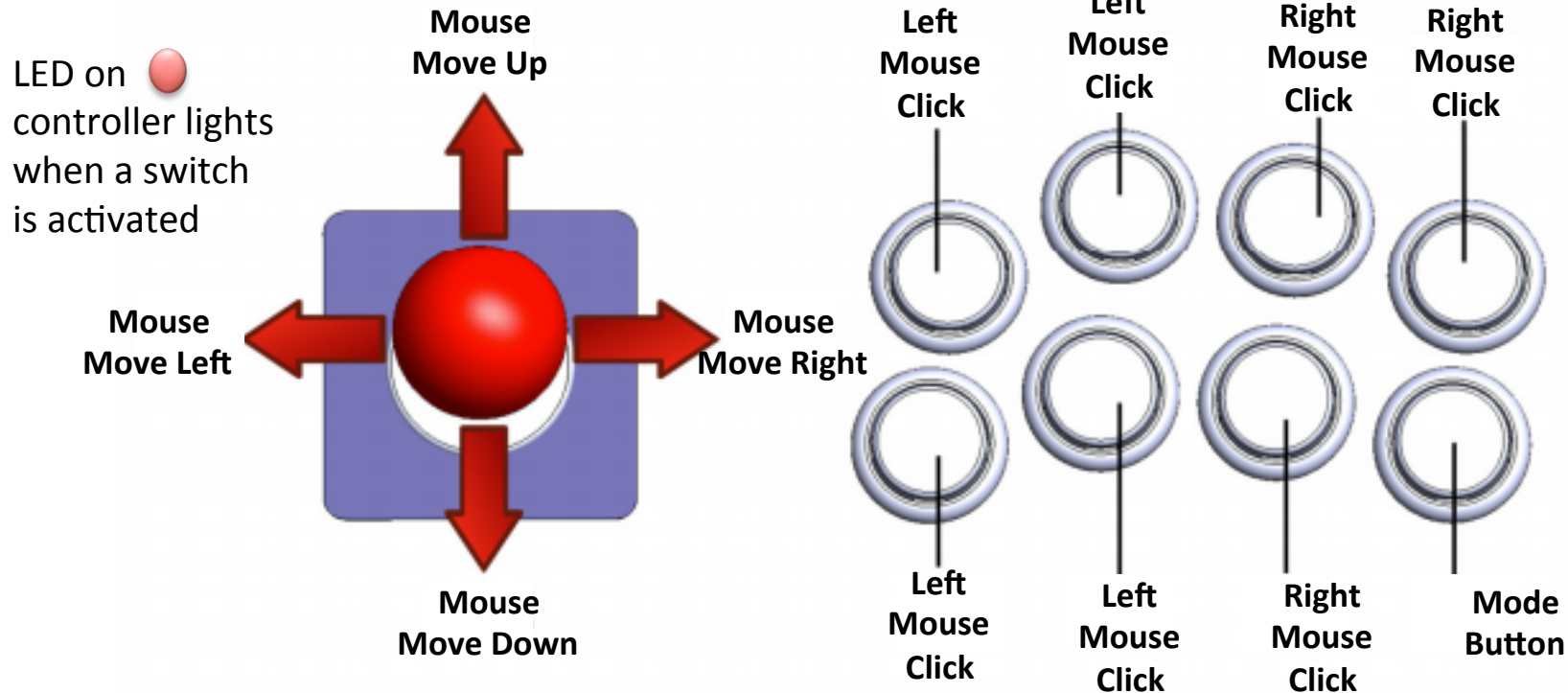# Quick Start Guide for using the Cadeduino (USB) Controller

- Make sure to always choose USB Type to be "keyboard + Mouse + Joystick" when reprogramming the Teensy 2.0

- The Cade-Shield or Cadeduino comes with 6 built in peripheral modes
  - Get to Hybrid Mouse/Keyboard Mode by holding Joystick Up while plugging in controller for the first time into USB port
  - Starts in Gamepad mode automatically when plugging into USB port

- LED Provides Status of Controller
  - LED blinks when changing modes (blinks the mode number)
  - LED blinks once after plugging in USB port initially
  - LED blinks when joystick or buttons are triggered

- To use Cadeduino with Android Tablets you need an OTG USB cable

- BATTERIES ARE NOT NEEDED (operates from USB power)

