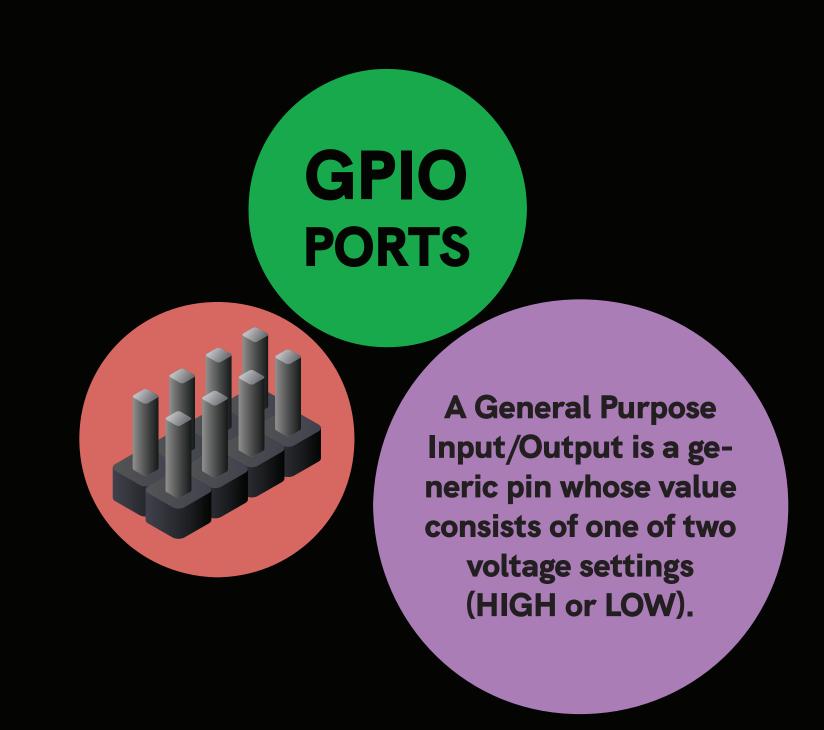
Interacting with reality:

Julia and Jetson Nano



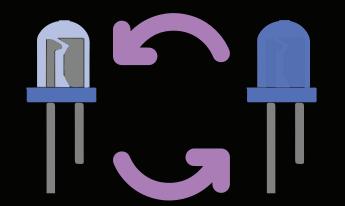




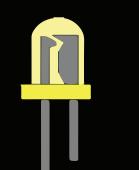
- To have a pure Julia package to control the GPIO and the camera of a Jetson Nano. ports
- To make Julia more accesible.
- To make Julia interactive.
- To develop more solutions with Julia.

```
function blink(channel::Int)
   GPIO.setmode()
   GPIO.setup(channel, "OUT", GPIO.HIGH)
   try
      while true
          GPIO.output(channel, GPIO.HIGH)
          sleep(0.1)
          GPIO.output(channel, GPIO.LOW)
          sleep(0.1)
      end
   finally
       GPIO.output(channel, GPIO.LOW)
       GPIO.cleanup()
   end
end
output_pin = 32
blink(output_pin)
```

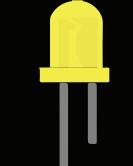
RESULTS

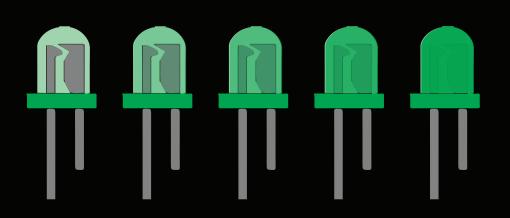




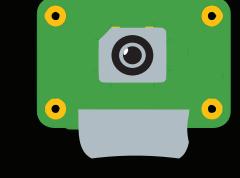








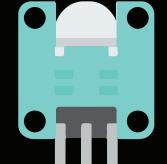




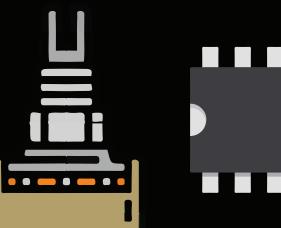
INPUT & OUTPUT

PWM OUTPUT

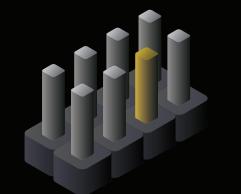
CAMERA



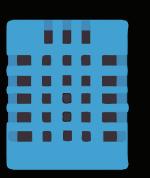
CONCLUSIONS AND FUTURE WORK

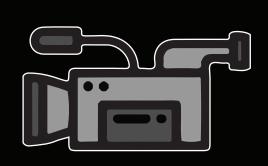












PWM INPUT

SENSORS & COMMUNICATIONS

VIDEO CAMERA

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