

## Government Hubs

[api.data.gov](https://api.data.gov/): Data.gov aims to improve public access to high value, machine readable datasets generated by the Executive Branch of the Federal Government. The site is a repository for federal government information, made available to the public.

[code.gov/#/explore-code/agencies/CFPB](https://code.gov/#/explore-code/agencies/CFPB): Code.gov is the US government's web-based, open-source software hub. The site features dozens of projects from 10 different agencies.

[docs.opencv.org/3.0-beta/index.html](https://docs.opencv.org/3.0-beta/index.html): OpenCV (Open Source Computer Vision Library) is an open source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products. Being a BSD-licensed product, OpenCV makes it easy for businesses to utilize and modify the code.

## Hardware & Libraries

Input	Arduino / NodeMCU (ESP8266)	Raspberry Pi 3B / 2B
Barometer Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Button	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
DS18B20 Temperature Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Flame Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Gas Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>

**Hardware & Libraries (cont'd)**

Input	Arduino / NodeMCU (ESP8266)	Raspberry Pi 3B / 2B
Hall Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Humidity Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
IR Obstacle Avoidance Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
IR Tracking Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
IR Receiver Modules w/ Remote Control	<a href="https://learn.sparkfun.com/tutorials/ir-communication">https://learn.sparkfun.com/tutorials/ir-communication</a>	<a href="https://www.sunfounder.com/learn/sensor-kit-v2-0-for-raspberry-pi-b-plus/lesson-23-ir-remote-control-sensor-kit-v2-0-for-b-plus.html">https://www.sunfounder.com/learn/sensor-kit-v2-0-for-raspberry-pi-b-plus/lesson-23-ir-remote-control-sensor-kit-v2-0-for-b-plus.html</a>
Joystick	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
MPU-6050 3 Axis Gyroscope + Accelerometer Sensor	<a href="https://diyhacking.com/arduino-mpu-6050-imu-sensor-tutorial/">https://diyhacking.com/arduino-mpu-6050-imu-sensor-tutorial/</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Photo-interrupter	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Photoresistors	<a href="https://learn.sparkfun.com/tutorials/sik-experiment-guide-for-arduino---v32/experiment-6-reading-a-photoresistor">https://learn.sparkfun.com/tutorials/sik-experiment-guide-for-arduino---v32/experiment-6-reading-a-photoresistor</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Potentiometer Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Pyroelectric Infrared Motion Sensor	<a href="https://learn.adafruit.com/pir-passive-infrared-proximity-motion-sensor/using-a-pir">https://learn.adafruit.com/pir-passive-infrared-proximity-motion-sensor/using-a-pir</a>	<a href="https://diyhacking.com/raspberry-pi-gpio-control/">https://diyhacking.com/raspberry-pi-gpio-control/</a>
Real Time Clock DS1302	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>

**Hardware & Libraries (cont'd)**

Input	Arduino / NodeMCU (ESP8266)	Raspberry Pi 3B / 2B
Rain / Liquid Water Detection Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Reed Switch	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Rotary Encoder Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Sound Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Temperature Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Thermistor	<a href="https://learn.adafruit.com/thermistor/using-a-thermistor">https://learn.adafruit.com/thermistor/using-a-thermistor</a>	<a href="http://www.paulschow.com/2013/08/monitoring-temperatures-using-raspberry.html">http://www.paulschow.com/2013/08/monitoring-temperatures-using-raspberry.html</a>
Tilt-Switch	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Touch Switch	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Tracking Sensor	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Ultrasonic Ranging Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Vibration Switch	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>

