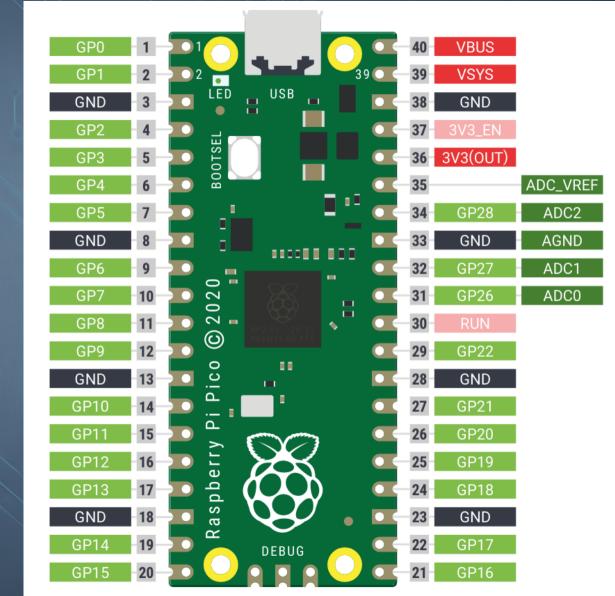


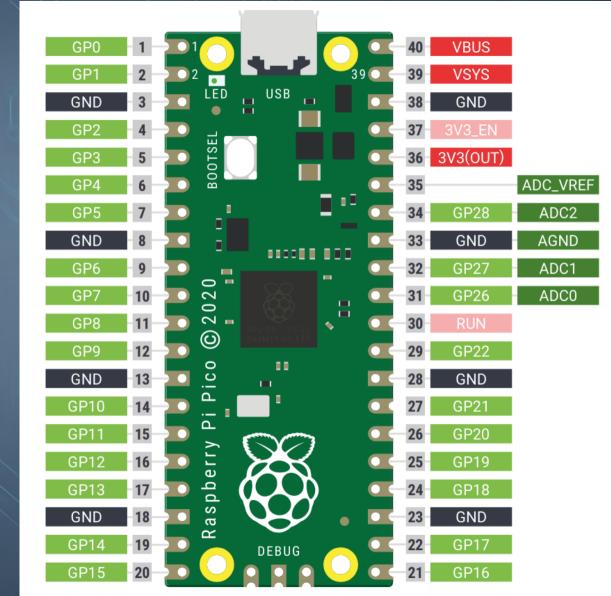
Raspberry Pi Pico Basics

- 26 GPIO pins (General Purpose Input/Output)
- 3 analog inputs (ADC)
- 16 PWM channels
- Runs on 3.3V



Raspberry Pi Pico Basics

- We feed in ~5V on VSYS
- We can get 3.3V Out from 3V3(OUT) for powering other things



Raspberry Pi Pico Basics

- GPIO Pins are General Purpose Input Output Pins
- These can be set to either Input or Output. They can be changed at will, but can only be one or the other at any given time.
- When set to Output, they can set to High (1, True) or Low (0, False). When high, they output 3.3V. When low than can take in, or sink, 3.3V. They act like a switch in output mode.
- In Input mode, you read them and they will tell you their state: whether or not voltage is applied to them.

Raspberry Pi Pico Basics

- Analog pins allow you to read the actual voltage applied to the pin, not just high or low. They can read from 0V – 3.3V.
- PWM stands for Pulse Width Modulation. It outputs pulses of varying width. This can simulate different voltages, control motor speeds, dim LEDs, etc.

