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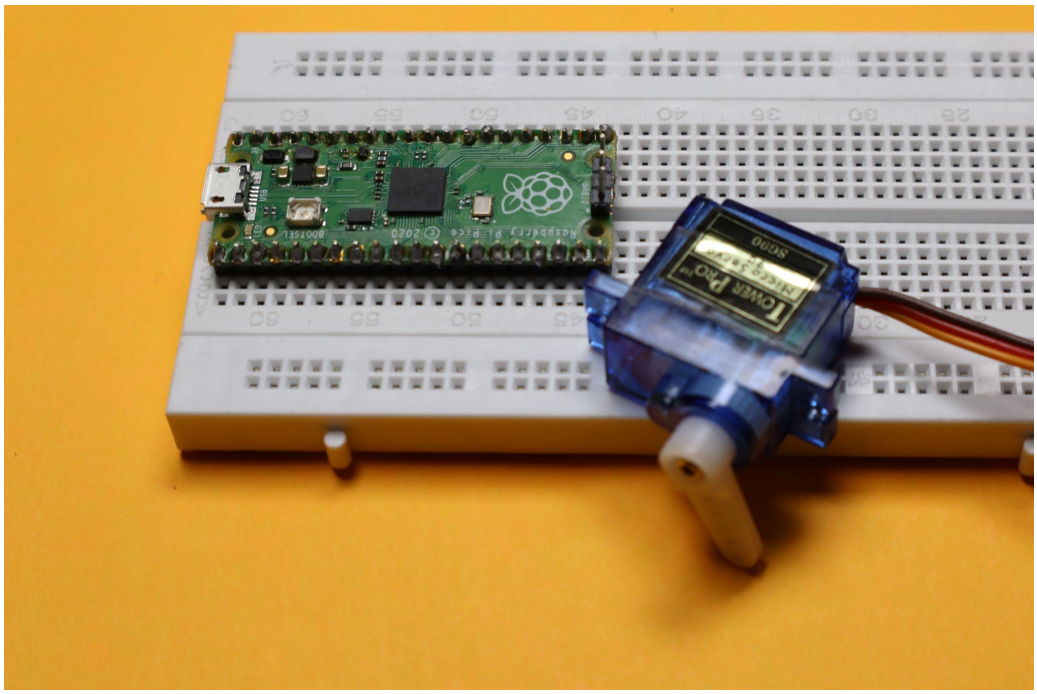
Interfacing of Servo motor with Raspberry pi pico



Material Required 👍 :

S. No	Components	Buy Components
1.	Raspberry pi Pico	https://amzn.to/3Uc5szT
2.	Breadboard	https://amzn.to/3QdsROy
3.	Servo motor	https://amzn.to/3qc3im8
4.	Connecting wires	https://amzn.to/3cI97EY

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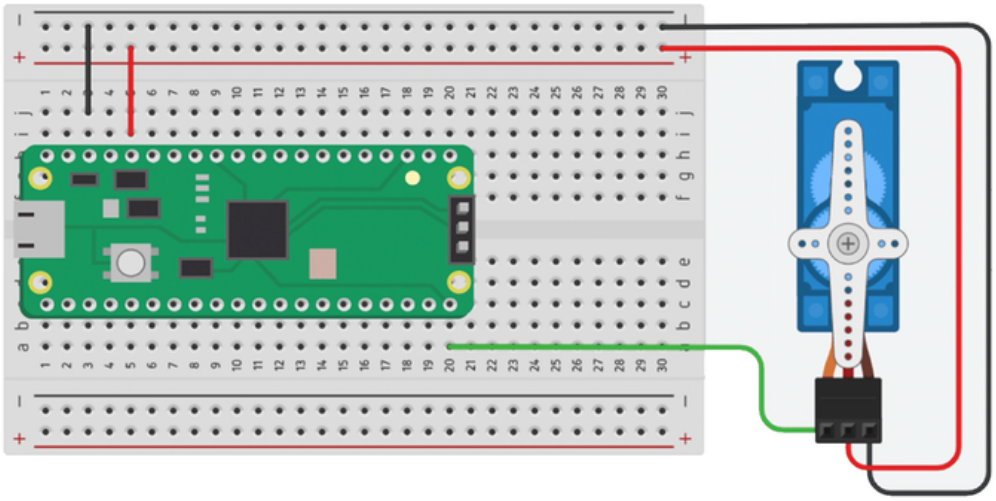
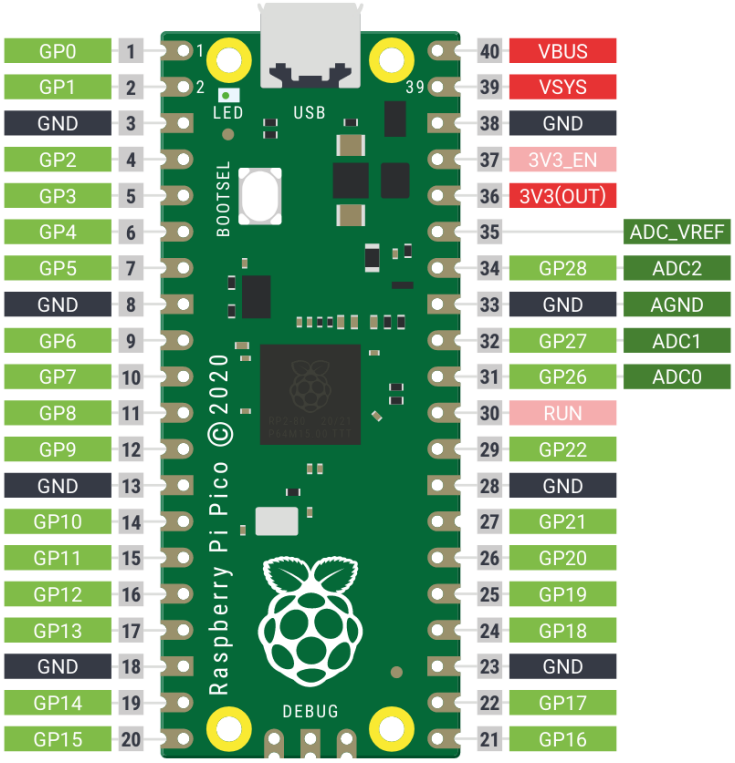
Circuit Diagram :



Raspberry pi Pinout :



Code 💻:

```
from time import sleep

from machine import Pin

from machine import PWM

pwm = PWM(Pin(15))

pwm.freq(50)

#Function to set an angle

#The position is expected as a parameter

def setServoCycle (position):

    pwm.duty_u16(position)

    sleep(0.01)

while True:

    for pos in range(1000,9000,20):

        setServoCycle(pos)

    for pos in range(9000,1000,-20):

        setServoCycle(pos)
```