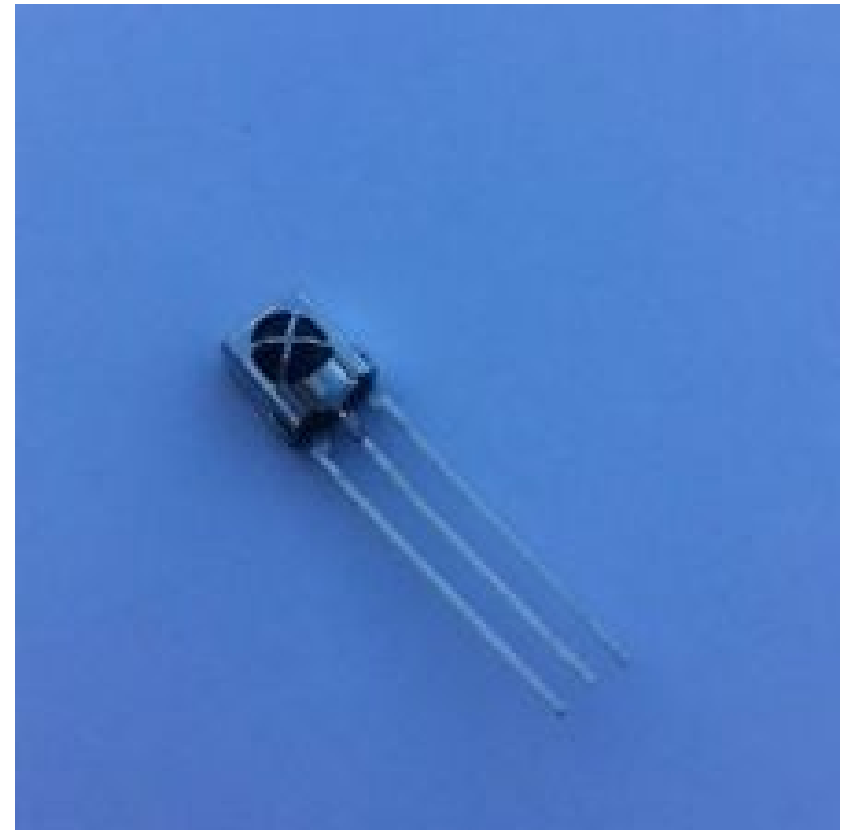
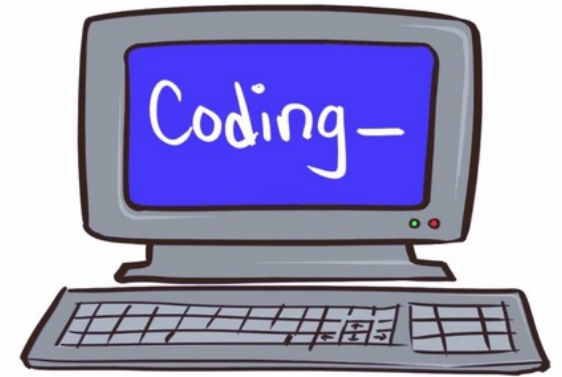


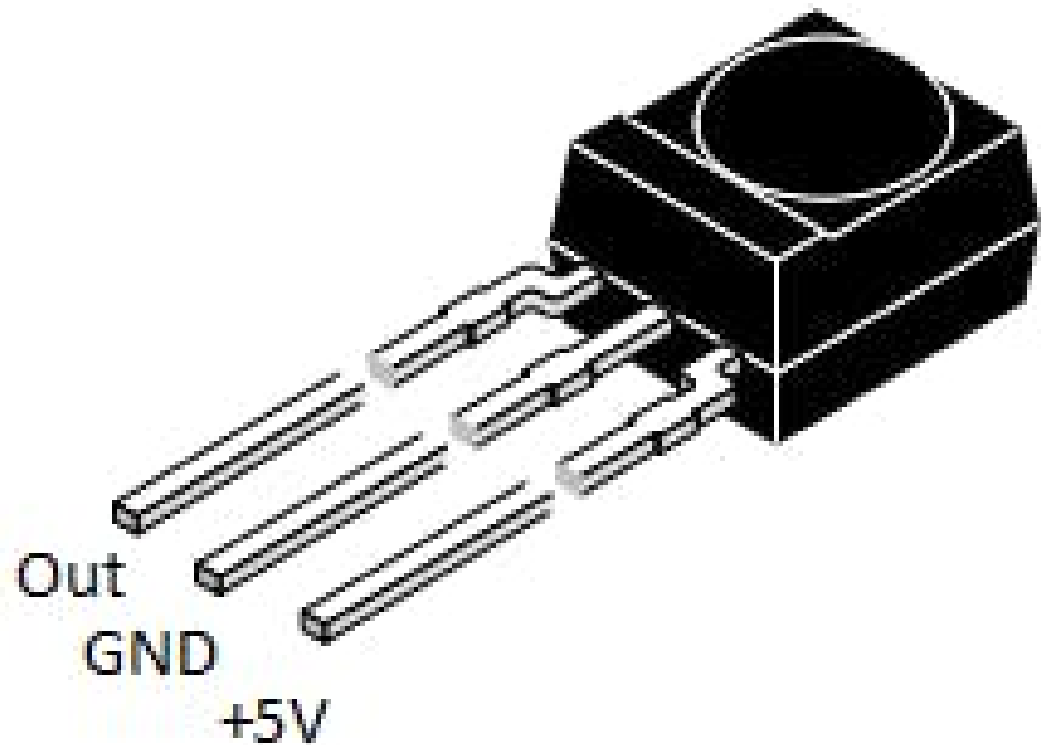
Class 42

Infrared “remotes”



Connections:

“Out” → GPIO 27
(as per myconfig.h!)



