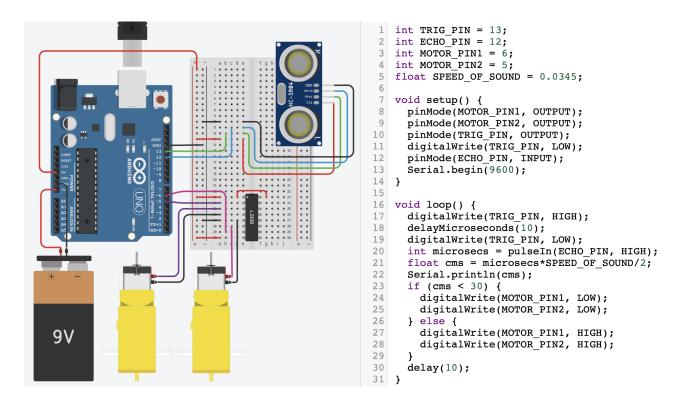
Template Project

Electronics



Cardboard templates

- 1. Cut each paper template along the bounding rectangle of each part (body & two wheels)
- 2. Tape each paper template to cardboard and cut cardboard to bounding rectangle
 - (Attach body template so that long end lies along the grain of the cardboard)
- 3. Cut along the solid lines of each template through both paper and cardboard
 - (Make cuts against the grain first, then make cuts with the grain second)
- 4. Fold body:
 - score along the broken lines with a ballpoint pen
 - remove paper templates and excess material
 - fold along the broken lines (fold dashed lines toward you and dotted lines away)
 - tuck tabs into the slots at the front and back

2 Template Project

Wiring a motor

- 1. Prepare two jumper wires, for each:
 - cut off one end
 - strip off 1-2 cm of outer plastic
 - twist wire end
- 2. Attach wires to motor
 - hook wires onto motor leads
 - twist wires to form strong mechanical and electrical connection
 - apply hot glue to form strong connection and cover exposed metal
- 3. Check electrical connection with multi-meter

Wiring a battery holder

- 1. Prepare two **female** jumper wires (recommended to prevent accidental shortage), for each:
 - cut off one end
 - strip off 1-2 cm of outer plastic
 - twist wire end
- 2. Prepare battery holder wires, for each:
 - strip off 1-2 cm of outer plastic
 - twist wire end
- 3. Attach wires to battery holder
 - hook wires together
 - twist wires to form strong mechanical and electrical connection
 - apply hot glue to form strong connection and cover exposed metal
- 4. Check electrical connection with multi-meter