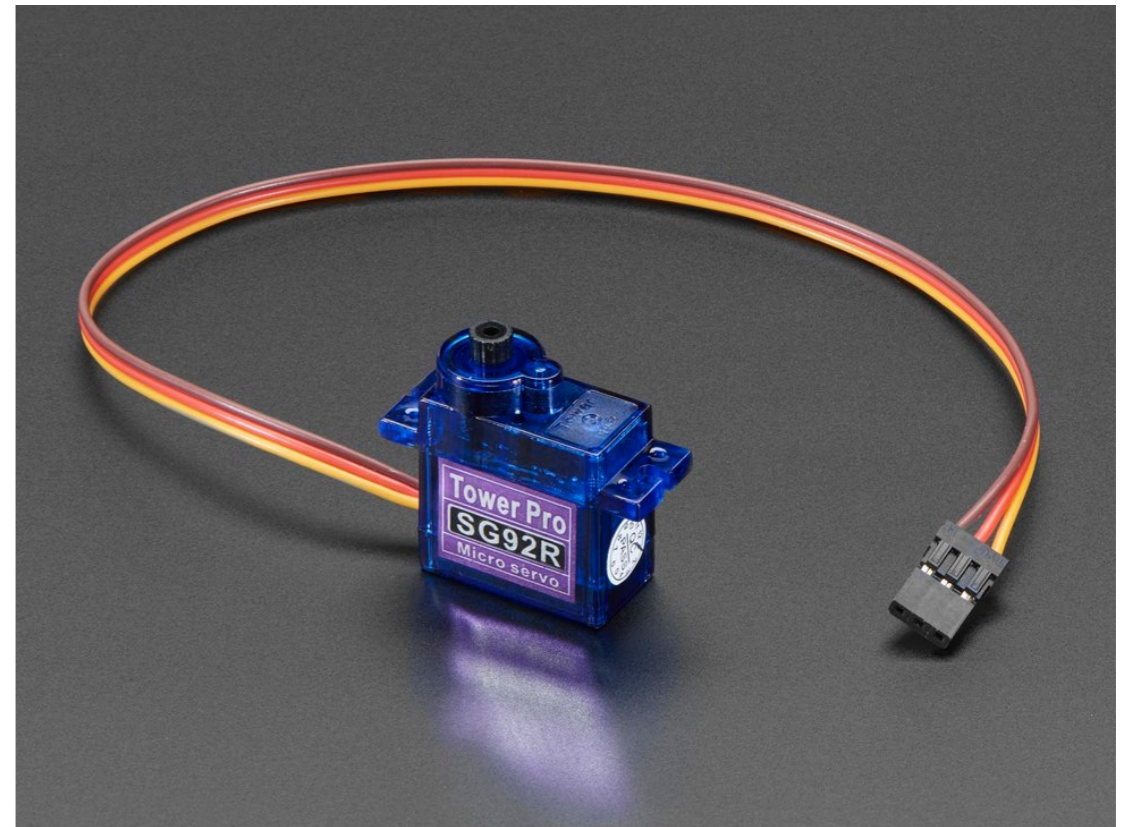building blocks

Intro to Servos

building blocks

Servos are simple motors with a microcontroller built in.

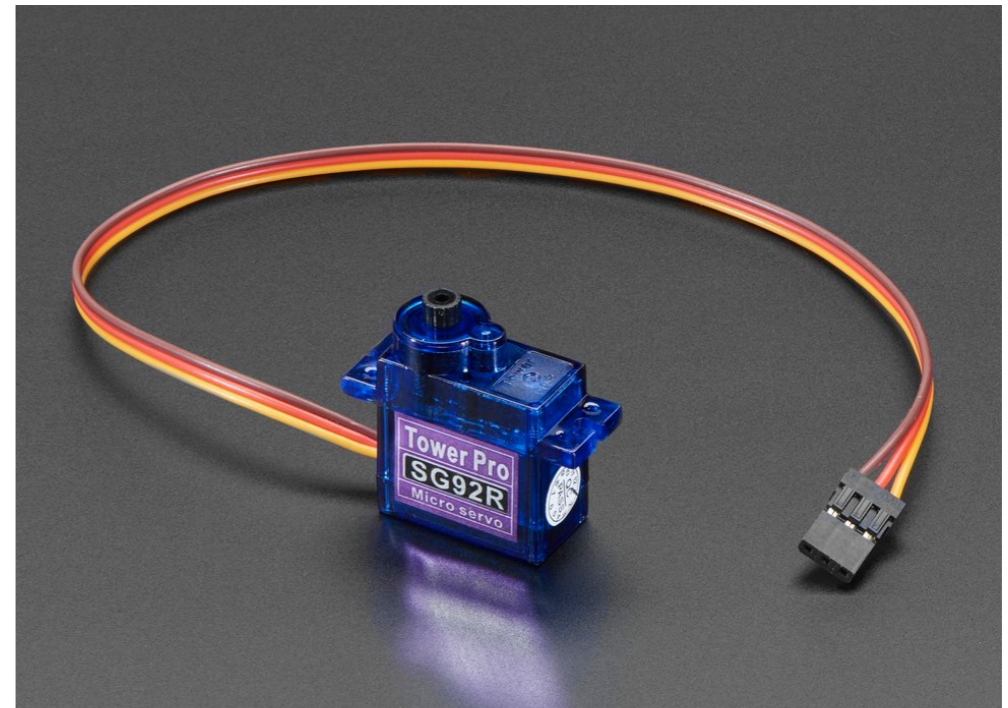Technically they come in two flavours.

