

Connecting your robot to the real world

G.A.M.E.S. camp

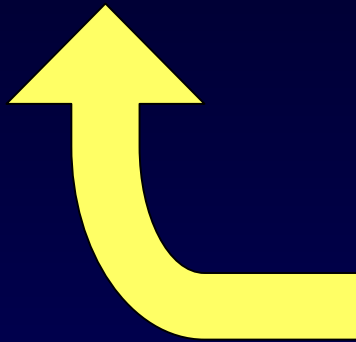
Aug 6, 2002

Paul Grayson

Your robot and the world



Your robot and the world



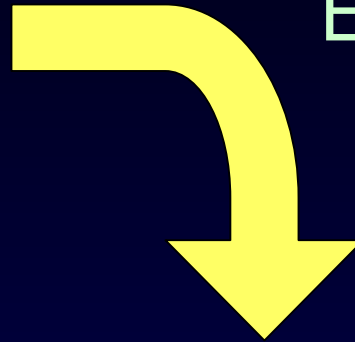
Sensors



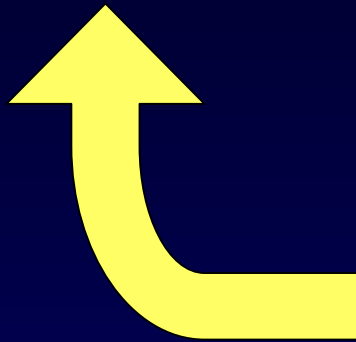
Your robot and the world



Effectors

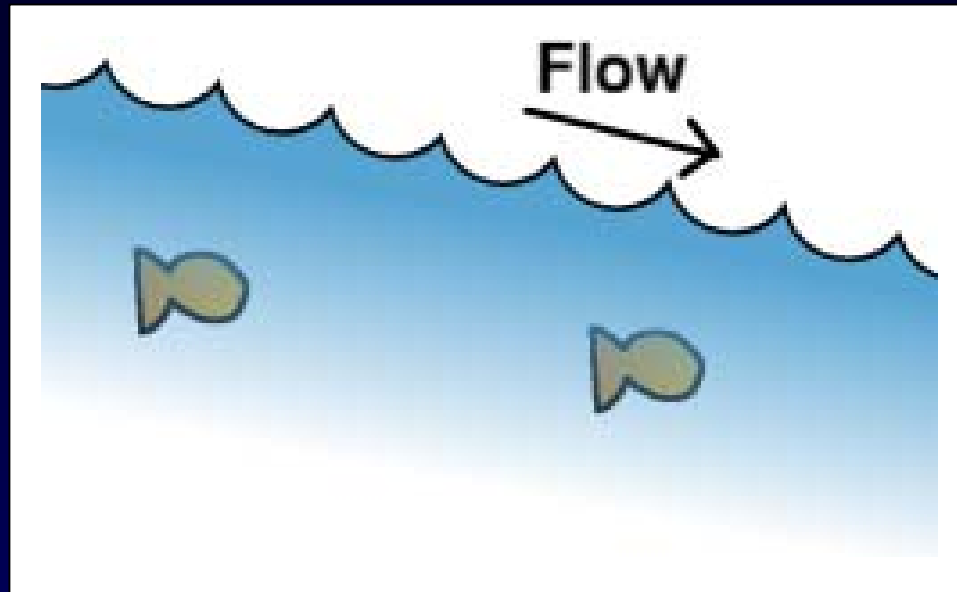


Sensors



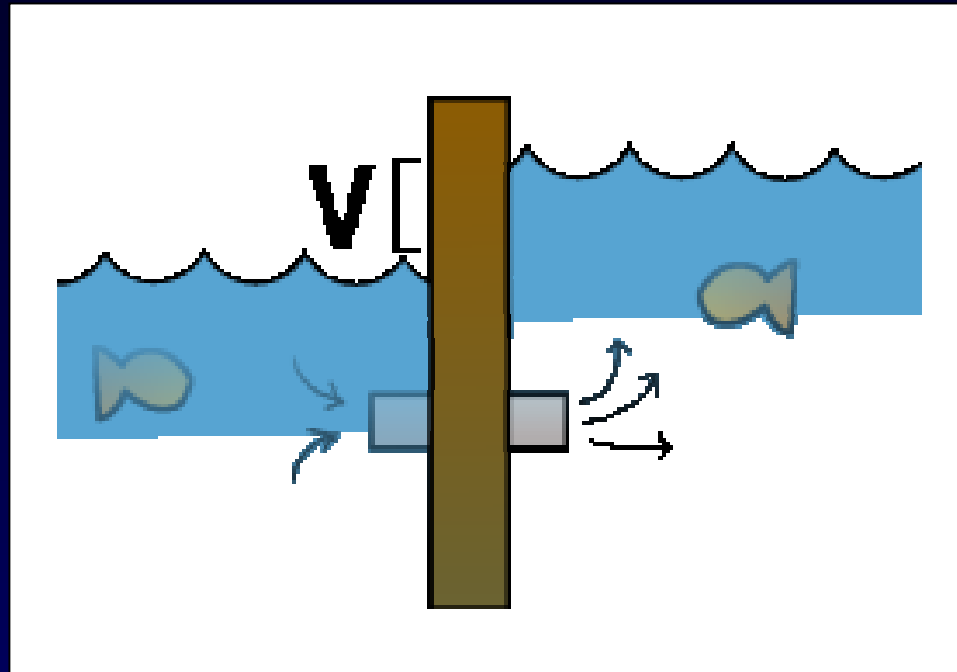
Building electronics

- Electricity is like water!