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Hybrid Mouse/Keyboard mode is enabled by holding joystick in the up position while plugging in the USB cable

Edit the Cade-Shield Sketch to customize these buttons

LED on controller lights when a switch is activated

Mouse Move Up

Mouse Move Left

Mouse Move Right

Mouse Move Down

Left Mouse Click

Left Mouse Click

Right Mouse Click

Right Mouse Click

Left Mouse Click

Left Mouse Click

Right Mouse Click

Mode Button

Mode 1 – Mouse Mode

Press Mode button to change mode anytime. LED indicates mode by blinking mode (1,2,or3)

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Hybrid Mouse/Keyboard mode is enabled by holding joystick in the up position while plugging in the USB cable
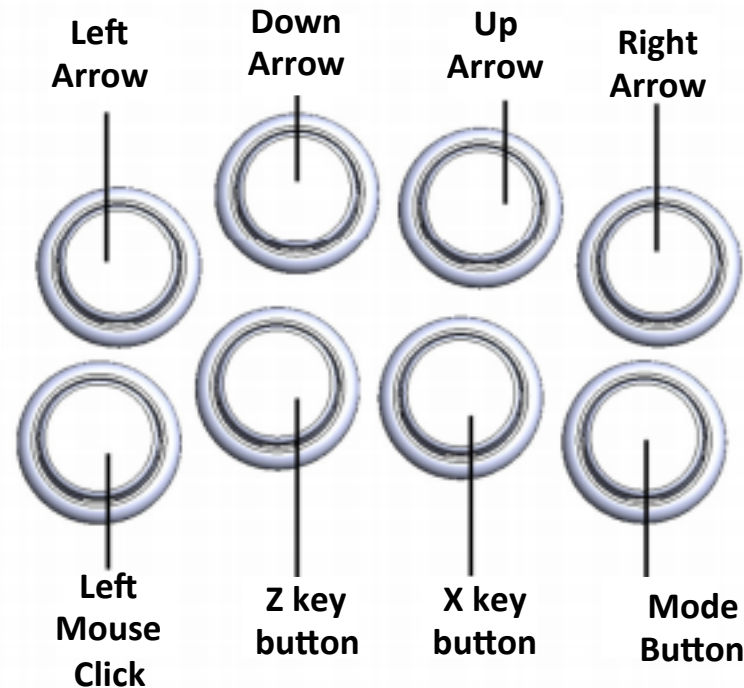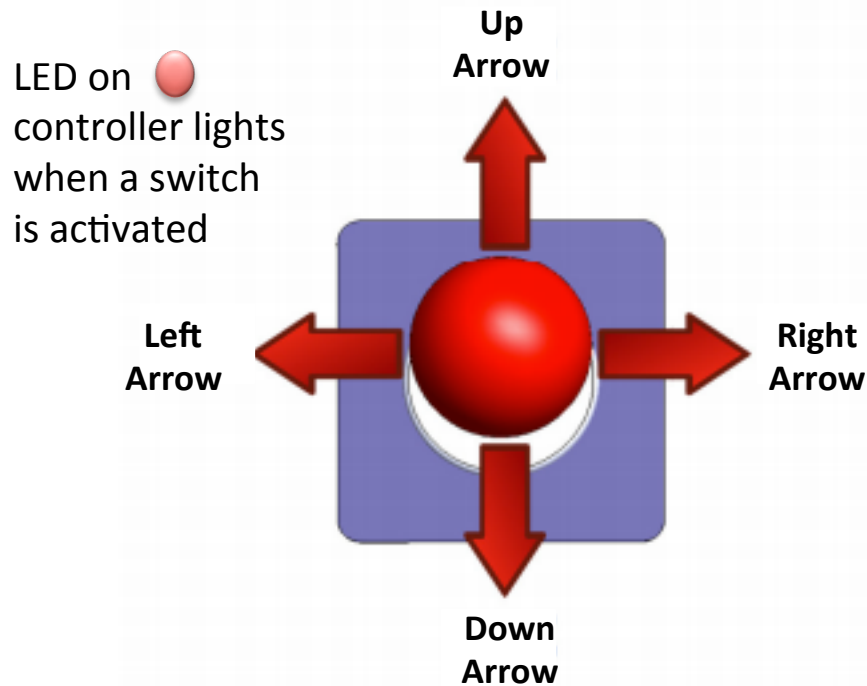
Edit the Cade-Shield Sketch to customize these buttons

