

# More Circuit Components

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What Circuit Components have we seen so far?

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# Potentiometer

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A resistor with an adjustable resistance



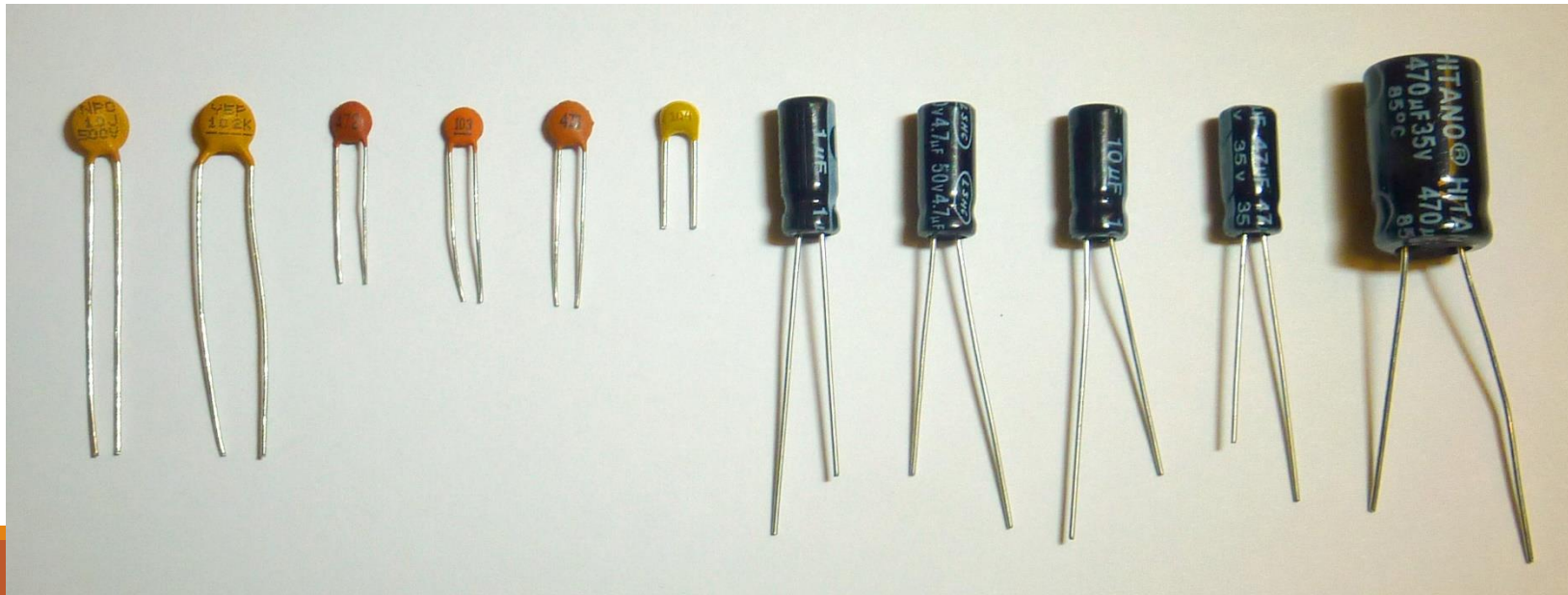
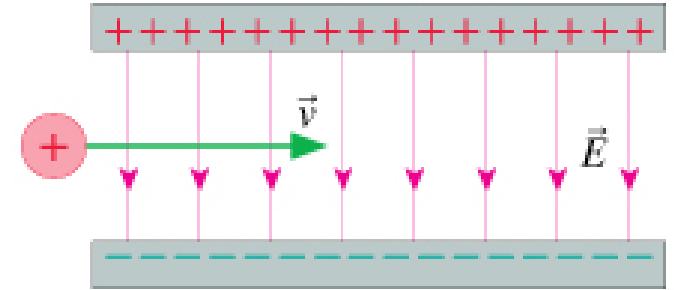
# Capacitor

