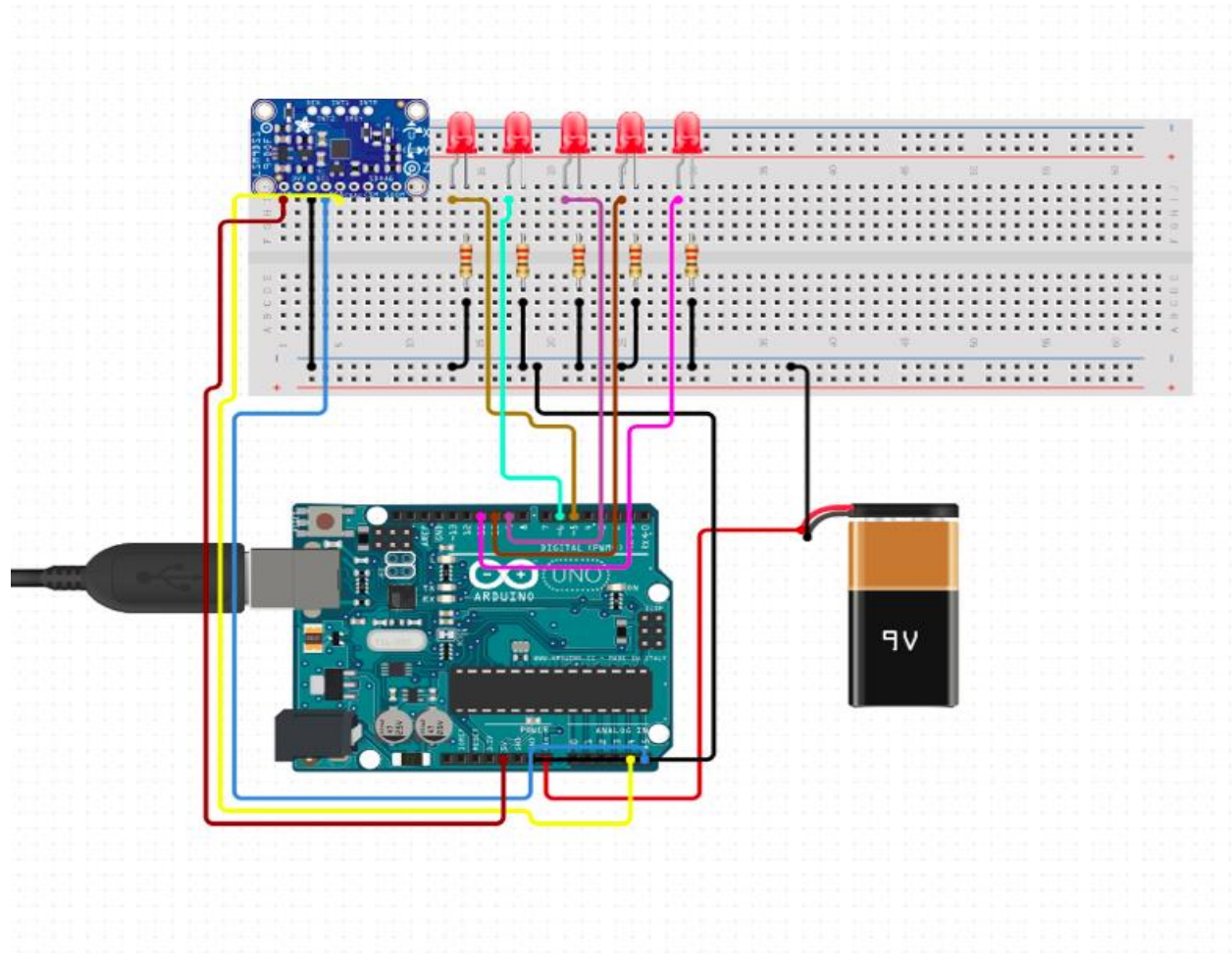# Persistence of Vision Wand

Introduction:

Persistence of vision (POV) is a property of the visual system that combines individual visual cues into smooth and seamless images. For this project, our group will develop and implement a POV system powered by a microcontroller that can display words and possibly emoji.

Design:

Using 9V DC power as our power supply, and connect to microcontroller Arduino Uno, this microcontroller will provide two output voltages, 3.3V and 5V. In this project, plan use 5V as power supply to 7 LEDs, and each LED connect with 2K ohms resistor. The accelerometer used to determine the direction when swing wand, and control speed.