**Hardware & Libraries (cont'd)**

Output	Arduino / NodeMCU (ESP8266)	Raspberry Pi 3B / 2B
7 Segment Display w/ 595 Shift Register	<a href="https://www.sunfounder.com/learn/rfid-kit-v2-0-for-arduino/lesson-20-driving-7-segment-display-by-74hc595-rfid-v2-0-for-arduino.html">https://www.sunfounder.com/learn/rfid-kit-v2-0-for-arduino/lesson-20-driving-7-segment-display-by-74hc595-rfid-v2-0-for-arduino.html</a>	<a href="https://www.sunfounder.com/learn/Super_Kit_V2_for_RaspberryPi/lesson-11-driving-7-segment-display-by-74hc595-super-kit-for-raspberrypi.html">https://www.sunfounder.com/learn/Super_Kit_V2_for_RaspberryPi/lesson-11-driving-7-segment-display-by-74hc595-super-kit-for-raspberrypi.html</a>
Buzzer Module	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
I2C LCD1602	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
LEDs (Various Colors, RGB, infrared, modules)		<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Laser Emitter	<a href="https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html">https://www.sunfounder.com/learn/category/Sensor-Kit-v2-0-for-Arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Servo motors (SG90)	<a href="http://www.elegoo.com/tutorial/Elegoo%20Super%20Starter%20Kit%20for%20UNO%2011.7.zip">http://www.elegoo.com/tutorial/Elegoo%20Super%20Starter%20Kit%20for%20UNO%2011.7.zip</a>	<a href="https://learn.adafruit.com/adafruit-16-channel-pwm-servo-hat-for-raspberry-pi/">https://learn.adafruit.com/adafruit-16-channel-pwm-servo-hat-for-raspberry-pi/</a>
Stepper Motor & ULN2003 Stepper Motor Driver Board	<a href="http://www.elegoo.com/tutorial/Elegoo%20Super%20Starter%20Kit%20for%20UNO%2011.7.zip">http://www.elegoo.com/tutorial/Elegoo%20Super%20Starter%20Kit%20for%20UNO%2011.7.zip</a>	

**Hardware & Libraries (cont'd)**

General	Arduino / NodeMCU (ESP8266)	Raspberry Pi 3B / 2B
555 Timer	<a href="http://www.555-timer-circuits.com/">http://www.555-timer-circuits.com/</a>	
595 Shift Register	<a href="https://www.sunfounder.com/learn/rfid-kit-v2-0-for-arduino/lesson-20-driving-7-segment-display-by-74hc595-rfid-v2-0-for-arduino.html">https://www.sunfounder.com/learn/rfid-kit-v2-0-for-arduino/lesson-20-driving-7-segment-display-by-74hc595-rfid-v2-0-for-arduino.html</a>	<a href="https://www.sunfounder.com/learn/Super_Kit_V2_for_RaspberryPi/lesson-11-driving-7-segment-display-by-74hc595-super-kit-for-raspberrypi.html">https://www.sunfounder.com/learn/Super_Kit_V2_for_RaspberryPi/lesson-11-driving-7-segment-display-by-74hc595-super-kit-for-raspberrypi.html</a>
NPN Transistors	<a href="https://learn.adafruit.com/adafruit-arduino-lesson-13-dc-motors/transistors">https://learn.adafruit.com/adafruit-arduino-lesson-13-dc-motors/transistors</a>	
PCF8591 (I2C/IIC) CMOS data acquisition / Analog-Digital Converter	<a href="https://www.sunfounder.com/learn/Sensor-Kit-v2-0-for-Arduino/lesson-33-analog-digital-converter-sensor-kit-v2-0-for-arduino.html">https://www.sunfounder.com/learn/Sensor-Kit-v2-0-for-Arduino/lesson-33-analog-digital-converter-sensor-kit-v2-0-for-arduino.html</a>	<a href="https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html">https://www.sunfounder.com/learn/category/sensor-kit-v2-0-for-raspberry-pi-b-plus.html</a>
Various Capacitors		
Various Diodes		
Various Relays		
Various Resistors		

