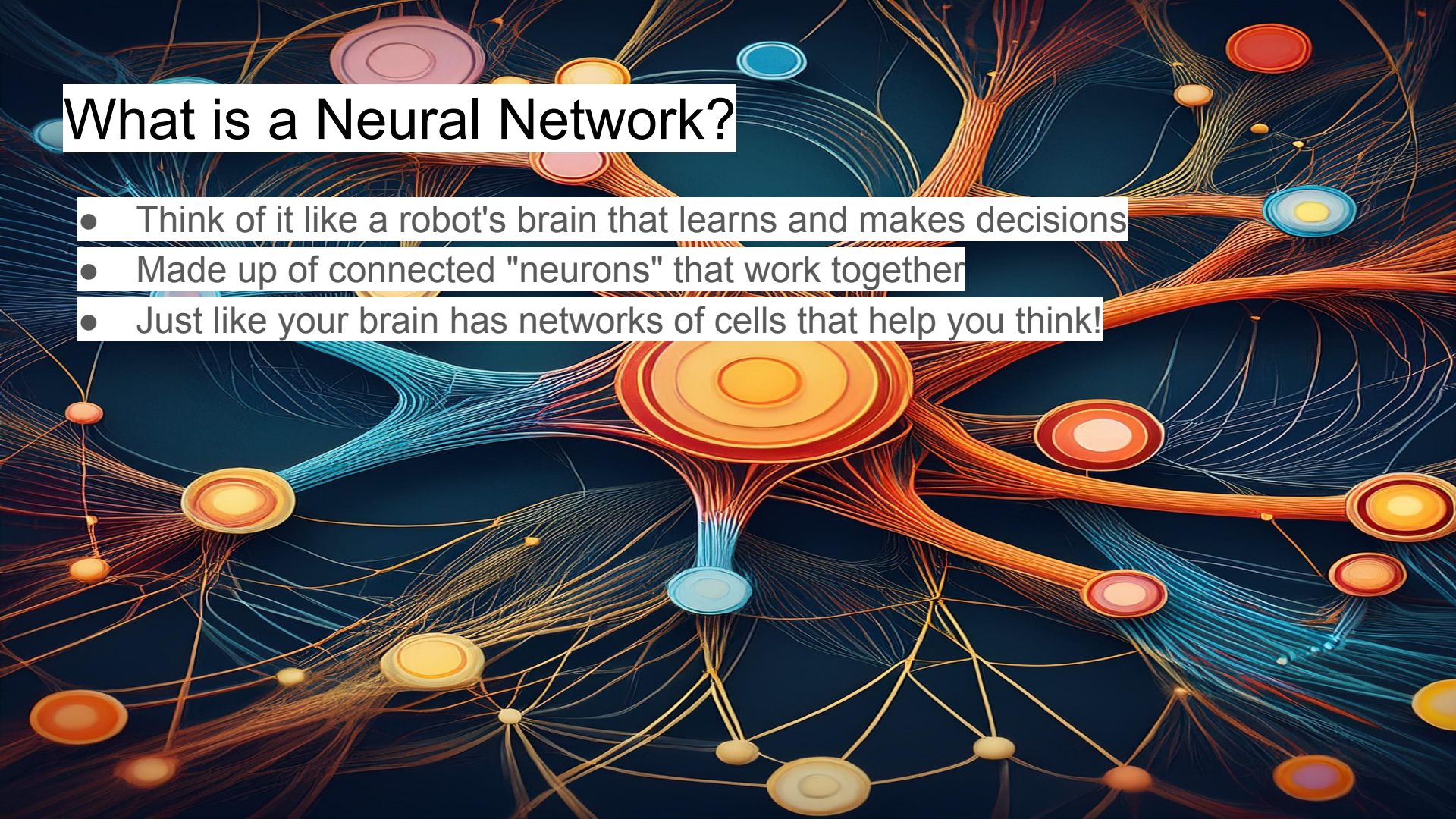
Understanding Neural Networks: The Robot's Brain

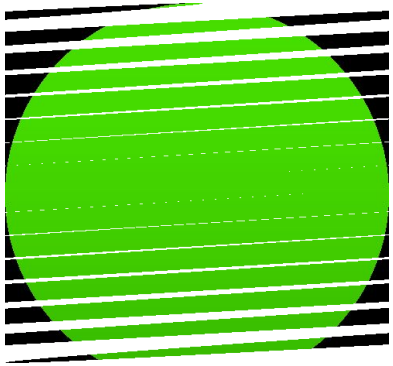




What is a Neural Network?

- Think of it like a robot's brain that learns and makes decisions
- Made up of connected "neurons" that work together
- Just like your brain has networks of cells that help you think!