180 degrees & 360 degrees

We have 180 servos.

building blocks

Servos **differ** from our other motors in **several** important **ways**.

— they only go **halfway** around

— the **motor driver** circuit is **built-in**

— allow for precise control of angular **POS**ition
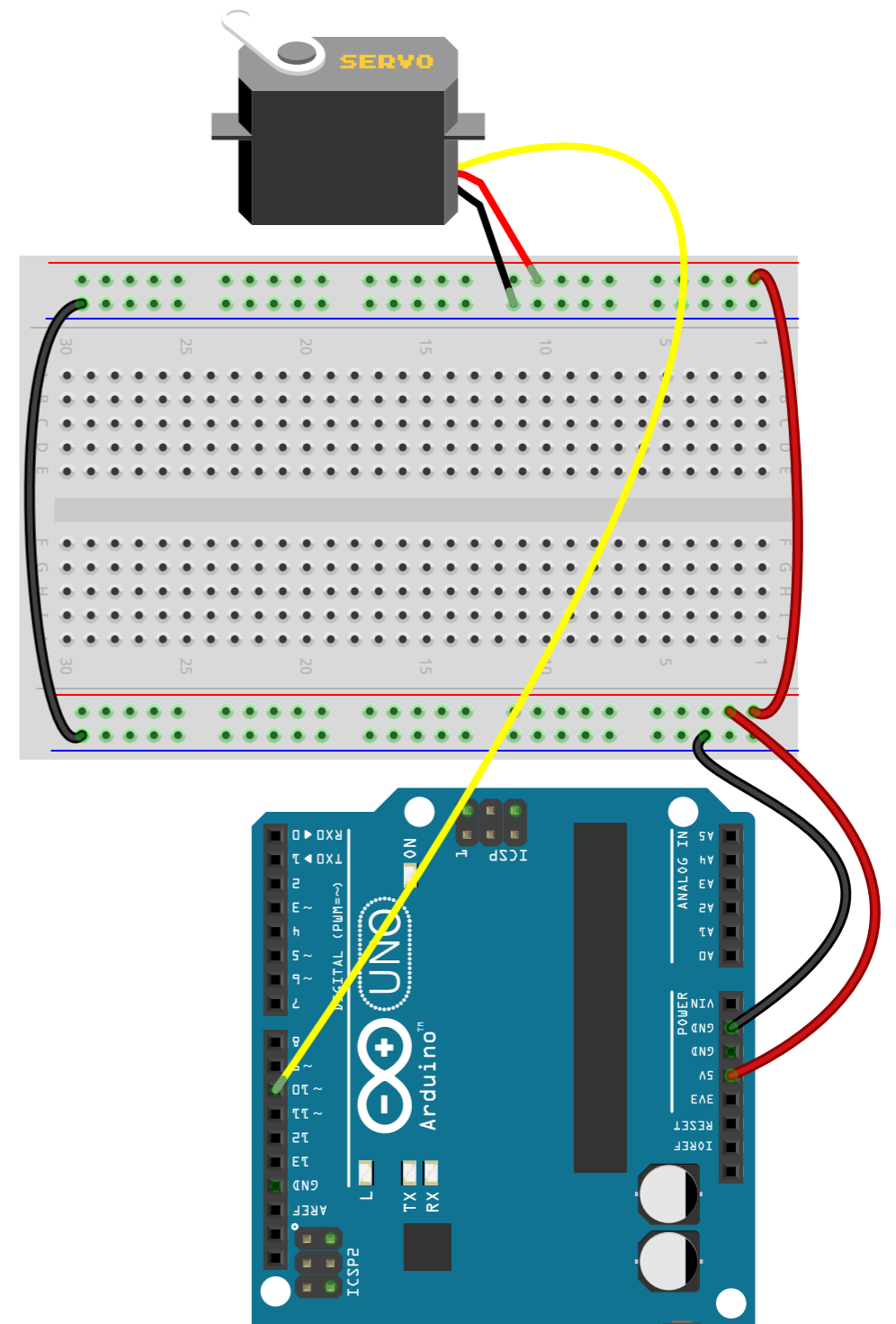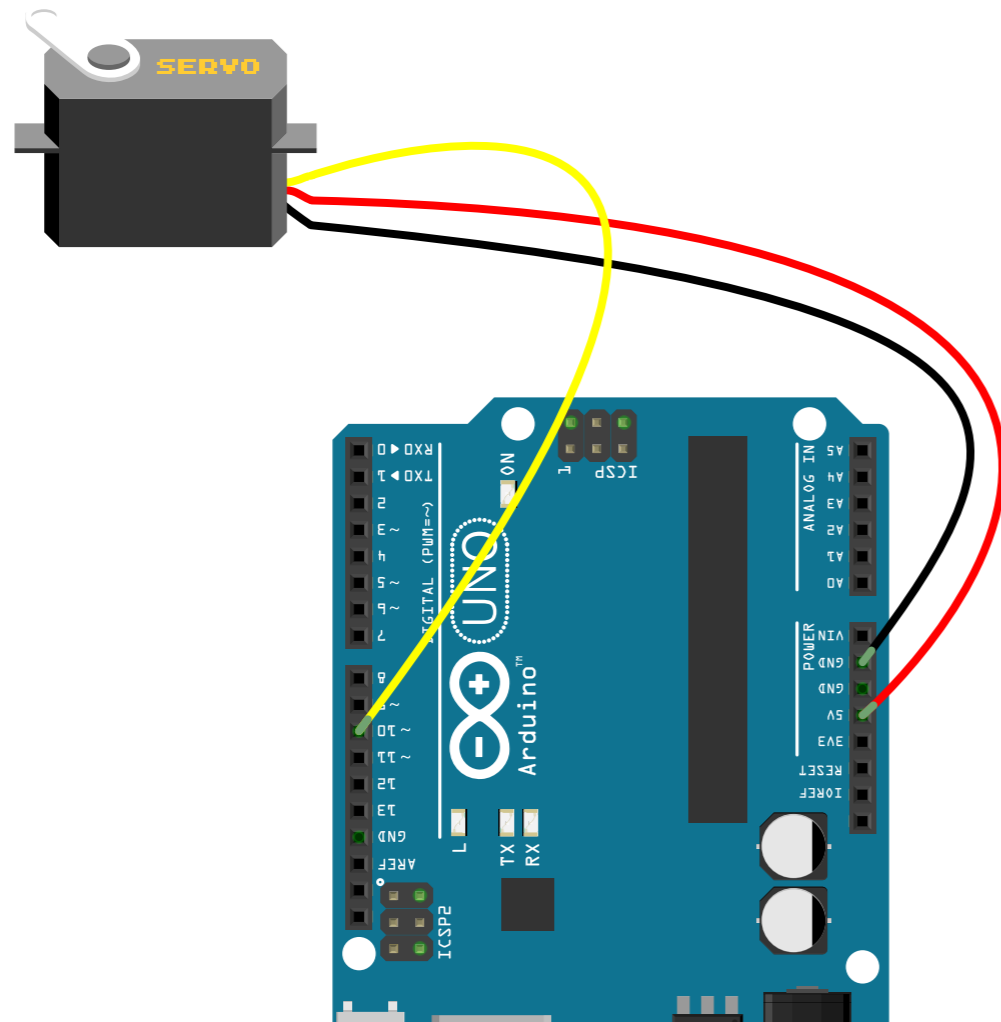
— there is a **library** for servo control