**Hardware & Libraries (cont'd)**

Kits/Etc.		
Raspberry Pi 3	<a href="https://www.raspberrypi.org/products/raspberry-pi-3-model-b/">https://www.raspberrypi.org/products/raspberry-pi-3-model-b/</a>	
Arduino Uno		
ESP8266 NodeMCU Boards		
Amazon Echo Dot	<a href="https://www.amazon.com/dp/B015TJD0Y4">https://www.amazon.com/dp/B015TJD0Y4</a>	
Raspberry Pi Camera Module	<a href="https://www.raspberrypi.org/products/camera-module-v2/">https://www.raspberrypi.org/products/camera-module-v2/</a>	
FLIR One Imaging Camera (Android)	<a href="http://www.flir.com/flirone/ios-android/">http://www.flir.com/flirone/ios-android/</a>	
FLIR One Imaging Camera (IOS)	<a href="http://www.flir.com/flirone/ios-android/">http://www.flir.com/flirone/ios-android/</a>	
FLIR One Dev Kit	<a href="https://www.sparkfun.com/products/13233">https://www.sparkfun.com/products/13233</a>	
TP-LINK Smart Wifi Plug	<a href="http://www.tp-link.com/us/products/details/cat-5516_HS100.html">http://www.tp-link.com/us/products/details/cat-5516_HS100.html</a>	
Fredi Spy Camera	<a href="https://www.amazon.com/FREDI-Portable-Wireless-Digital-Recorder/dp/B01FSH5G5S">https://www.amazon.com/FREDI-Portable-Wireless-Digital-Recorder/dp/B01FSH5G5S</a>	
Spy Pen 1080p Hidden Camera	<a href="https://www.amazon.com/Primium-IM-PROVED-Upgraded-Executive-Multifunction/dp/B0196JOKII">https://www.amazon.com/Primium-IM-PROVED-Upgraded-Executive-Multifunction/dp/B0196JOKII</a>	
Polar H7 Heart Rate Sensor	<a href="https://www.polar.com/us-en/products/accessories/H7_heart_rate_sensor">https://www.polar.com/us-en/products/accessories/H7_heart_rate_sensor</a>	

