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# QUANTUM SUPREMACY



# WHY QUANTUM COMPUTING

- Quantum computing can improve research and development, supply-chain optimization, and production.
- For example, you could apply quantum computing to decrease manufacturing process-related costs and shorten cycle times by optimizing elements such as path planning in complex processes.

# APPLICATIONS OF QUANTUM COMPUTING

- Artificial Intelligence & Machine Learning
- Computational Chemistry
- Drug Design & Development
- Cybersecurity & Cryptography
- Financial Modelling
- Logistics Optimisation
- Weather Forecasting

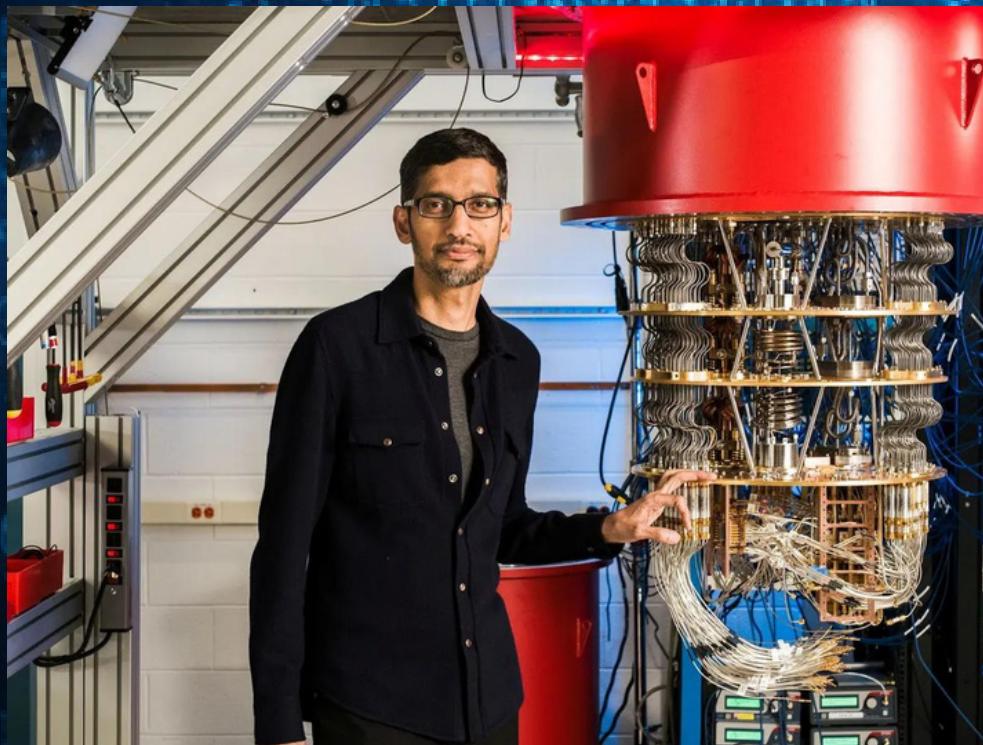
# BUT WAIT !!!

- Limitation of specialized hardware development causes an issue of scalability.



- Also they are very expensive

Fortunately it's an active area of research and things will improve in future 😊



**GO EXPLORE MORE!!!**

Sundar Pichai is waiting for you :)

Thank  
You!  
Keep  
coding