LED on controller lights when a switch is activated

Up Arrow

Left Arrow

Right Arrow

Down Arrow

Left Arrow

Down Arrow

Up Arrow

Right Arrow

Left Mouse Click

Z key button

X key button

Mode Button

Mode 2 – Keyboard Mode

Press Mode button to change mode anytime. LED indicates mode by blinking mode (1,2,or3)

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Hybrid Mouse/Keyboard mode is enabled by holding joystick in the up position while plugging in the USB cable

Mode 3 to 3

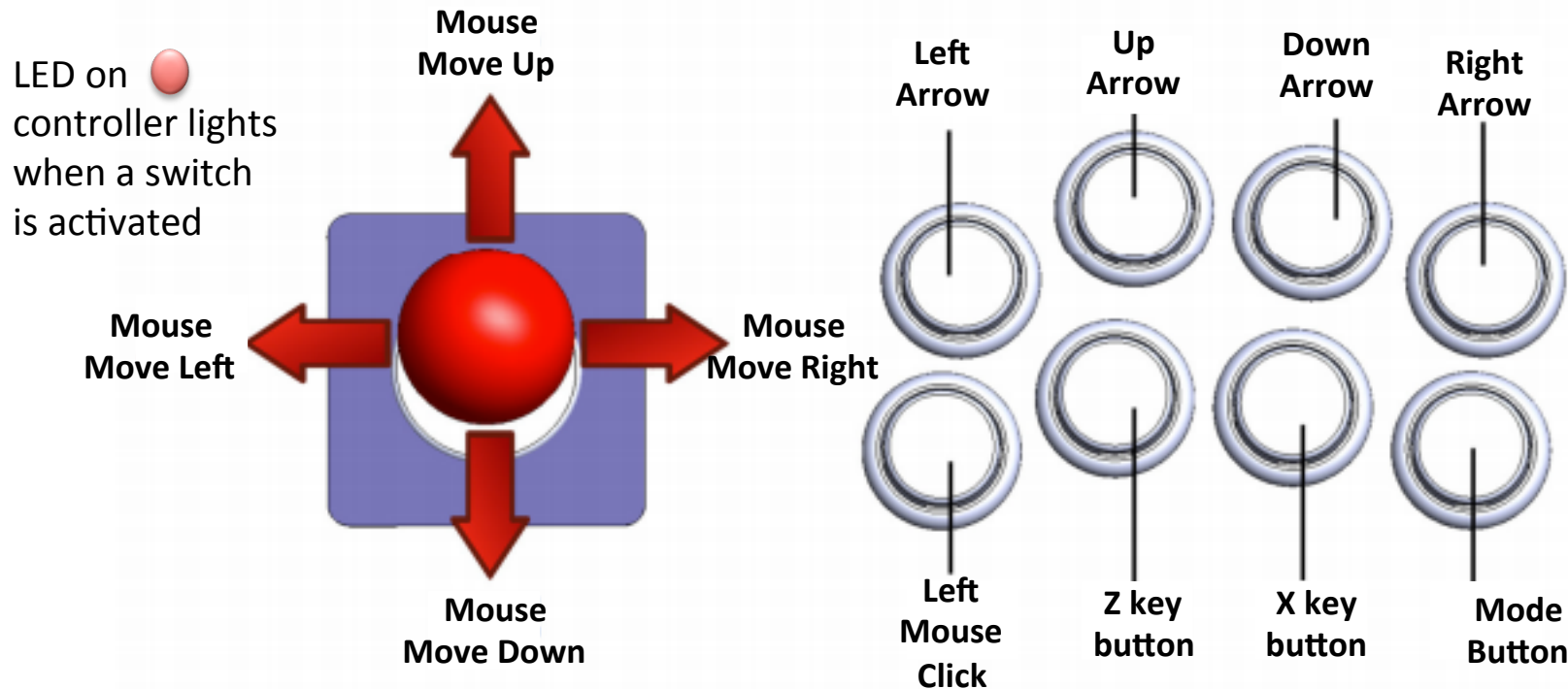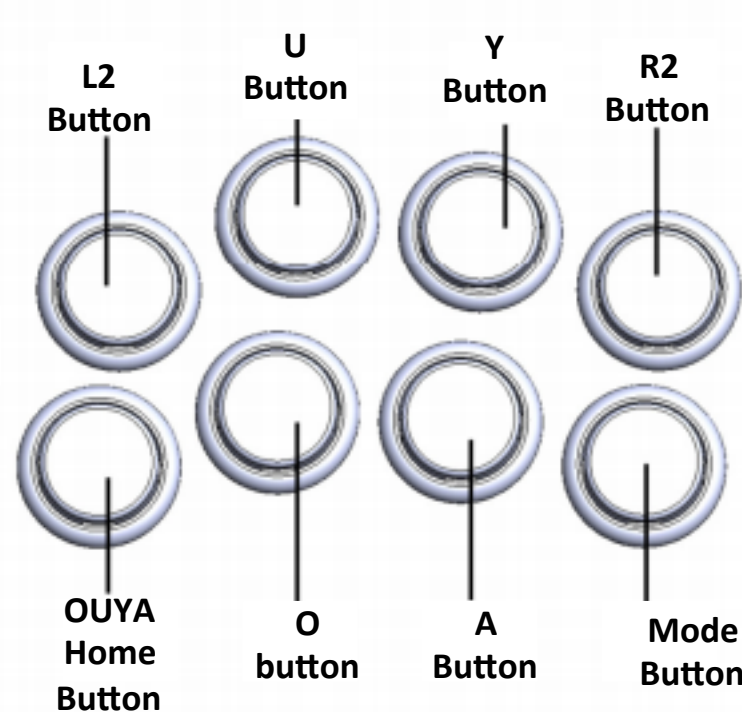Edit the Cade-Shield Sketch to customize these buttons