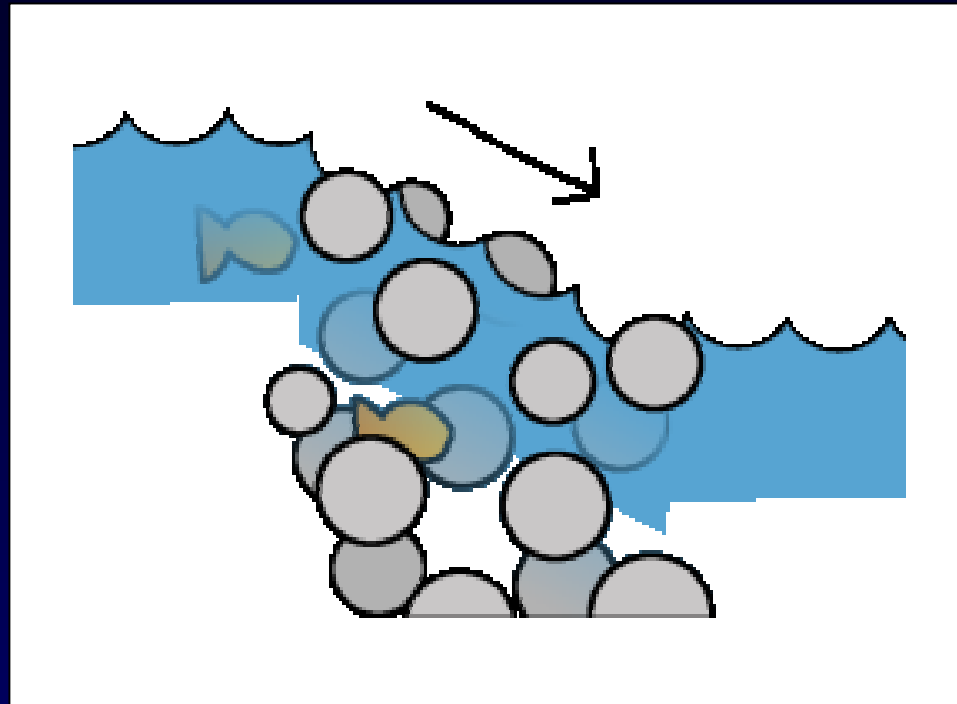
Building electronics

- A battery is a pump for electricity



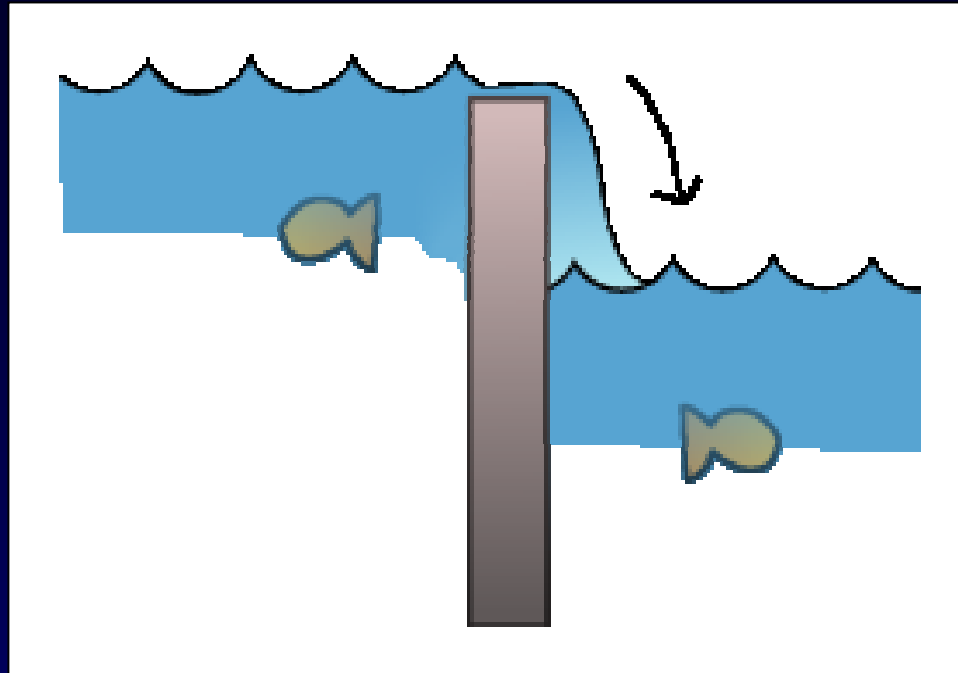
Building electronics

- A resistor slows down electricity



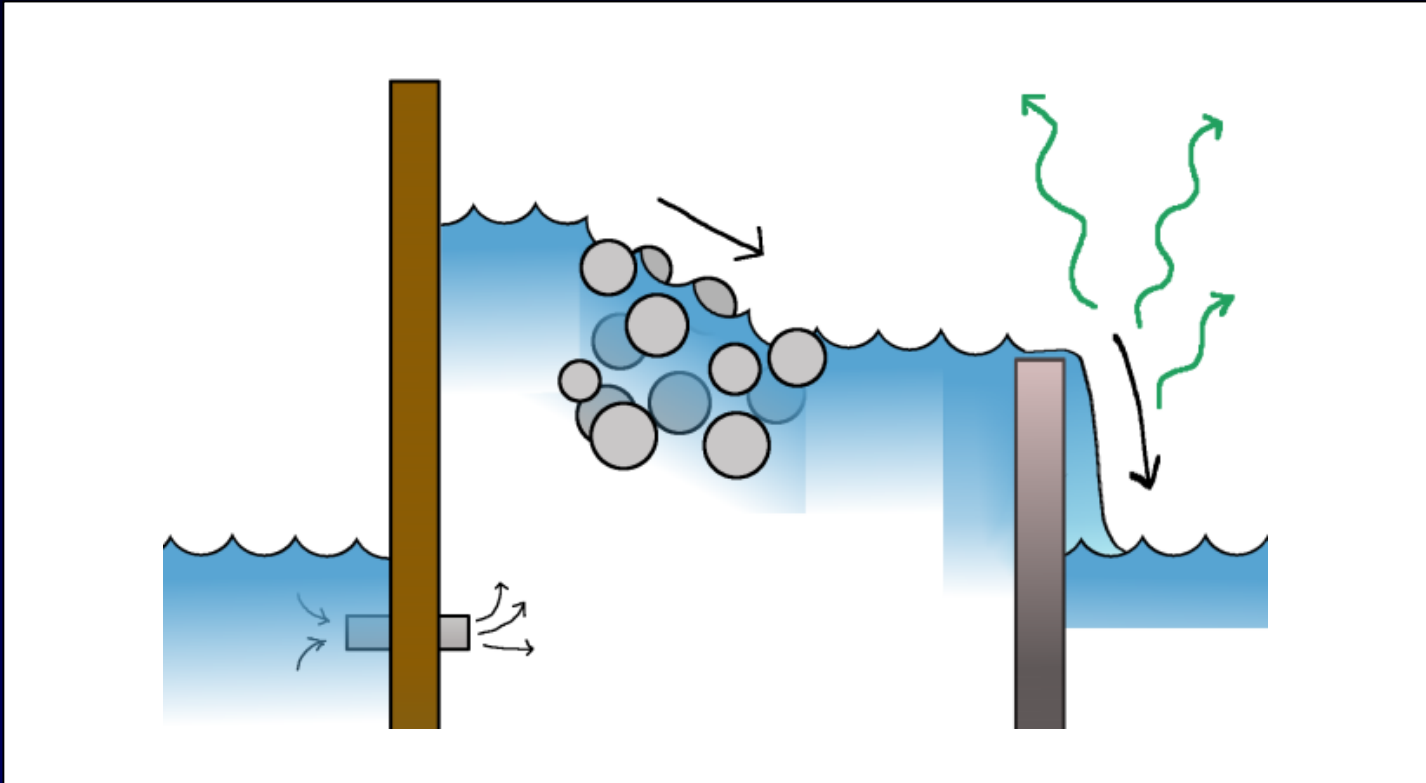
Building electronics

- A diode is a one-way waterfall



Building electronics

- A complete circuit



Look at some real robots



How do the pieces work?

- Motors

How do the pieces work?

- Light sensors

How do the pieces work?

- Distance sensors

Take apart some devices