**Hardware & Libraries (cont'd)**

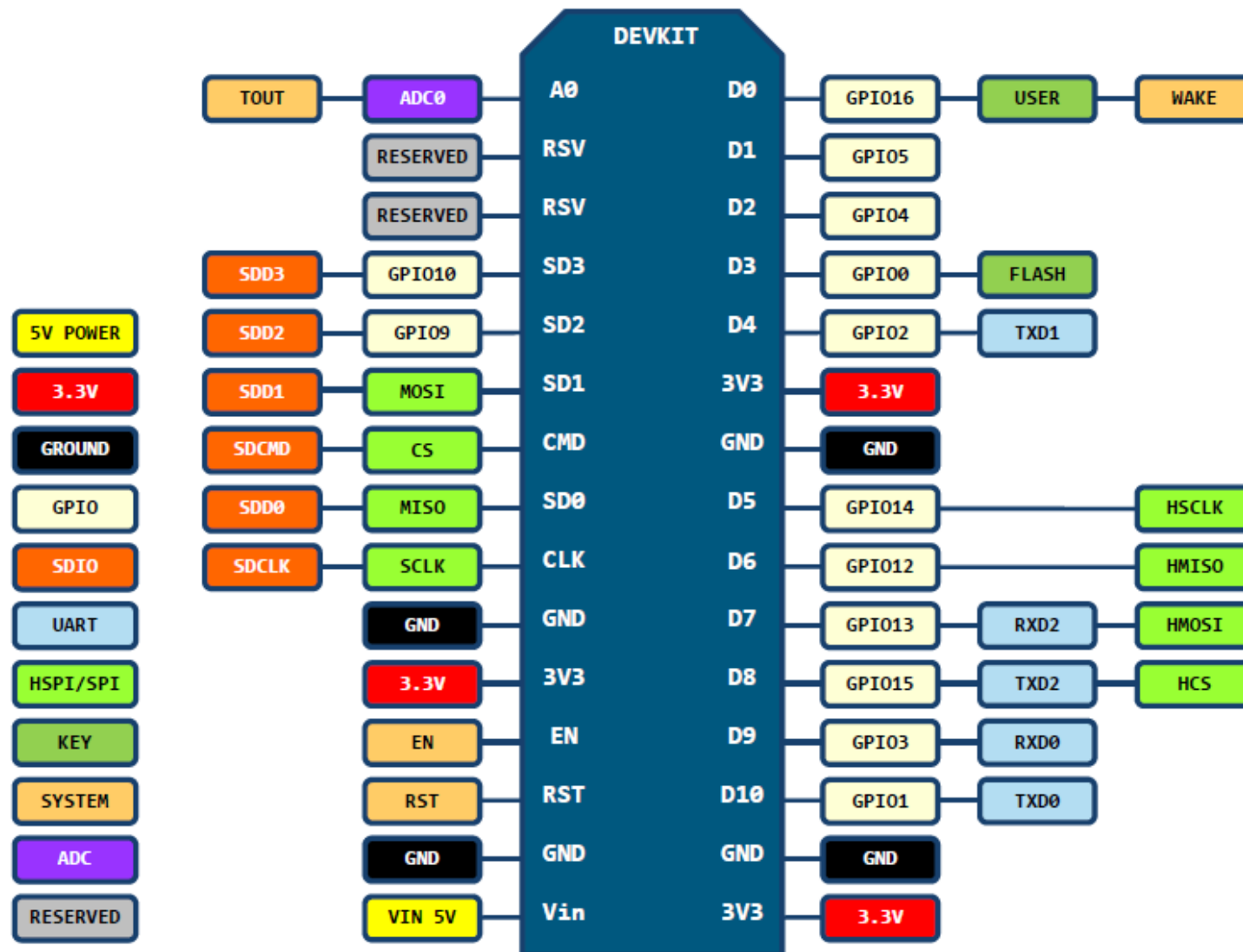
Kits/Etc.		
Adafruit Temperature and Humidity Sensor	<a href="https://learn.adafruit.com/adafruit-htu21d-f-temperature-humidity-sensor/overview">https://learn.adafruit.com/adafruit-htu21d-f-temperature-humidity-sensor/overview</a>	
Netatmo Welcome Camera	<a href="https://www.netatmo.com/product/security/welcome">https://www.netatmo.com/product/security/welcome</a>	
STM32F429-I Discovery Board	<a href="http://www.st.com/en/evaluation-tools/32f429idiscovery.html">http://www.st.com/en/evaluation-tools/32f429idiscovery.html</a>	
Alienware Laptop		
Alienware X51 Desktop Set		
Amazon Fire Phone		
Arduino 101		
Base Shield		
Dell Inspiron Laptop		
Dell Monitor		
Dell Tablet		
Dell XPS 13 Laptop (Ubuntu)		

**Hardware & Libraries** (cont'd)

Kits/Etc.		
Dell XPS 13 Laptop (Windows)		
Grove Starter Kit		
Intel Edison		
Leap Motion		
Muse Headband		
Oculus Rift		
Pebble Time		
Samsung Gear VR		
Intel Starter Kit		

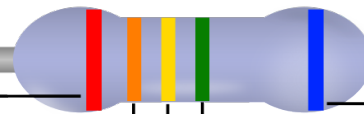


## PIN DEFINITION



*D0(GPI016) can only be used as gpio read/write, no interrupt supported, no pwm/i2c/ow supported.*