LED on controller lights when a switch is activated

Mouse Move Up

Mouse Move Left

Mouse Move Right

Mouse Move Down

Left Arrow

Up Arrow

Down Arrow

Right Arrow

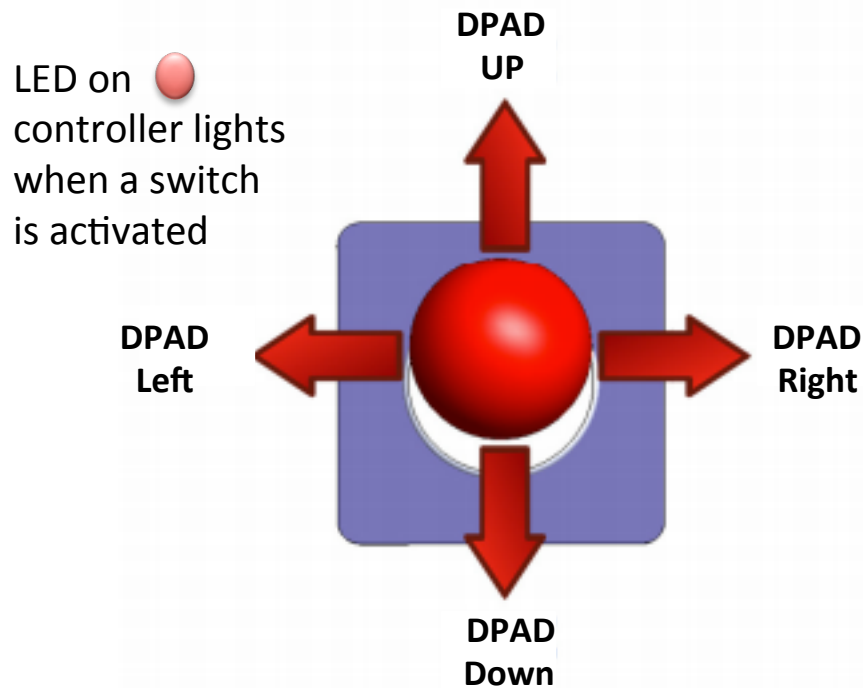**Left Mouse Click**

Z key button

X key button

Mode Button

Mode 3 – Hybrid Mouse/Keyboard Mode

Press Mode button to change mode anytime. LED indicates mode by blinking mode (1,2,or3)

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Gamepad mode is enabled by default when plugging in the USB cable

Edit the Cade-Shield Sketch to customize these buttons

LED on controller lights when a switch is activated

DPAD UP

DPAD Left

DPAD Right

DPAD Down

L2 Button

U Button

Y Button

R2 Button

OUYA Home Button

O button

A Button

Mode Button

Mode 1 – DPAD Mode

Press Mode button to change mode anytime. LED indicates mode by blinking mode (1,2,or3)

