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# ARDUINO 1 EXTRA PROJECTS

San Juan EDC

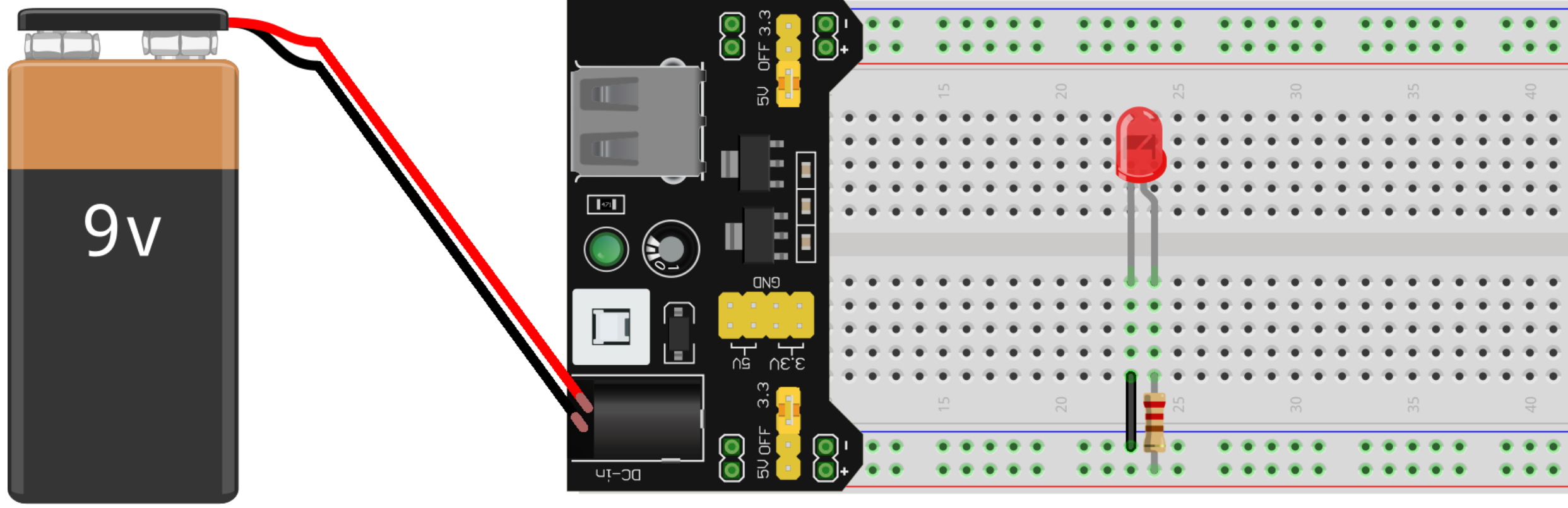
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# EXTRA PROJECT 1 EXTERNAL POWER SUPPLY