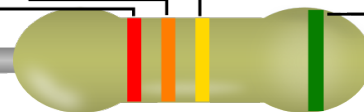
5-Band-Resistor



$$234 \times 100\text{k}\Omega = 23.4\text{M}\Omega @ 0.25\%$$

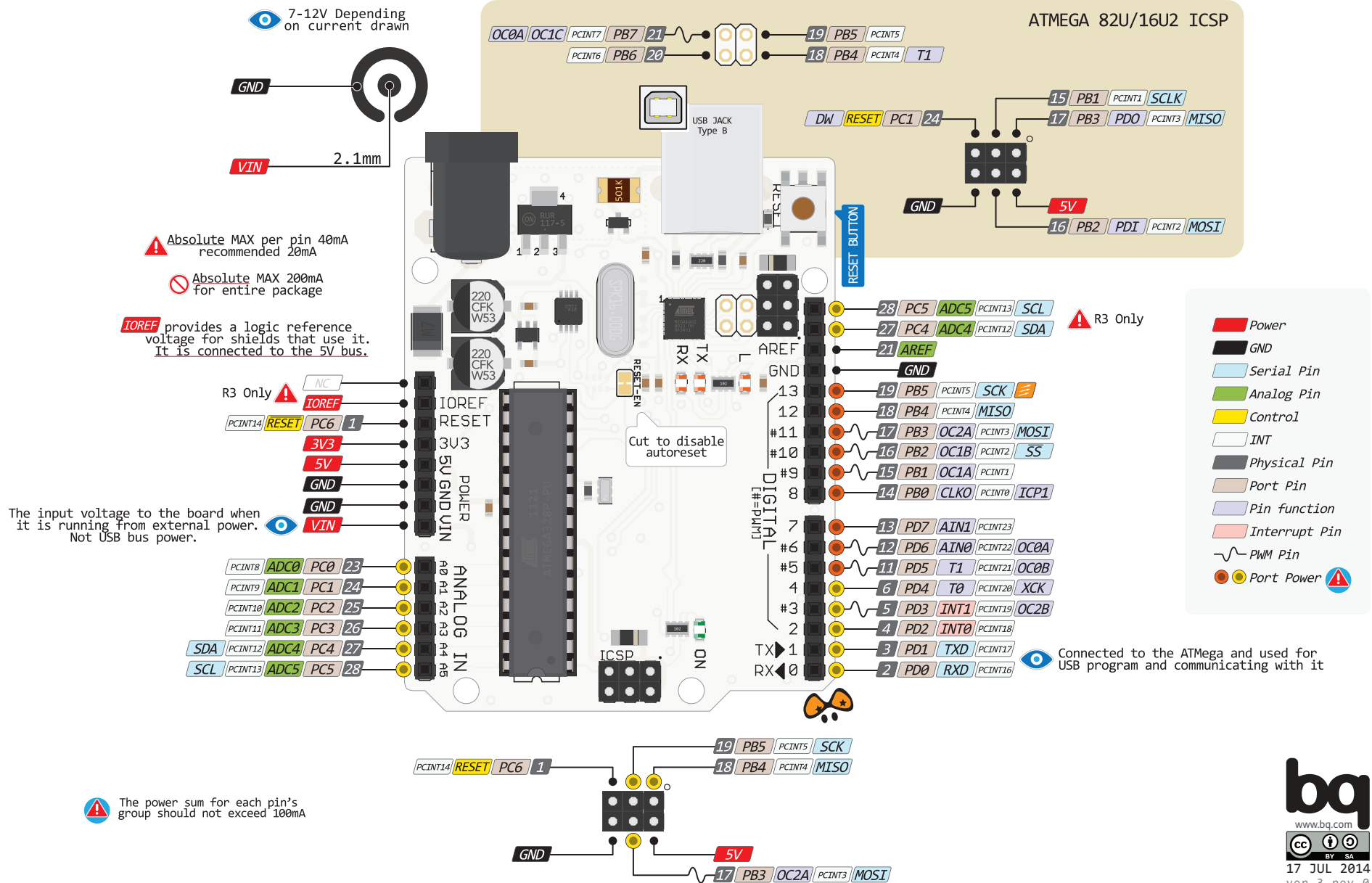
Color	Band 1	Band 2	Band 3	Multiplic.	Tolerance
Black	0	0	0	$10^0$ (1 $\Omega$ )	
Brown	1	1	1	$10^1$ (10 $\Omega$ )	$\pm 1\%$
Red	2	2	2	$10^2$ (100 $\Omega$ )	$\pm 2\%$
Orange	3	3	3	$10^3$ (1k $\Omega$ )	
Yellow	4	4	4	$10^4$ (10k $\Omega$ )	
Green	5	5	5	$10^5$ (100k $\Omega$ )	$\pm 0.5\%$
Blue	6	6	6	$10^6$ (1M $\Omega$ )	$\pm 0.25\%$
Purple	7	7	7	$10^7$ (10M $\Omega$ )	$\pm 0.1\%$
Gray	8	8	8	$10^8$ (100M $\Omega$ )	$\pm 0.05\%$
White	9	9	9	$10^9$ (1G $\Omega$ )	
Gold				$10^{-1}$ (100m $\Omega$ )	$\pm 5\%$
Silver				$10^{-2}$ (10m $\Omega$ )	$\pm 10\%$