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Gamepad mode is enabled by default when plugging in the USB cable

Edit the Cade-Shield Sketch to customize these buttons

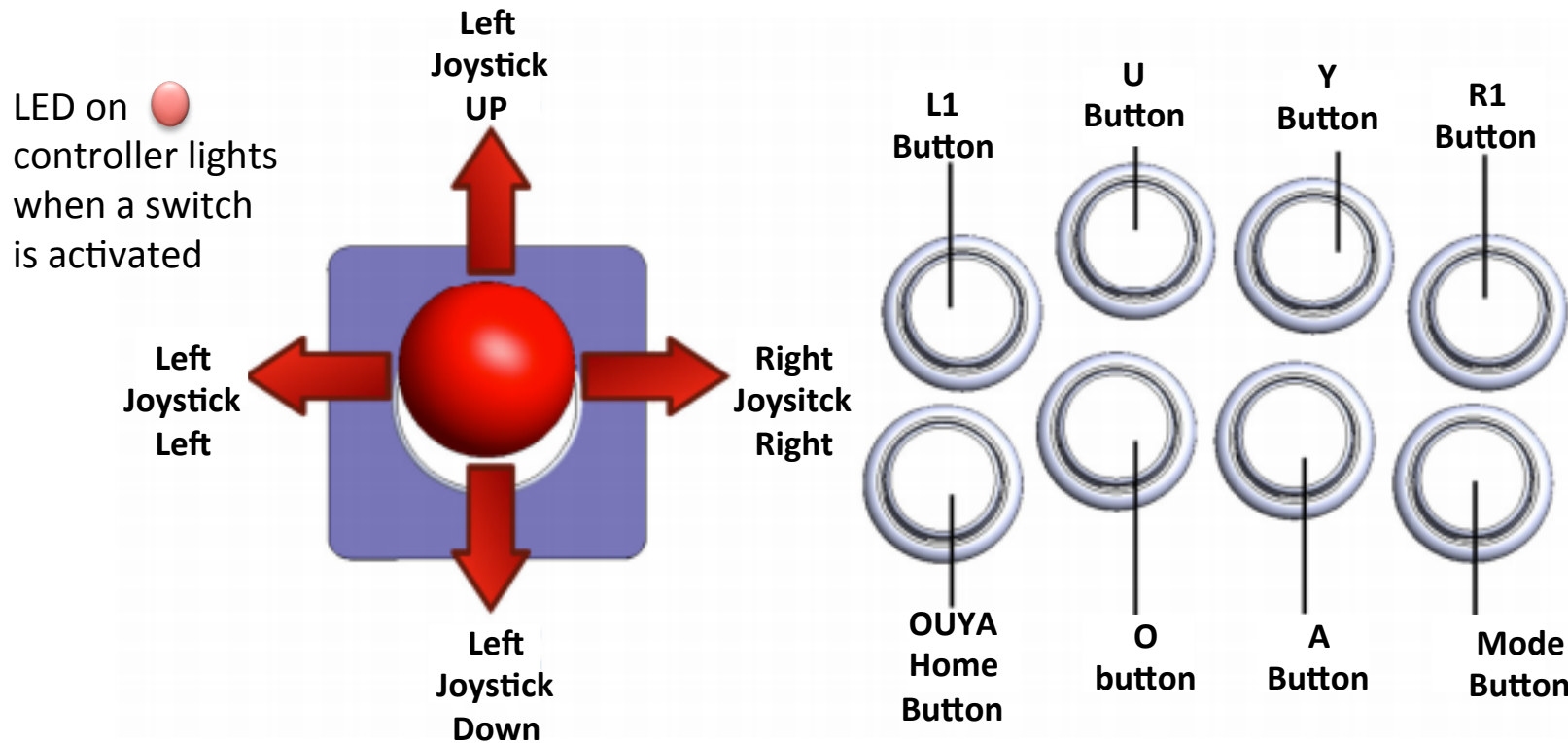LED on controller lights when a switch is activated