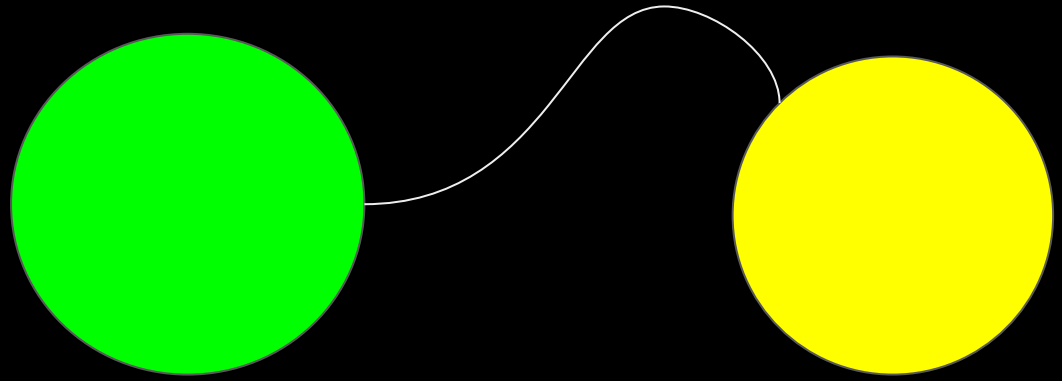
Input Neurons - The Sensors



- These are like the robot's eyes, ears, and touch sensors
- They're shown in GREEN
- They collect information from the outside world
- Example: When a robot "sees" a ball, input neurons receive this information

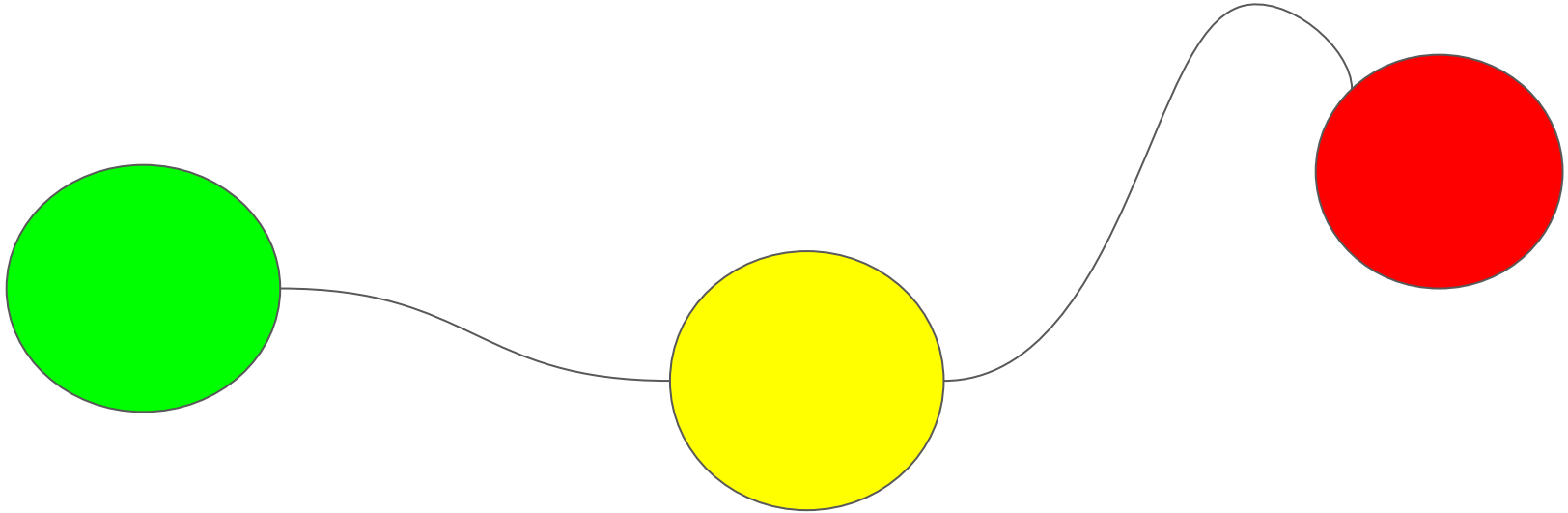
Hidden Neurons - The Thinkers

- These are shown in YELLOW
- They process all the information from the input neurons
- Think of them as the robot's "thinking cells"
- They help the robot understand what it's seeing or sensing



Output Neurons - The Decision Makers

- These are shown in RED
- They tell the robot what to do
- Example: "Pick up the ball" or "Move forward"
- They're like the robot's way of responding to what it learned



Let's Explore!

- How do these neurons work together?
- What happens when information flows through them?
- Can you think of how robots use these networks to learn?