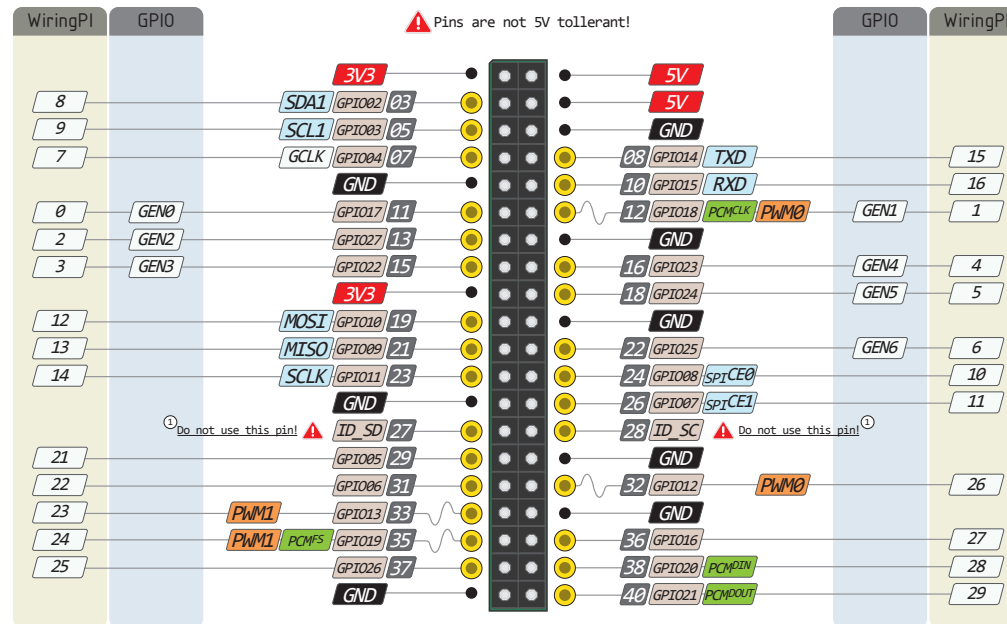
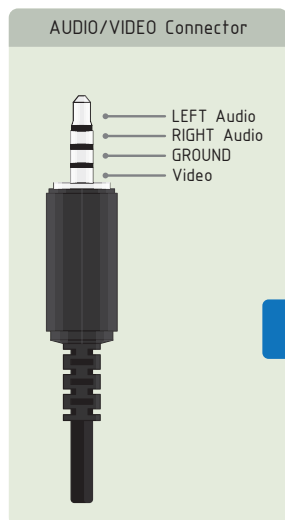
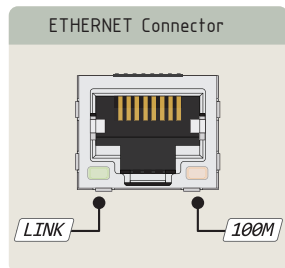
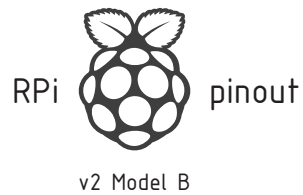
4-Band-Resistor



$$23 \times 10\text{k}\Omega = 230\text{k}\Omega @ 0.5\%$$

# UNO PINOUT





⚠ The PWM pin available on the GPIO header is shared with the Audio system