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Stores charge

Acts similar to a battery, except it does not have its own energy source

Has an effect on the “resistance” of a circuit



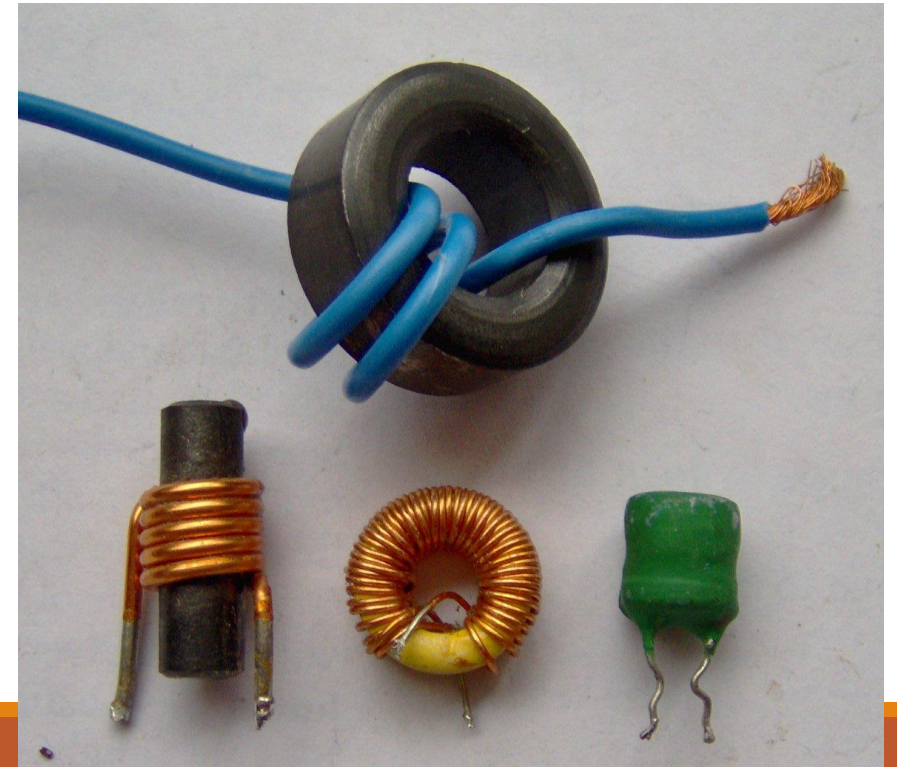
# Inductor

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Think of as opposite to a capacitor

