

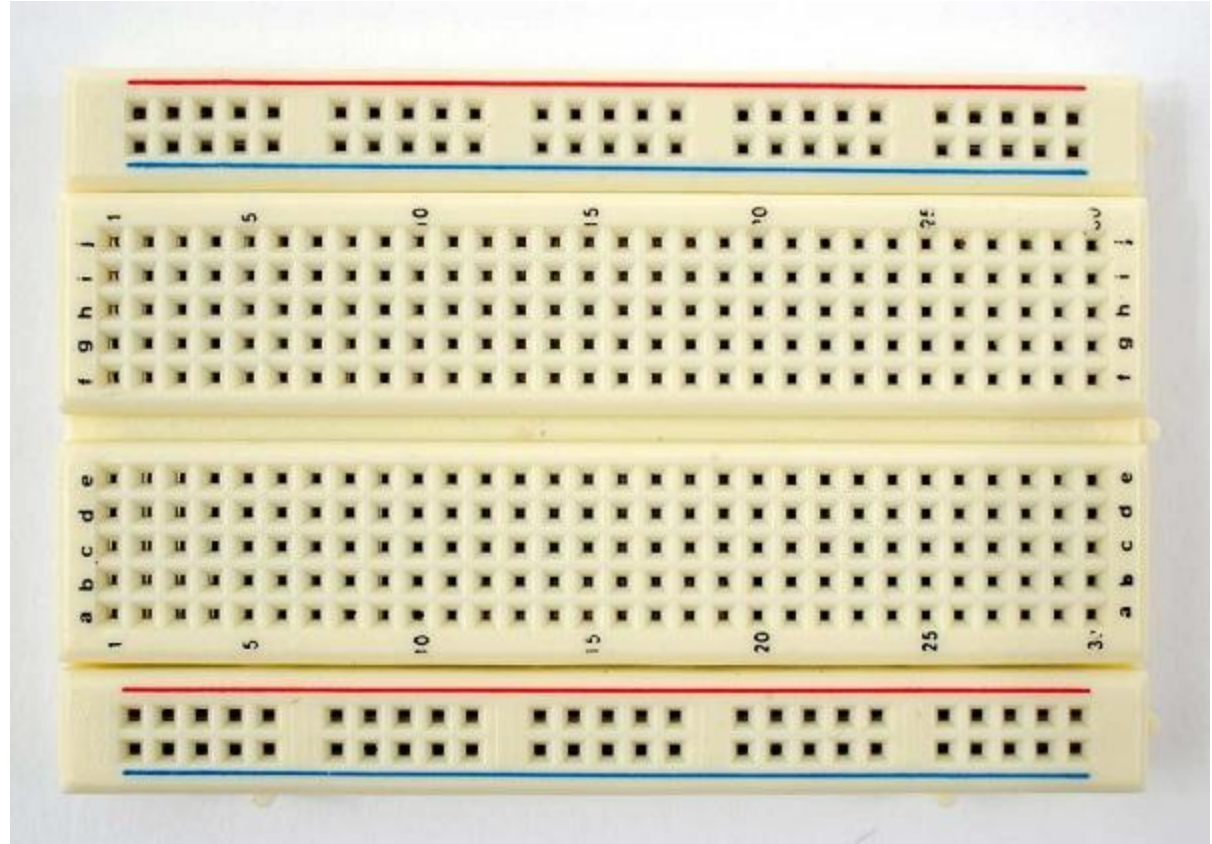


- Power supply
- Passive components
- Active components

Another perspective :

- Sensors
- Actuators

Breadboard



Resistors



Capacitors



Mamun2a - CC ShareAlike 2.5 license

Jumper Wires

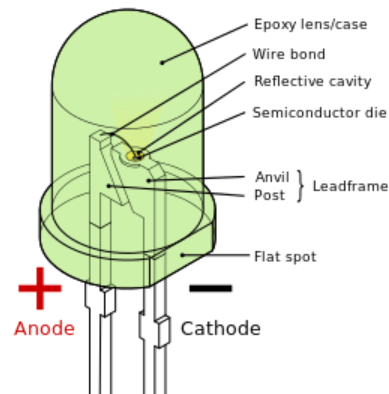
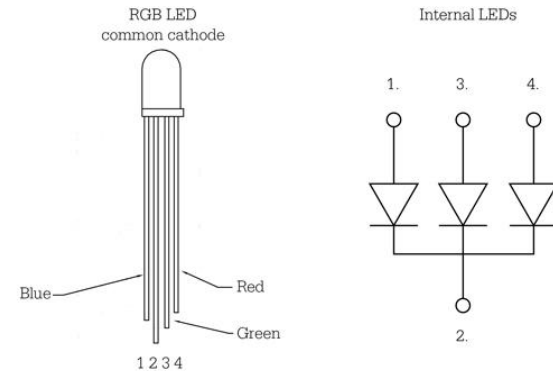


