

How Computers Think

Intro to AI

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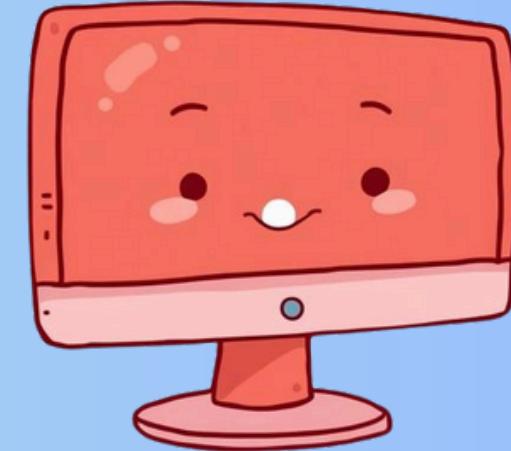
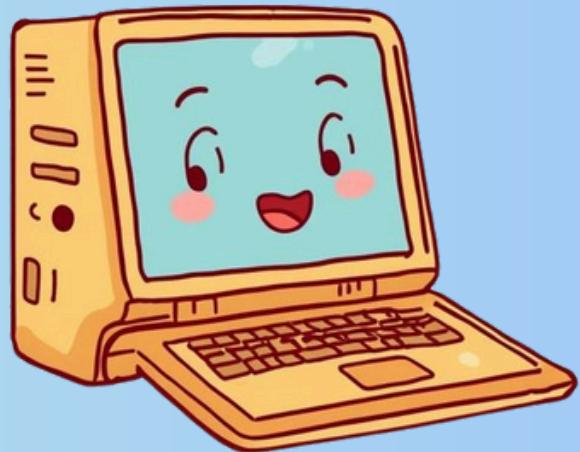
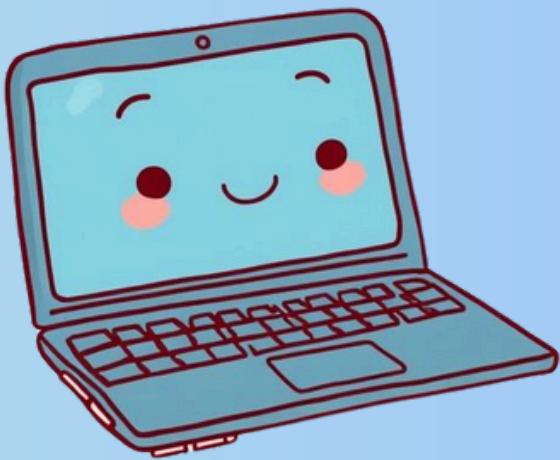
Who am I?

- Software Engineer
- Works with AI + coding
- Builds tools that help people



What is a computer?

- A computer is a machine that follows instructions carefully.
- It can only do what we tell it to do... *or can it?*
- What if computers could **learn** on their own, just like you learn new things at school?



What is AI?



AI = Artificial Intelligence

Computers that can learn **patterns**

Examples You Already Know!

