

The Blindinator

By Ivan Cooper & Meena Shah

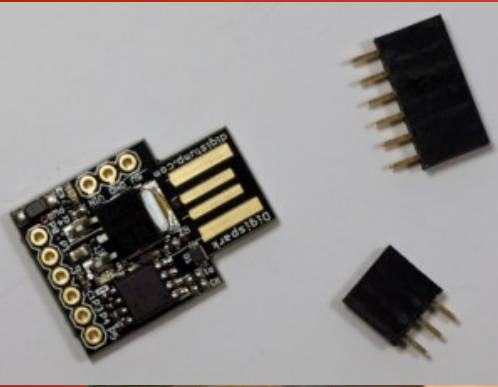
- * Computer Vision with SimpleCV *
- * USB Servo/Laser control *

SimpleCV

- Free Python 2.7 based computer vision API
- Based on OpenCV
- Easy to work with images, cameras, display
- Built in ability to detect some objects/features
- Training functions



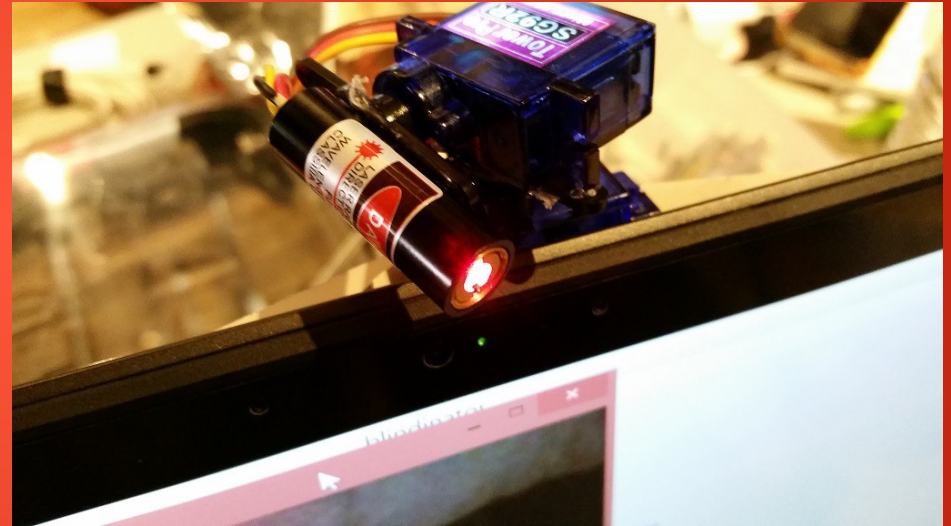
Digispark USB



- Tiny USB microcontroller
- Plugs directly into laptop
- Compatible with some Arduino code and libraries
- Software emulated USB – convenient but imperfect...

Laser and Servos (from Adafruit)

- 5mW Class IIIA TTL-controlled laser
- Tower Pro SG92R Servos
- All parts plug directly into microcontroller
- Everything is powered by the USB port



Testing and Demonstration



- Safety first!
- Manual calibration
- Keyboard controls

DON'T TRY THIS
AT HOME, KIDS