- No code
- Build the Circuit
- Click the checkmark then the arrow



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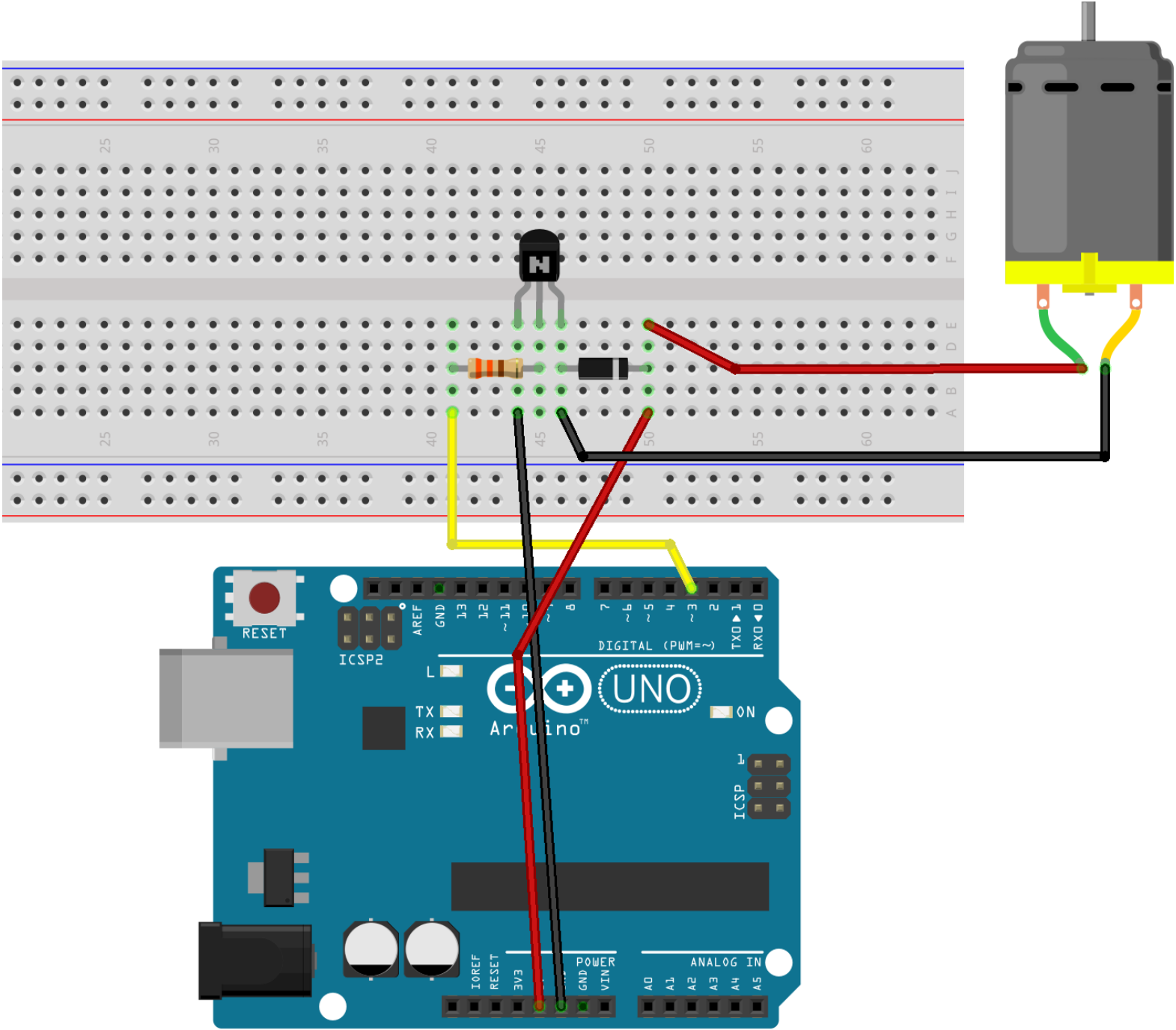
# EXTRA PROJECT 2.0 3-6V MOTOR

- Open the folder called extra2.0
  - Open the code
  - Build the Circuit
  - Click the checkmark then the arrow
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- Project from
    - <https://learn.adafruit.com/adafruit-arduino-lesson-13-dc-motors?view=all>
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# MATERIALS