Switches



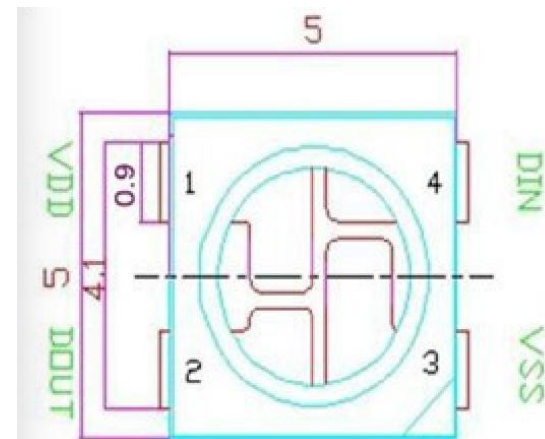
LEDs





http://courses.cs.purdue.edu/_media/cs25000:rgb_led_diagram.jpg?w=500&tok=a083cc

By Inductiveload [Public domain], via Wikimedia Commons



The mechanical size and pin drawing of WS2812B

Input

- Read a signal

Output

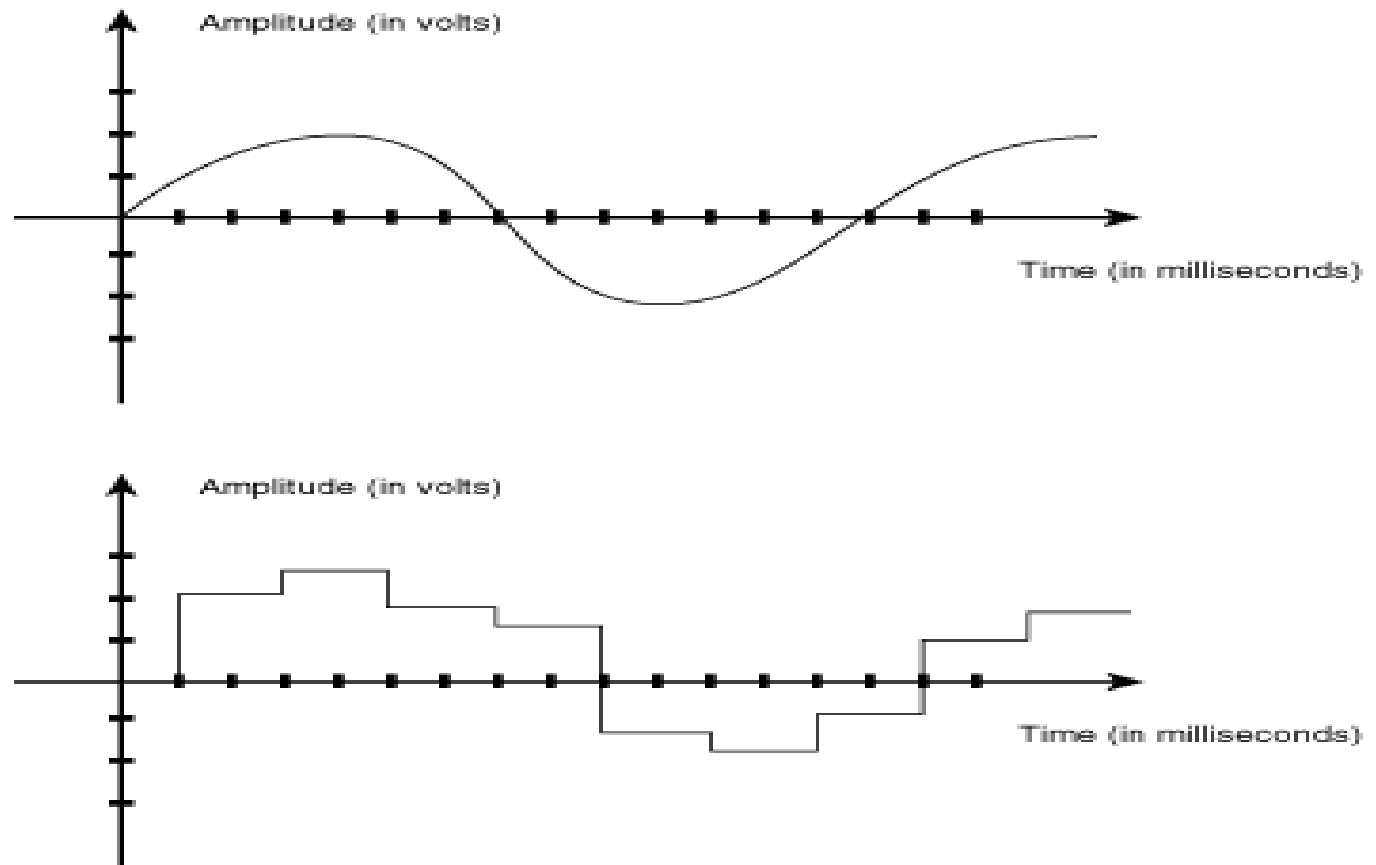
- Send out a signal

HIGH

+5V

LOW

0V (Ground)



Analog

- Continuous signal
- Signal takes infinite values

Digital

- Discrete signal
- Signal can only take finite values

Let's get started !