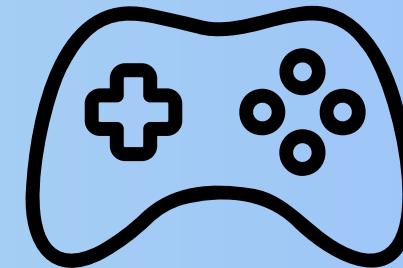
Siri or Alexa



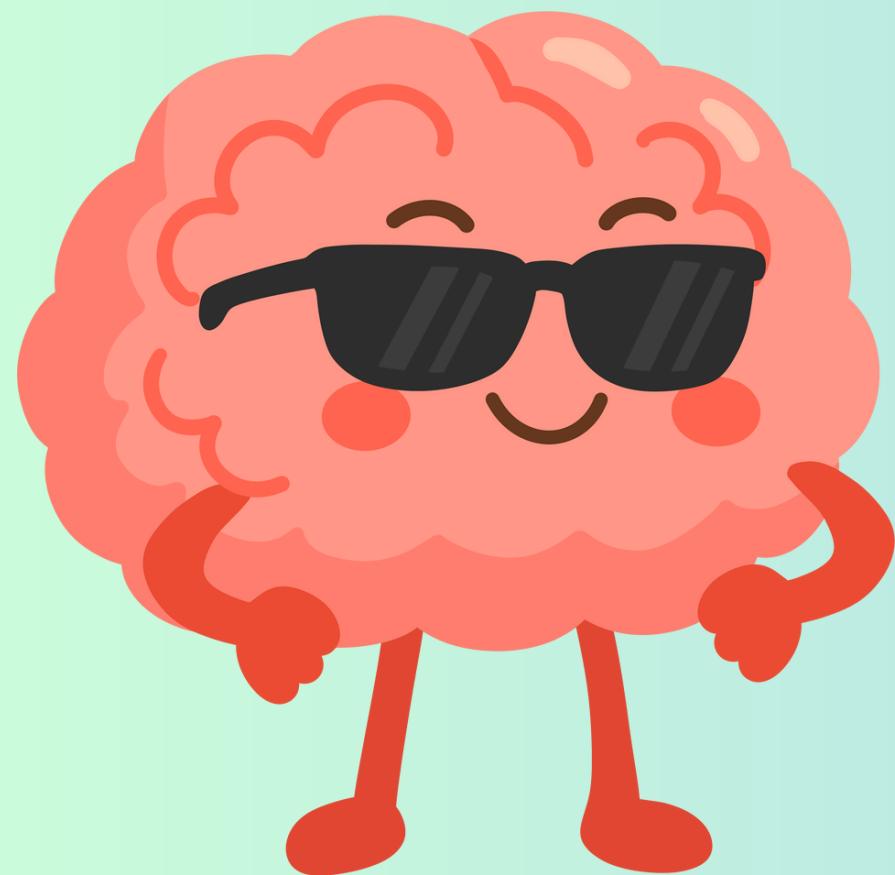
YouTube



Video Games



Can Computers Think Like Humans?



Learning

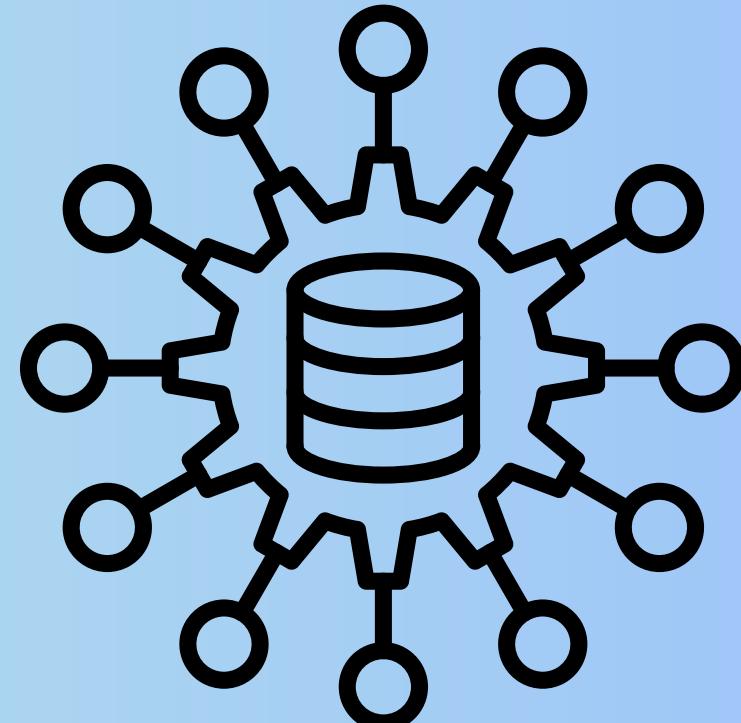
How You Learn

- You learn from practice
- You learn from examples
- You make mistakes



How Computers Learn

- See lots of examples
- Look for patterns
- Make guesses



Guess What the AI Sees!