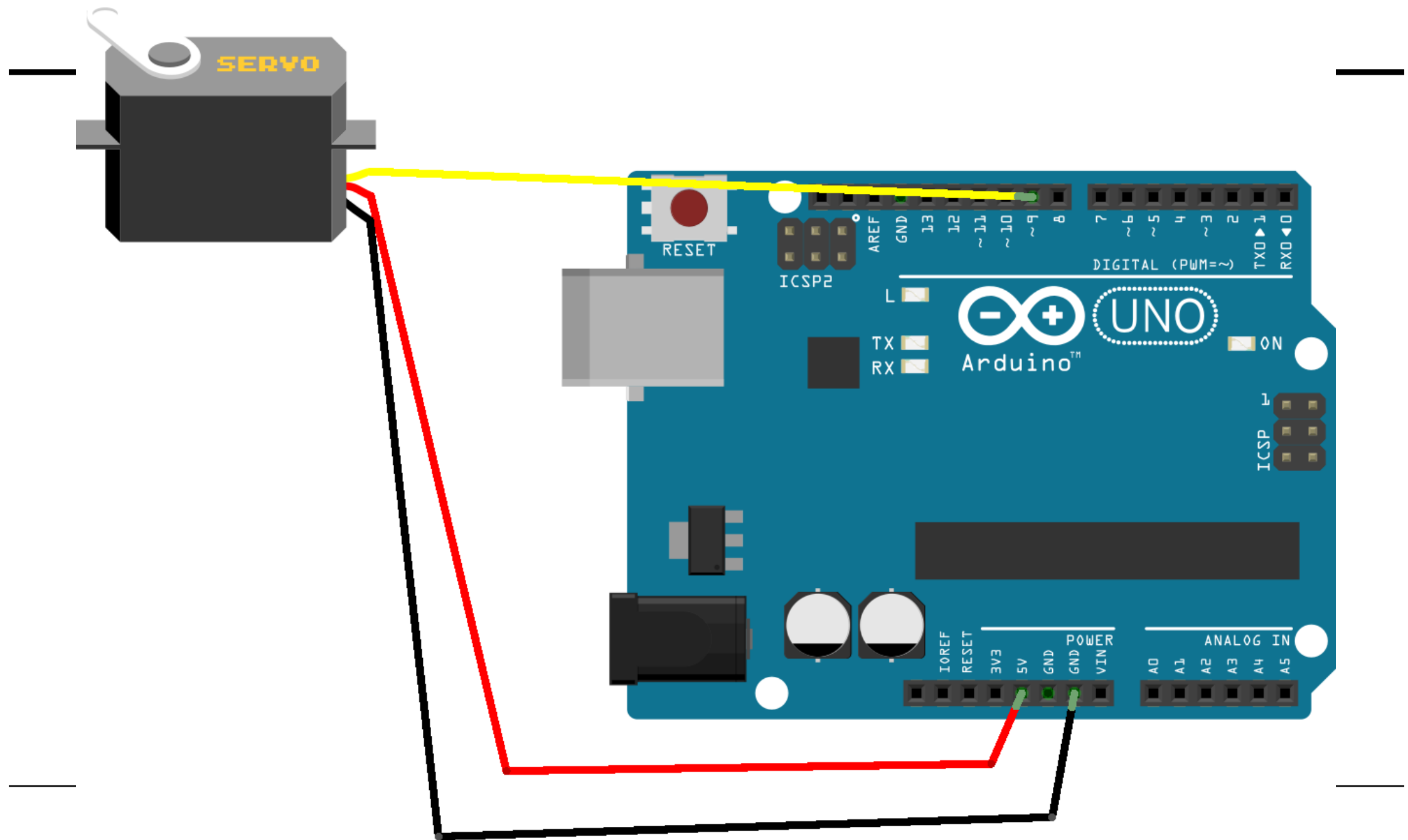
- 330 Ohm resistor
- 3 Jumper cables
- Diode Rectifier
- NPN Transistor



