Pinup #1

A low-effort presentation by: Patrick Groh
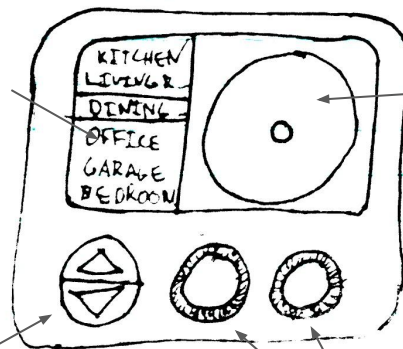
Recap

IoT lighting remote. Because you really need to add an extra step to a light switch.

Remote Sketch

Device selection

Color wheel

KITCHEN
LIVING R
DINING
OFFICE
GARAGE
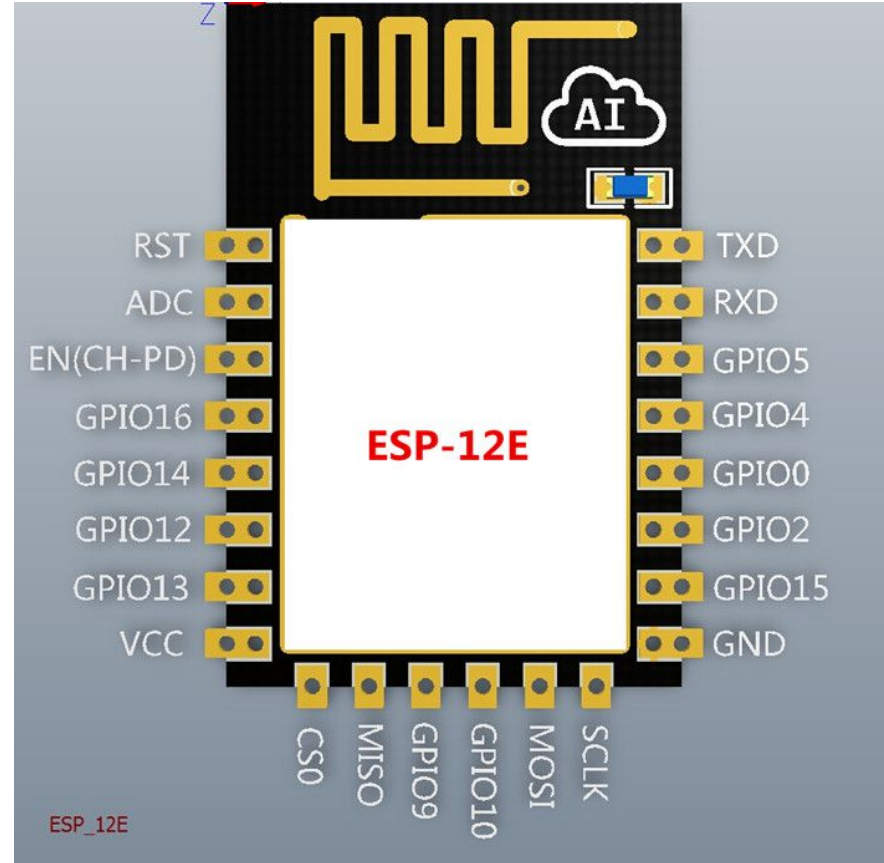BEDROOM

Selection button

Knobby bits

Ideally, a slightly larger version of this.