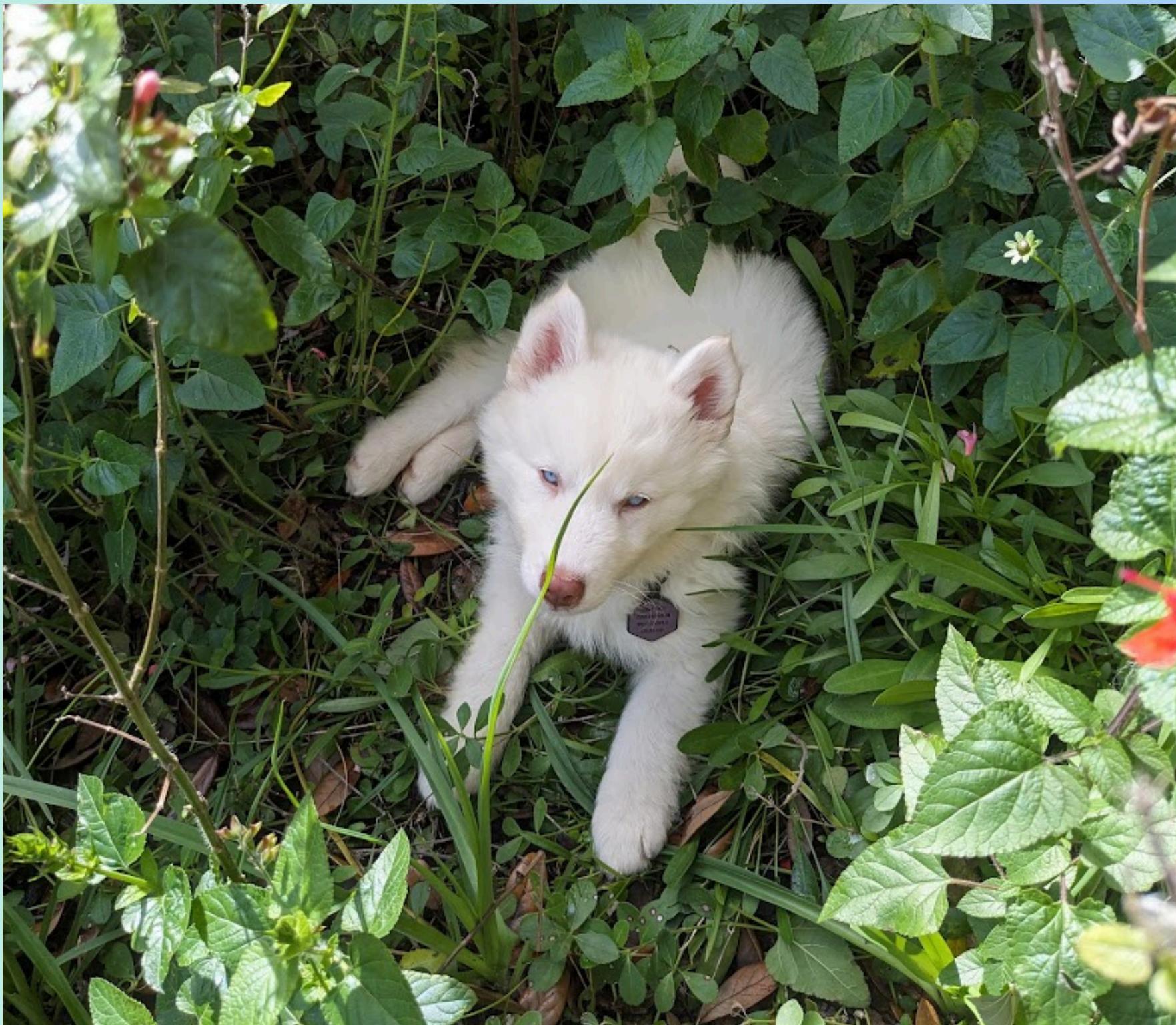
How AI Learns

A computer doesn't know what a cat or a dog is. *It doesn't have a brain.*

But if we show it **thousands** of photos, the computer begins to notice patterns.