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# EXTRA PROJECT 3.0

- Open the folder called extra3.0
  - Open the code
  - Build the Circuit
  - Click the checkmark then the arrow
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- Project from
    - <https://docs.arduino.cc/tutorials/generic/basic-servo-control/>
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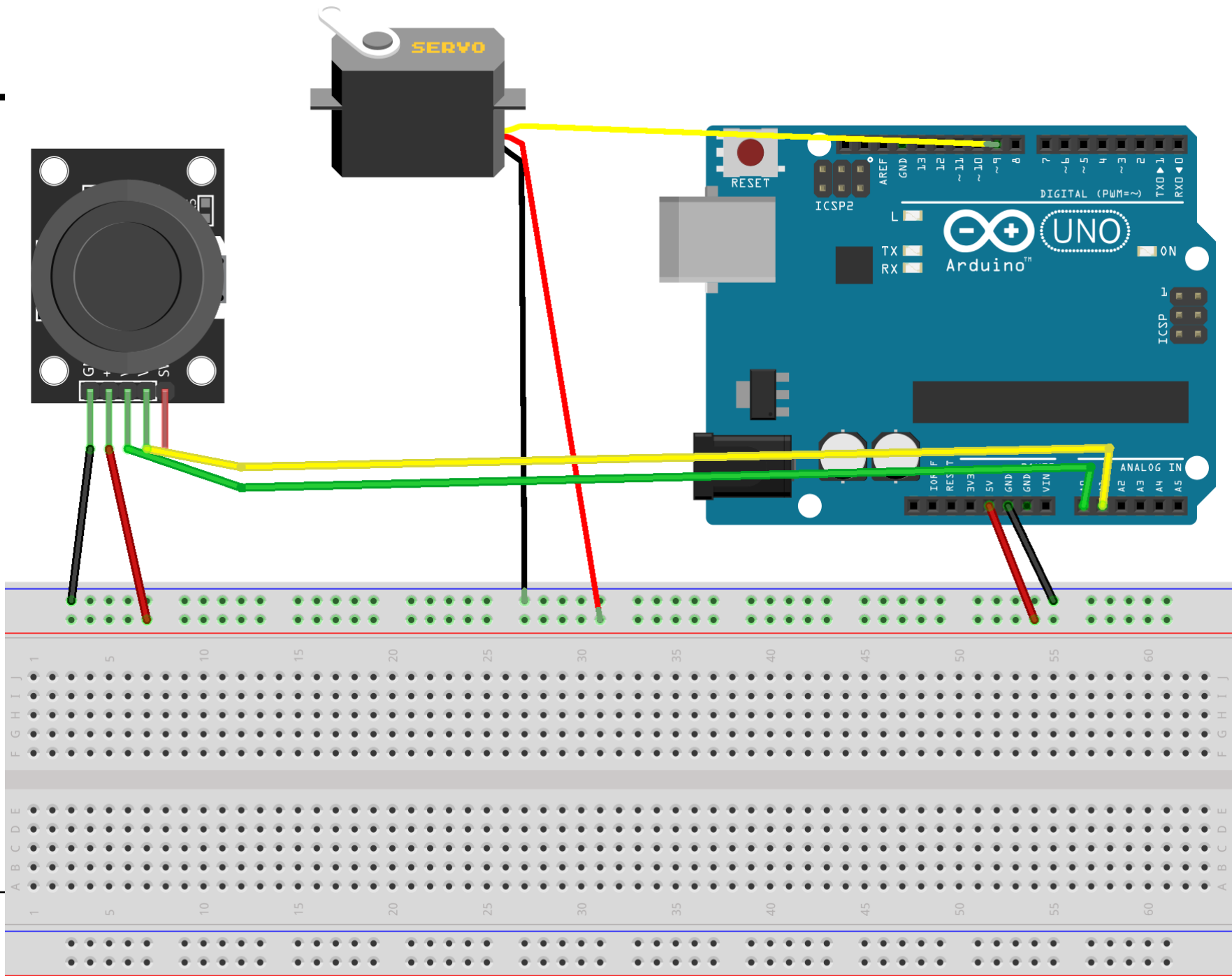