Also affects the “resistance” of electric flow

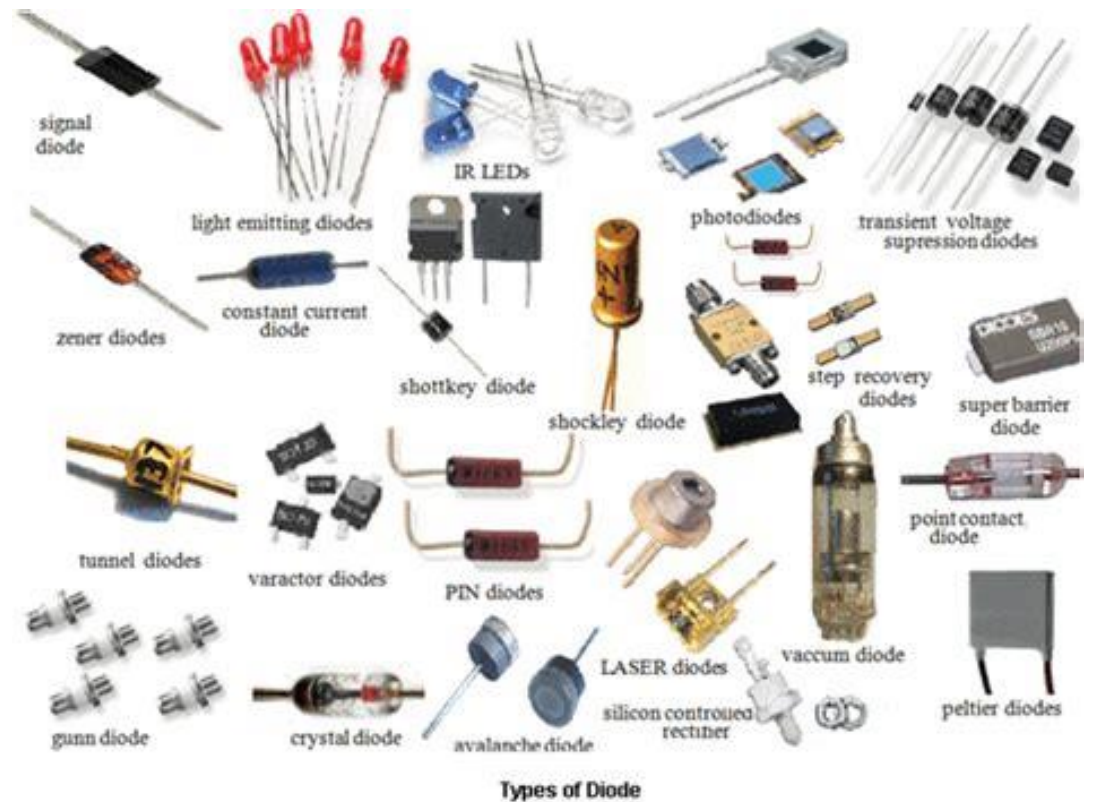
Resistors, capacitors and inductors are the main three circuit components



# Diode

Only allows current to flow in one direction

~ to a valve in a water system



Types of Diode



# Motor

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Converts electricity to mechanical movement



# Transducers

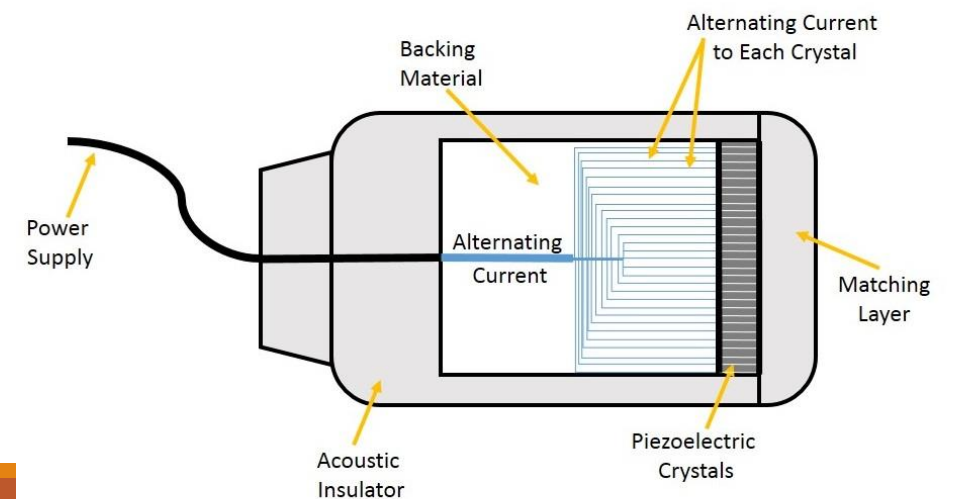
Any device that transforms energy from one form to another

Examples:

- Sound to electricity (Sonar)
- Magnetic field to electricity (Hall Effect)
- Radio waves to Electricity (Antenna)



## Transducer Basics





# Transistor

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Semiconductor component which makes computers possible

Arguably the most significant modern-day human invention

We're not worried about understanding how they work in this class, just knowing that they exist and are important in computing