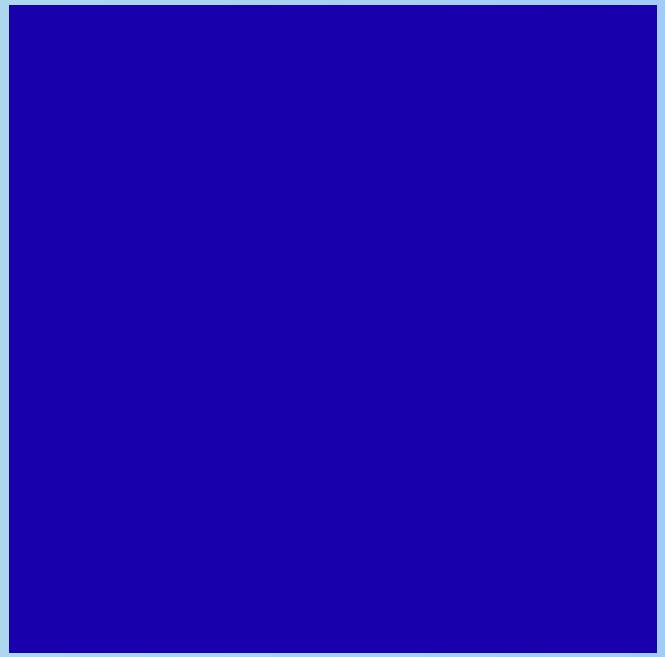
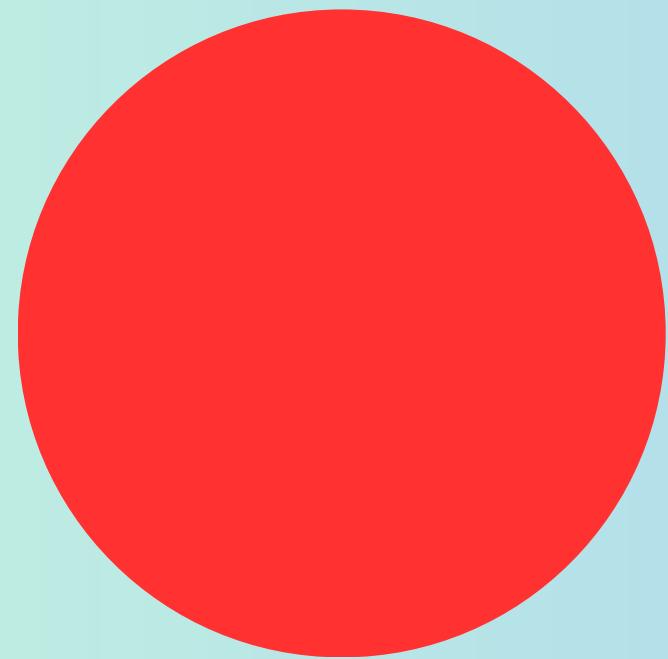
This is *training* the AI