Instead of adding a wheel,
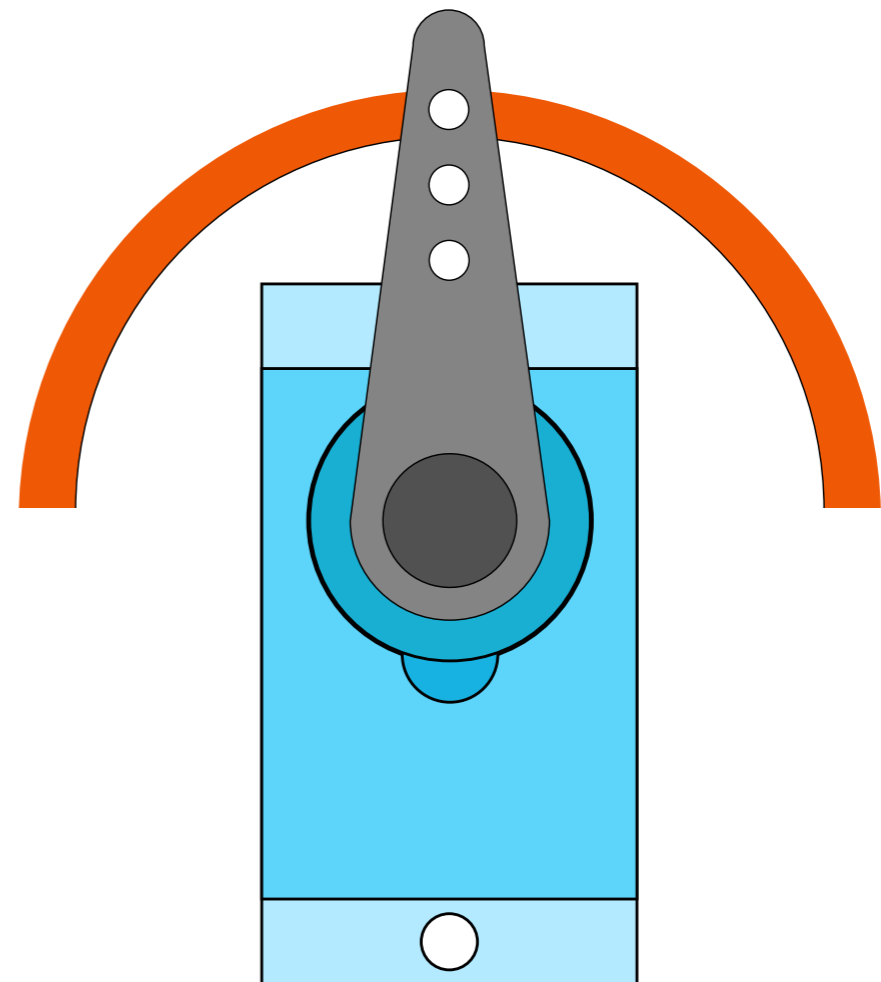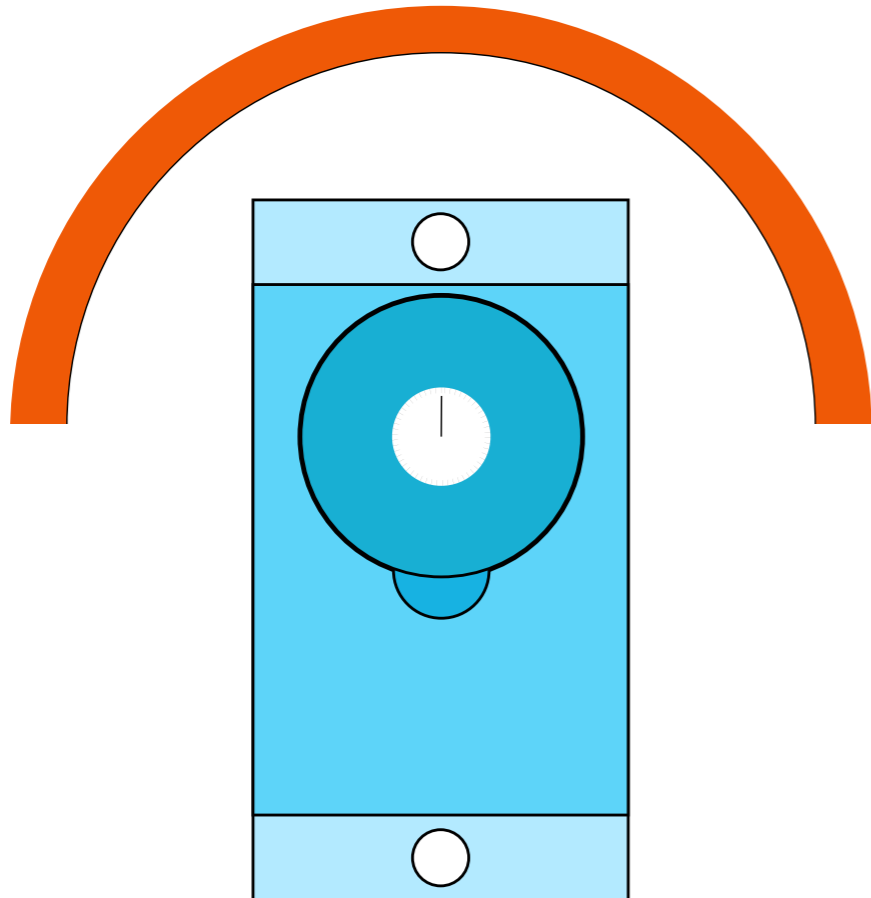
One adds a **HORN** (like a unicorn or rhino)