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# EXTRA PROJECT 4.0

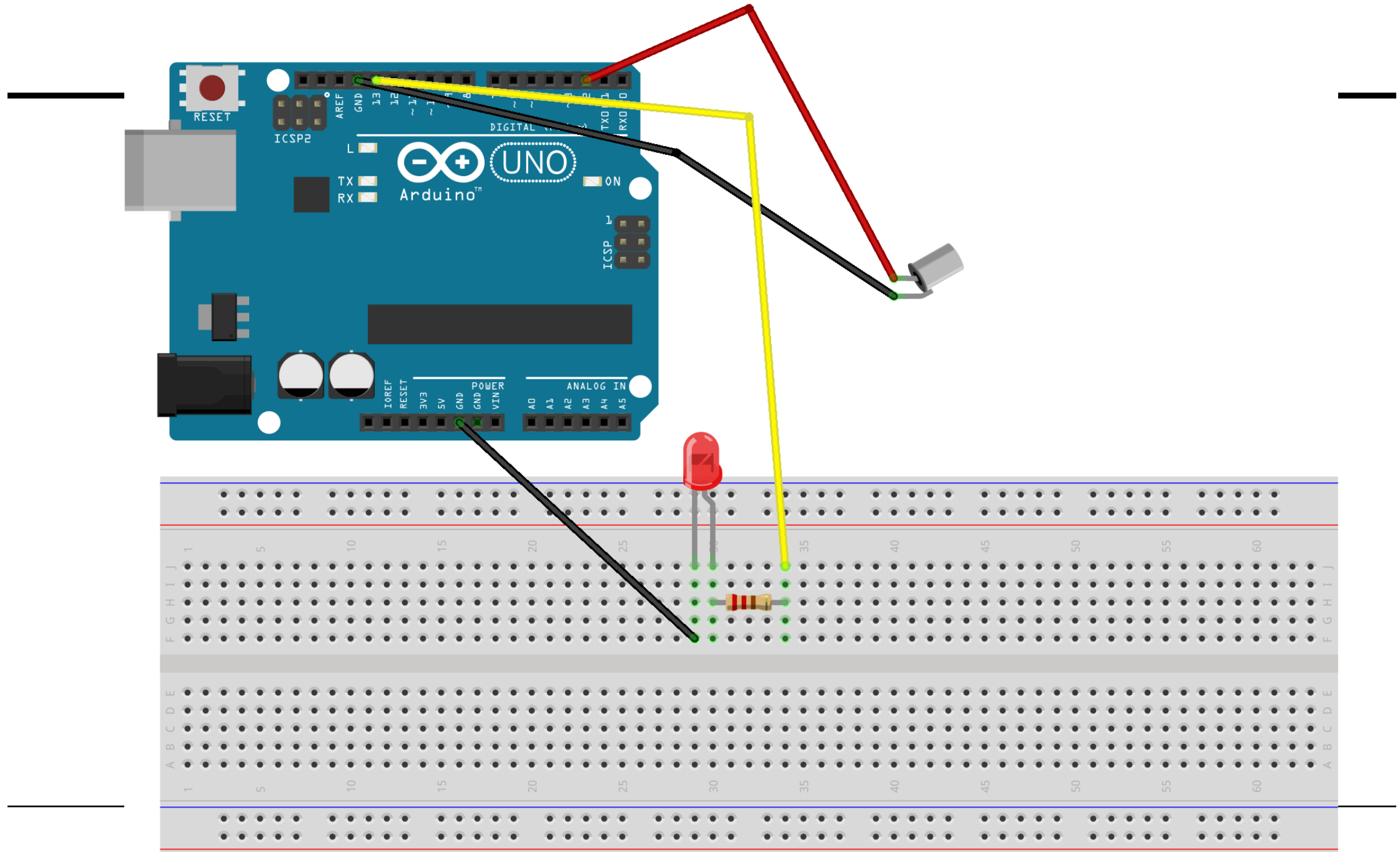
- Open the folder called extra4.0
- Open the code
- Build the Circuit
- Click the checkmark then the arrow