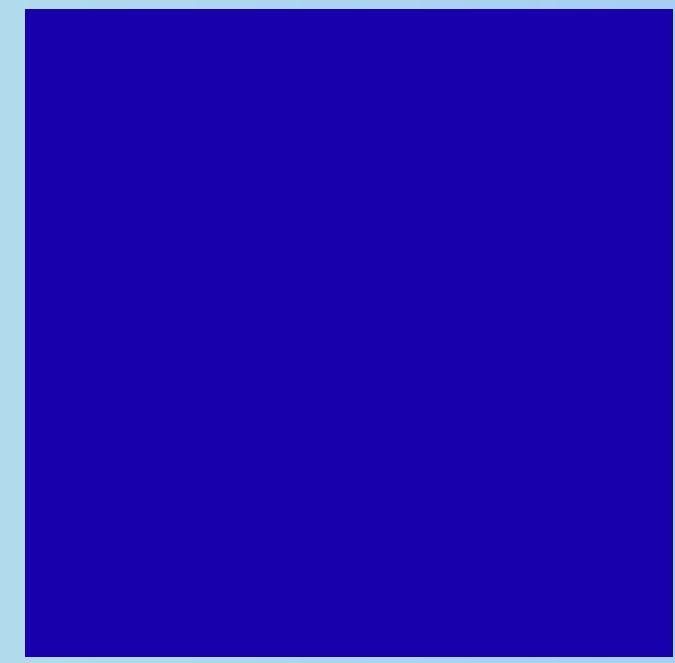
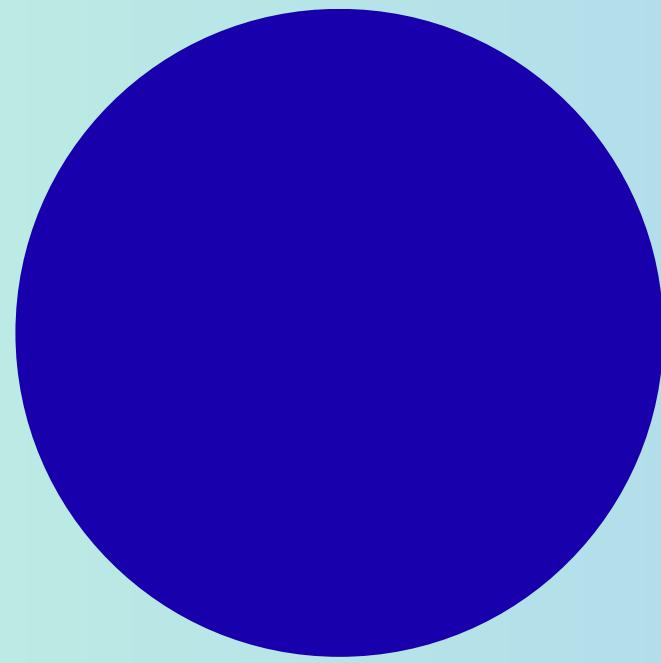
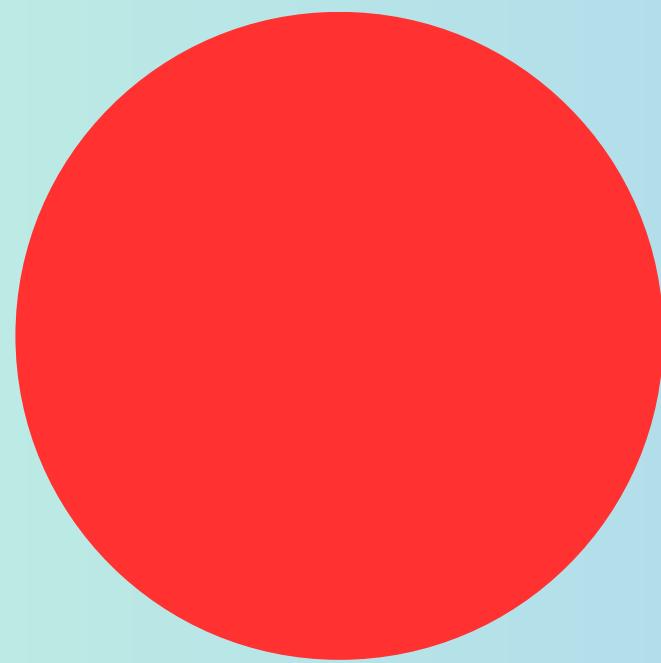


Be The AI!