(we don't name these things, but we do make up the bad comparisons)

building blocks

BROWN wire connects to **GND**
RED wire to **5V**
YELLOW to a digital Pin 10 (SIGNAL)

building blocks

Get Started — Center servo and attach horn
(orange arc indicates travel of servo)

building blocks

Add CODE

Upload this file:

_0_centerServo

building blocks

Sweep the Servo
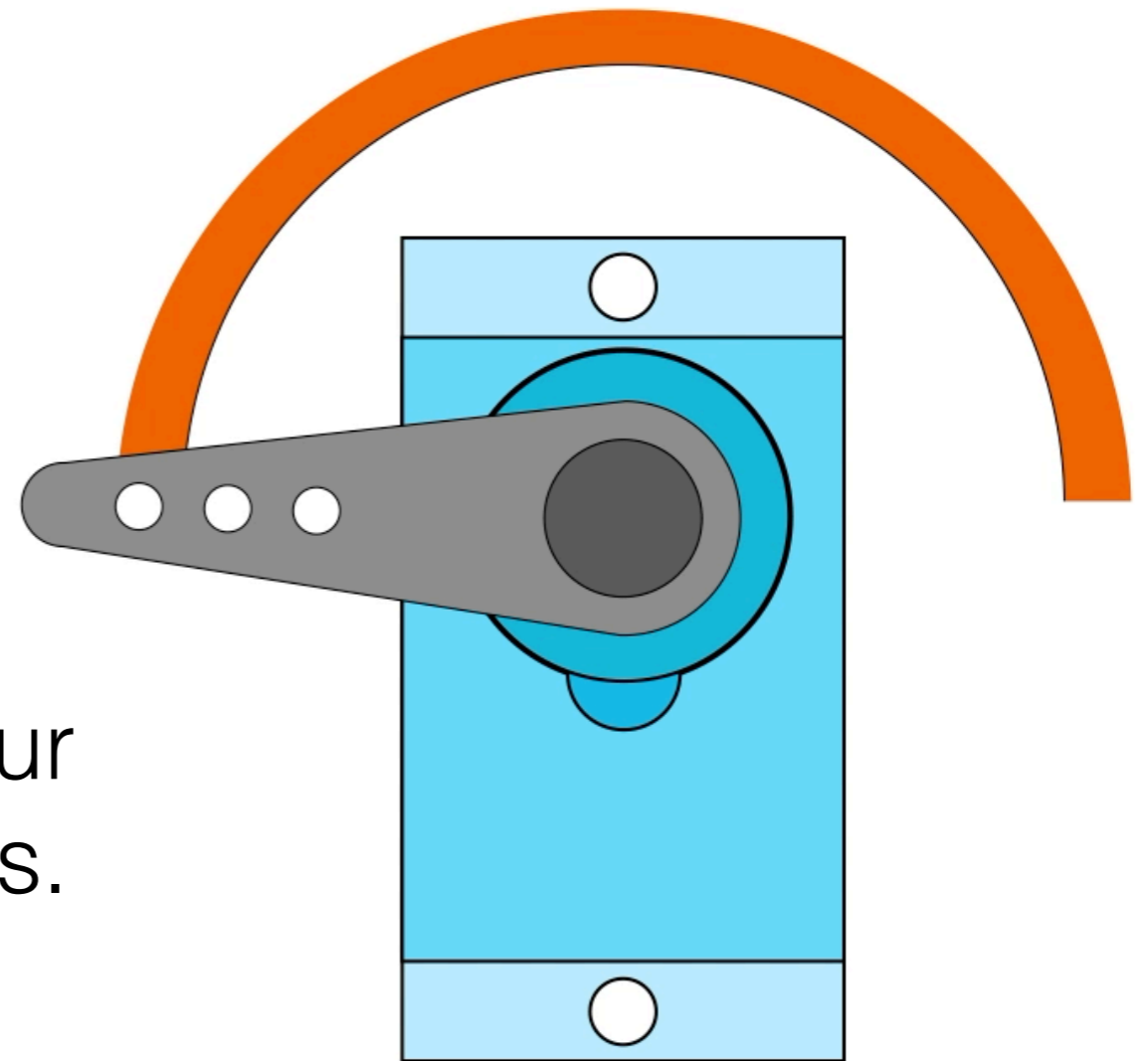
Using a **for-loop**, to move our servo through all its positions.

Upload this file:

_1_SweepServo

tangible