

# Arduino Bootcamp : Learning Through Projects

Pan Tilt Assembly Control - Final Circuit - Part 4

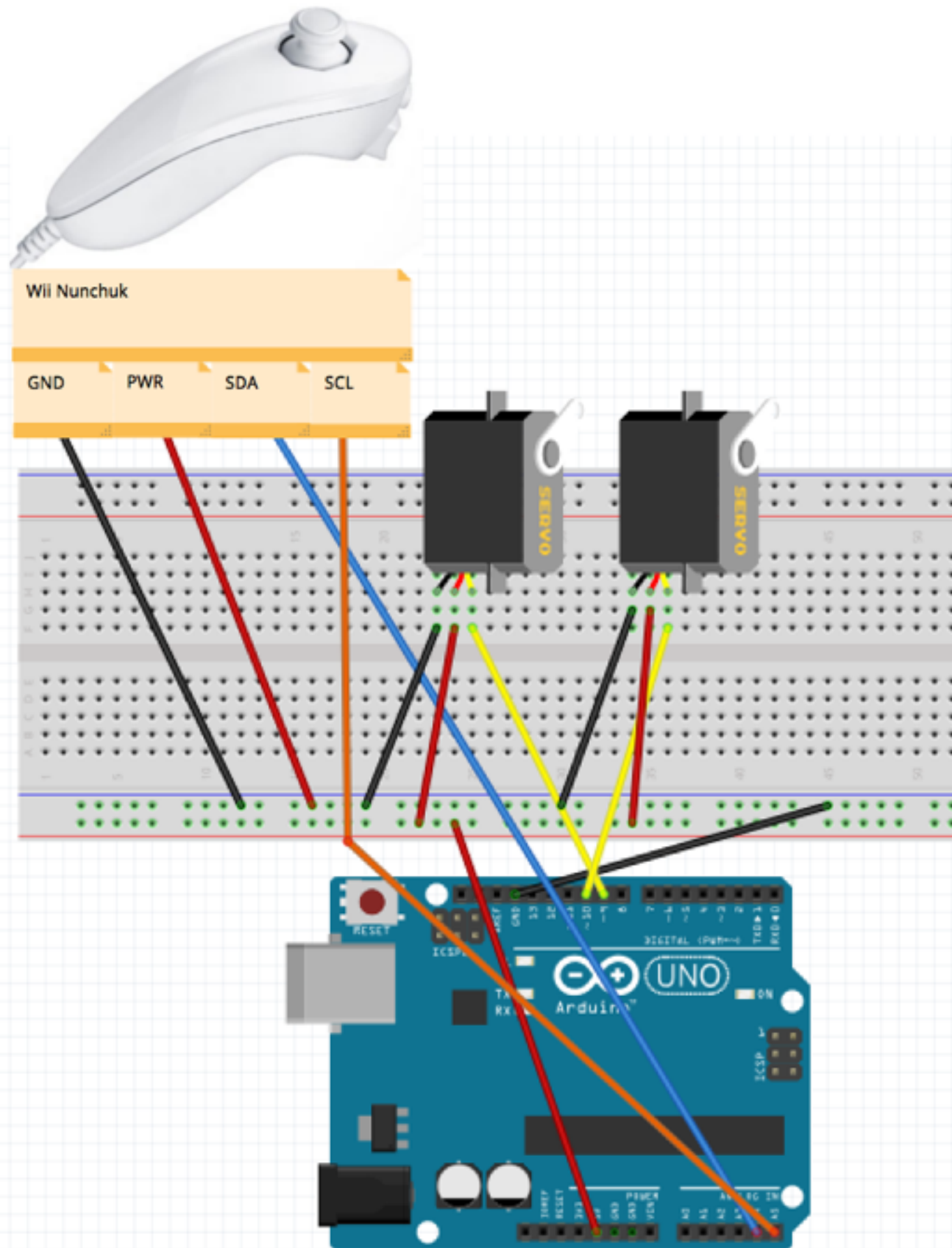
# Project Objectives

- In this project you will learn:
  - How all the components can be combined to create a pan-tilt assembly
    - Servos
    - Wii Nunchuk for control
    - Pan-Tilt Swivel Assembly
  - How to control the assembly with positional readings taken from the Nunchuk

# Parts

- Arduino Uno
- USB A-B cable
- Breadboard
- 2 Mini servos
- Wii Nunchuk
- Arduino nunchuk adapter
- Pan Tilt Swivel Assembly
- Connecting wires

# Circuit Diagram



## Nunchuk Adapter Pin

## Arduino Pin

GND

GND

PWR

3.3 V

SDA (Serial Data)

A4

SCL (Serial Clock)

A5

## Servo 1 Pins

## Arduino Pin

GND

GND

PWR

5V

Signal

9

## Servo 2 Pins

## Arduino Pin

GND

GND

PWR

5V

Signal

10

# Summary

- In this project you learnt:
  - How to create and control a pan-tilt assembly with servos and a Wii nunchuk