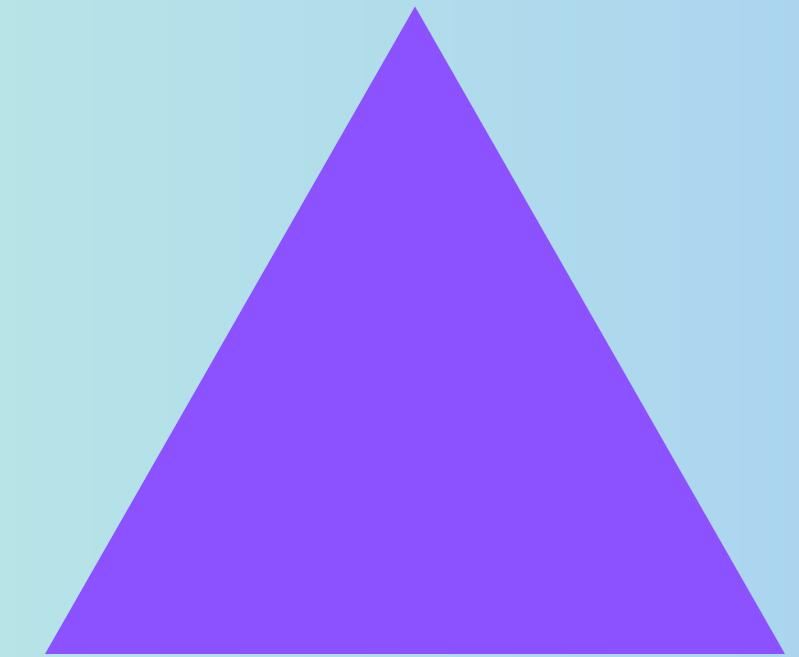
Round 1



Round 2



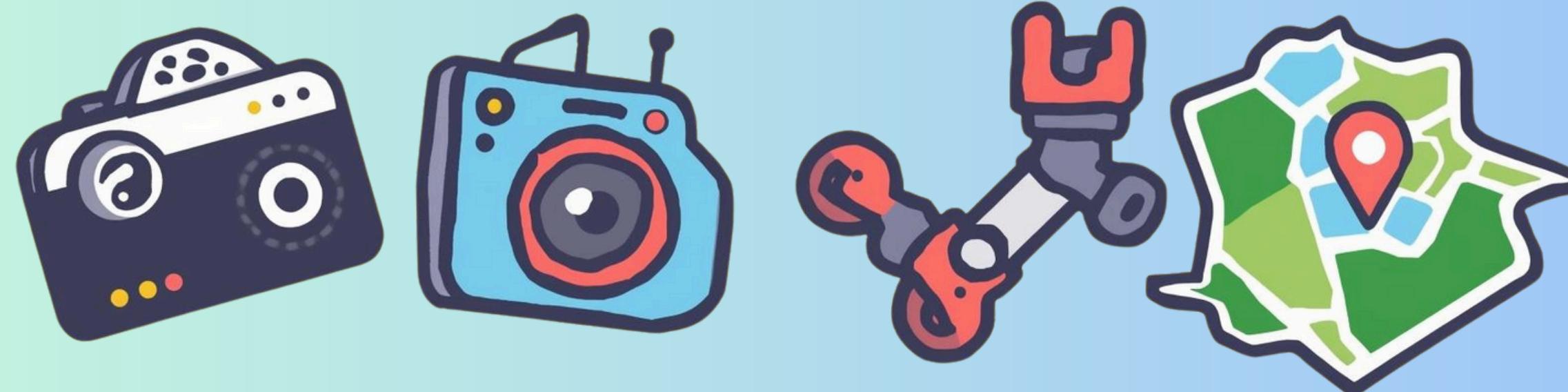
Round 3



**Do computers actually
think like us?**

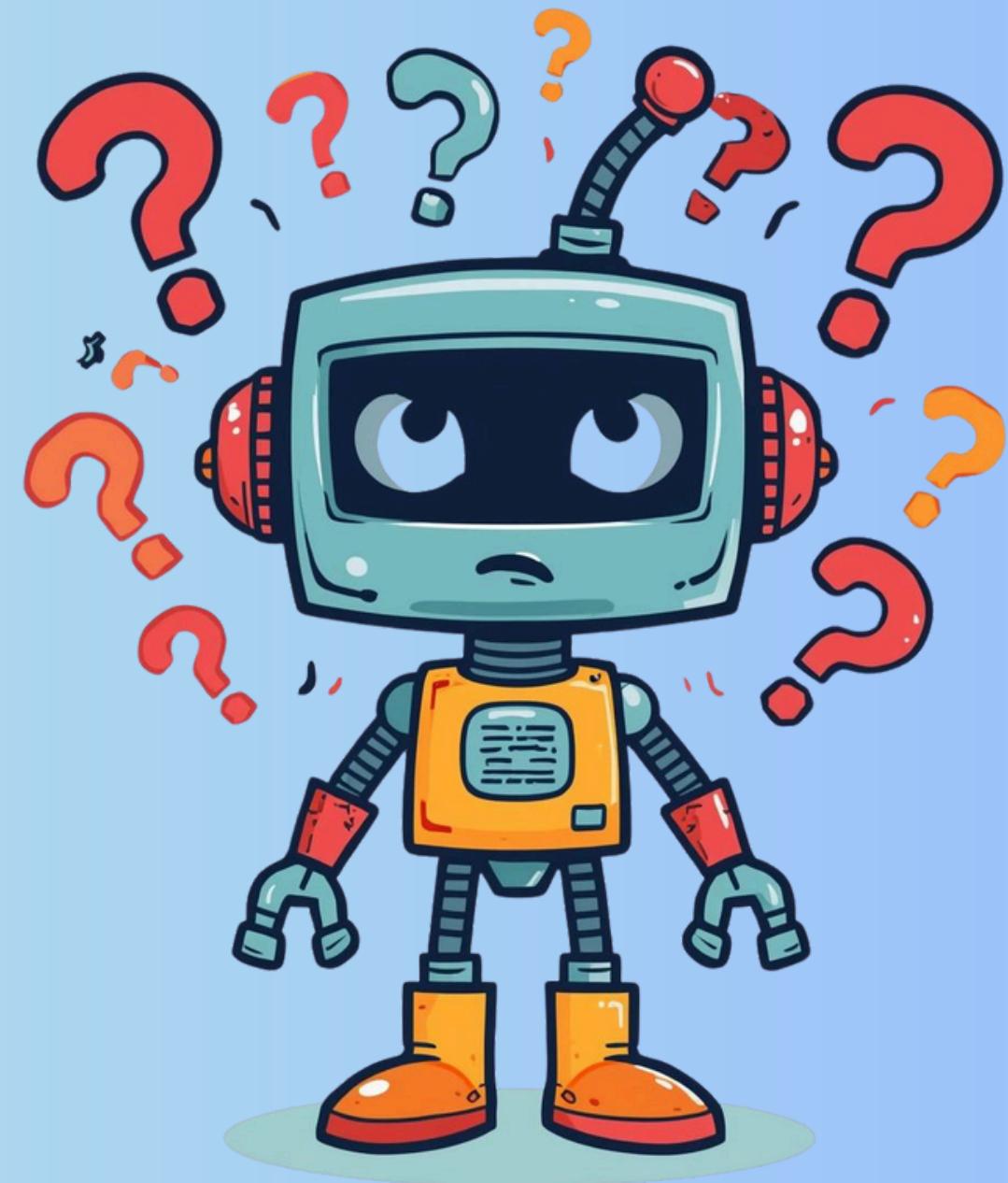
What AI Is Good At

- Patterns
- Images
- Games
- Predictions



Why AI Makes Mistakes

- Not enough examples
- Weird examples
- Bad data



You Can Be an AI Teacher!

- Learn to code
- Be curious
- Build cool stuff