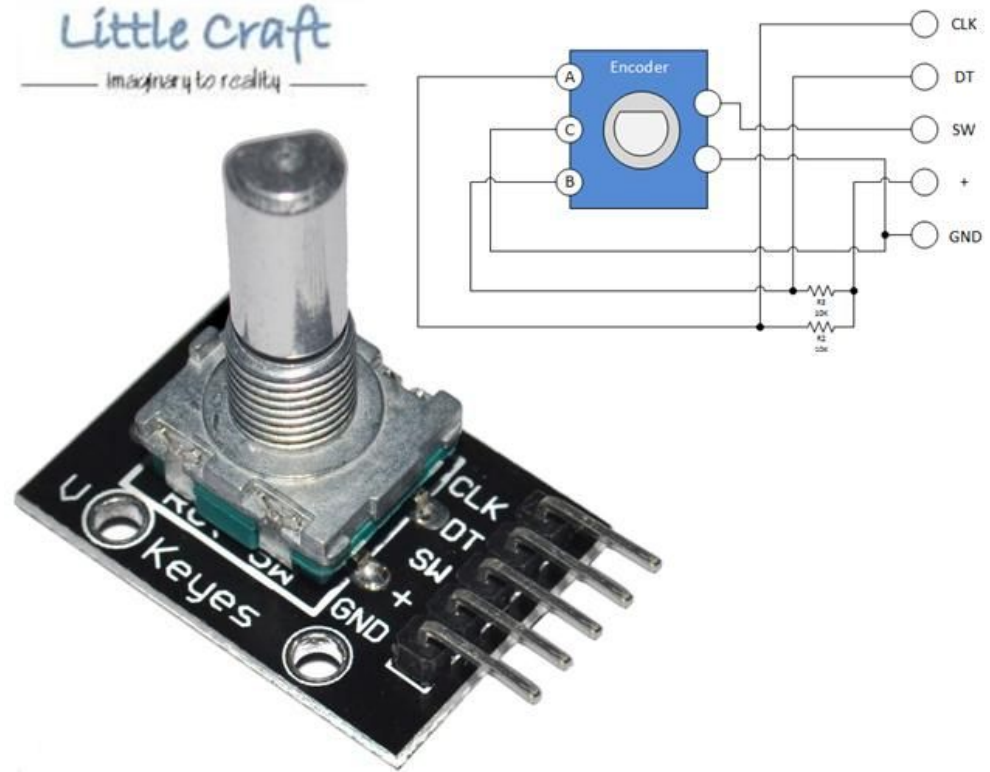# Hardware

Using the ESP-12E for processing

- Basically just a better version of the Adafruit Huzzah
- Has built-in WiFi, which is essential to my project
- Stupid cheap, for the processor itself it costs less than $2
- Super fast, can go up to 160MHz. Writing a bunch of data to an LCD shouldn't be an absurd slowdown.
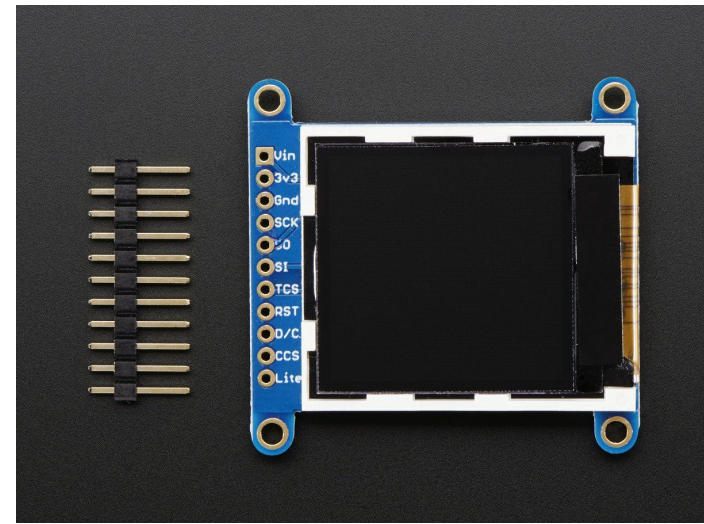
More Hardware

Rotary Encoders

- Fun to spin
- Will allow for seamless switching between devices
  - Color of the device you are switching to will not depend on the color of the one you just came from due to continuous rotation.
- Relatively small form factor

Screens

- Bigger
- Touch screen removes some need of encoders
- Simpler interface, touch what you want.
- Uses a lot of pins (not all pins are needed)
- Terrible documentation online from what I could tell. (*Very* simple searches.)

- Uses very few pins if you ignore the SD card
- Less data needs to be sent to it
- Doesn't have to be the main feature of the interface
- Really small, might not be the clearest interface for all the data I want on the screen
- Just as expensive as the other for way less features.