Left Joystick UP

Left Joystick Left

Right Joysitck Right

Left Joystick Down

L1 Button

U Button

Y Button

R1 Button

OUYA Home Button
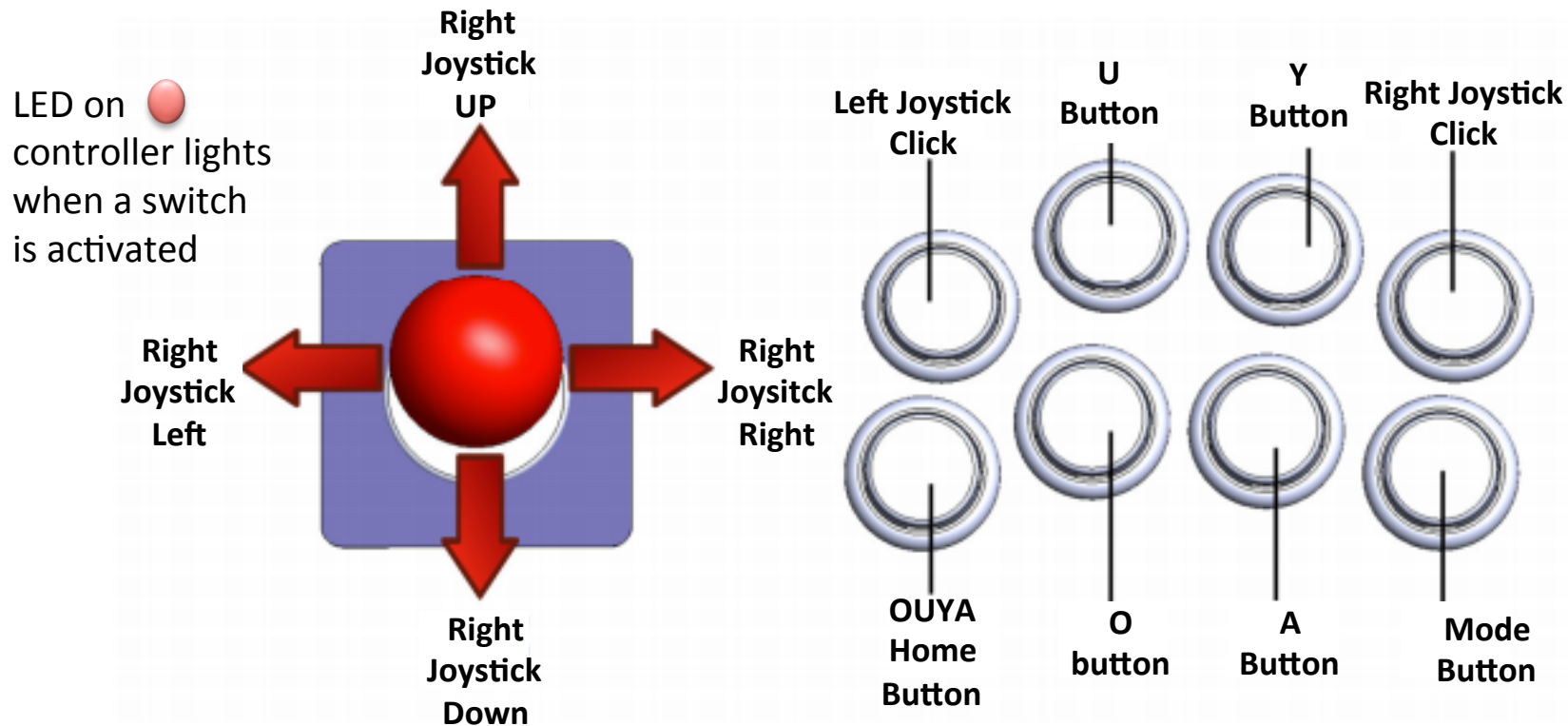
O button

A Button

Mode Button

Mode 2 – Left Joystick Mode (Simulated from Digital)

Press Mode button to change mode anytime. LED indicates mode by blinking mode (1,2,or3)

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Gamepad mode is enabled
by default when plugging
in the USB cable

Edit the Cade-Shield
Sketch to customize these
buttons

**Right
Joystick
UP**

LED on 🔴
controller lights
when a switch
is activated

**Left Joystick
Click**

**U
Button**

**Y
Button**

**Right Joystick
Click**

**Right
Joystick
Left**

**Right
Joysitck
Right**

**Right
Joystick
Down**

**OUYA
Home
Button**

**O
button**

**A
Button**

**Mode
Button**

Mode 3 – Right Joystick Mode
(Simulated from Digital)

Press Mode button to
change mode anytime.
LED indicates mode by
blinking mode (1,2,or3)

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