5V – 3.3V?

ESP32 makers say gpio inputs (nominally 3.3V) are 5V tolerant.

However they also say there are no long-term testings of degradation. They protect their butt by official documents not admitting 5V tolerance.

For our use, we may use 5V (as the infrared device puts out). For professional/industrial use, a resistor divider would be better practice!

Arduino Library IRREMOTE

Newest version of this quite old-established library now has limited support for ESP32. Receive only, not send.

I find it is not “decoding” the data pulses according to any of the known proprietary codings, but a “raw” or “hashed” output number per button can be enough for simple robotics use.

Codecs: Aiwa, JVC, Lego, LG, Mitsubishi, NEC, Panasonic, RC5, RC6, Samsung, Sanyo, Sharp, Sony.

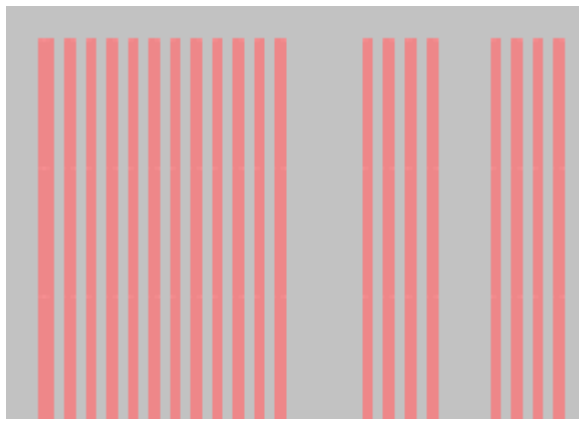
Library examples

IRrecvDemo

IRrecvDump

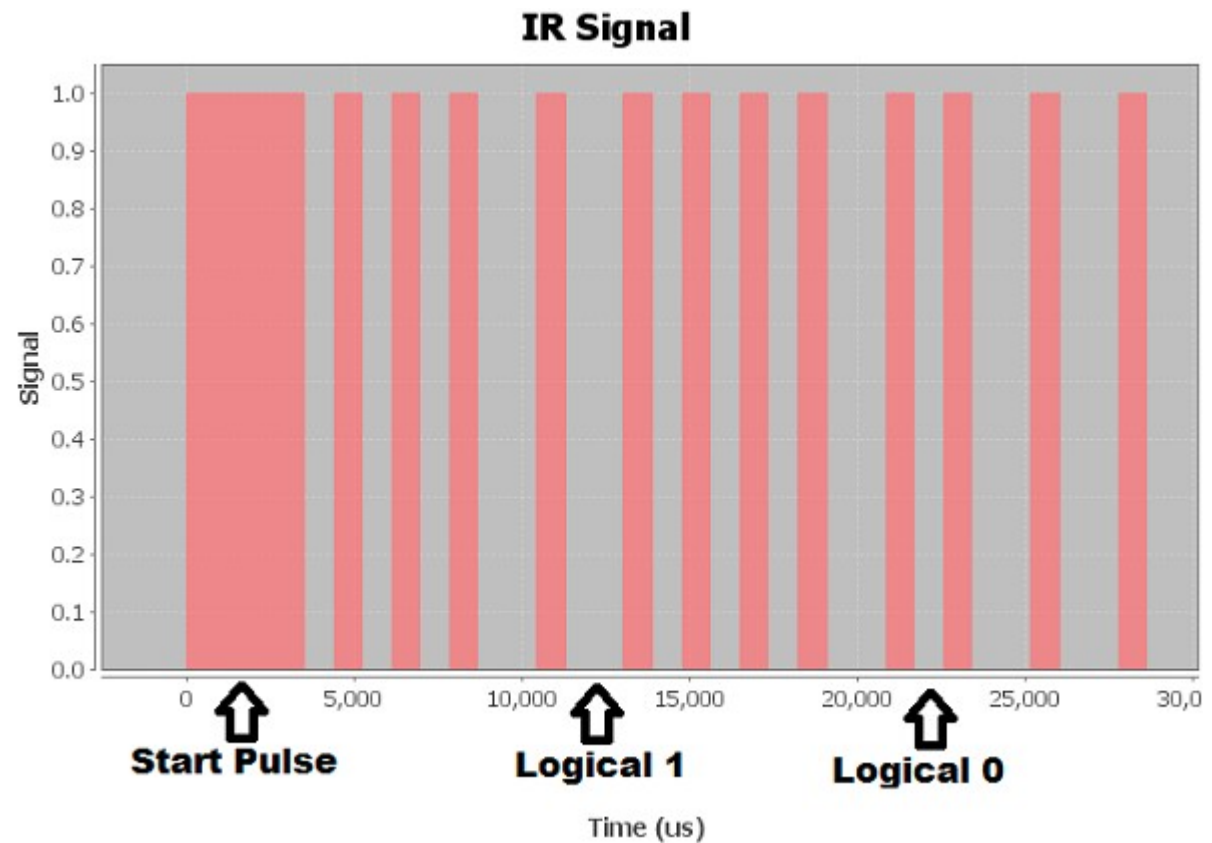
IRrecvDumpV2

IR receiver device



38kHz “carrier”.

The tiny receiver demodulates from the 38kHz down to slower “Mark / Space” pulses.



Some tech references

<https://www.vishay.com/docs/80071/dataform.pdf>

<http://www.brainlinksystem.com/all-about-ir-signals>