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# EXTRA PROJECT 5.0

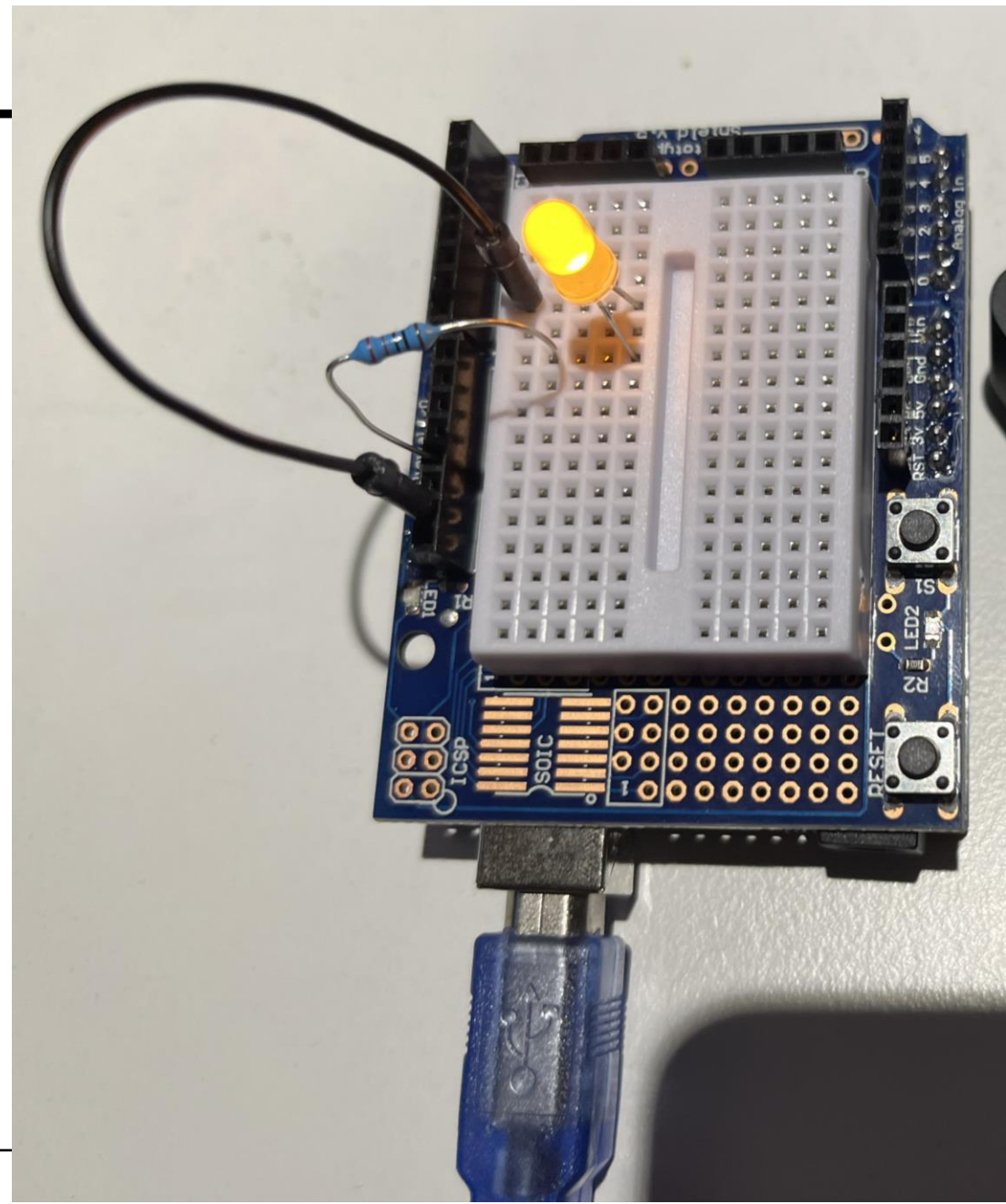
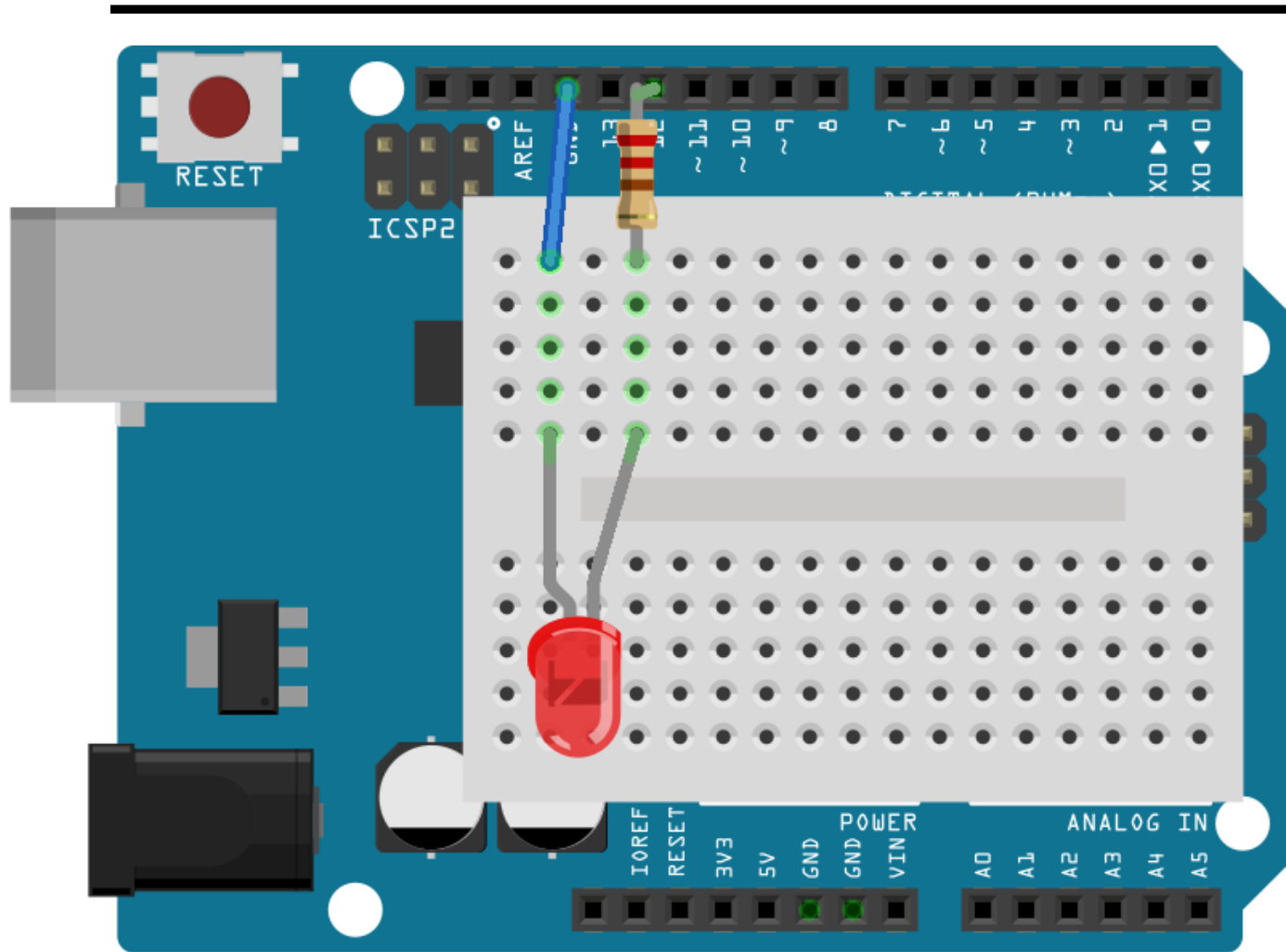
- Open the folder called extra5.0
  - Open the code
  - Build the Circuit
    - 220 Ohm Resistor
  - Click the checkmark then the arrow
  - Project from
    - <https://lastminuteengineers.com/ball-tilt-switch-sensor-arduino-tutorial/>
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# EXTRA PROJECT 6.0

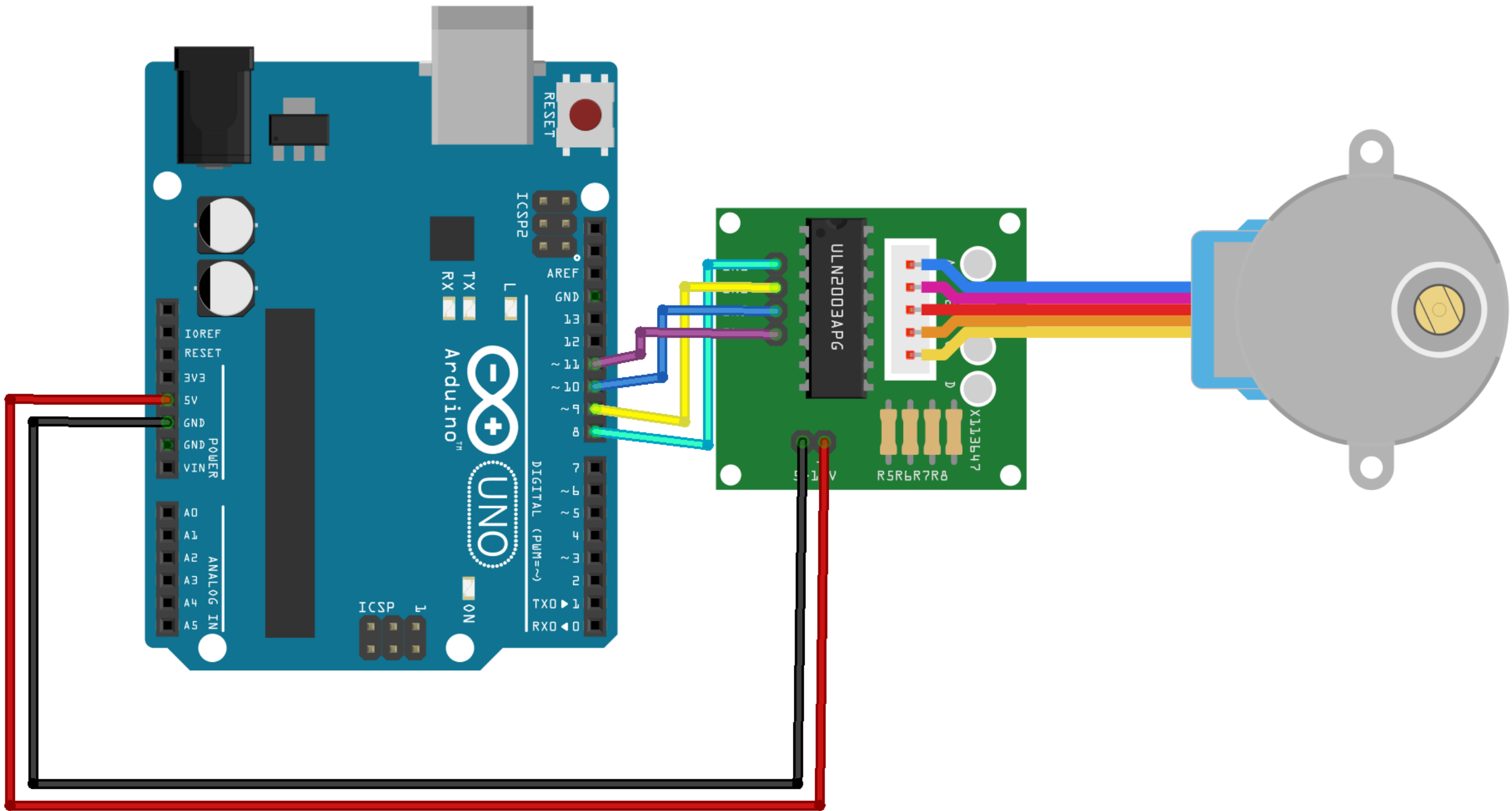
- Open the folder called extra5.0
- Open the code
- Build the Circuit Similar to the 1st project
  - 220 Ohm Resistor
- You can use the code from project 1.5
- Click the checkmark then the arrow



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# EXTRA PROJECT 7.0

- Open the folder called extra7.0
  - Open the code
  - Build the Circuit
  - Click the checkmark then the arrow
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- Project from
    - <https://lastminuteengineers.com/28byj48-stepper-motor-arduino-tutorial/>
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# EXTRA PROJECT 8.0

- Open the folder called extra8.0 and extra8.5
  - Open the code
  - Build the Circuit
  - Click the checkmark then the arrow
  - Project from
    - <https://www.youtube.com/watch?v=pBdjMayFK5Y>
    - <https://docs.arduino.cc/tutorials/communication/guide-to-shift-out/#shftout13>
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