

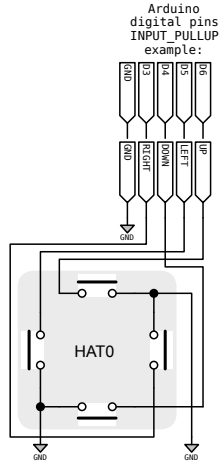
MegaJoystick Arduino library - Button and HAT switch input configurations

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HAT Switches

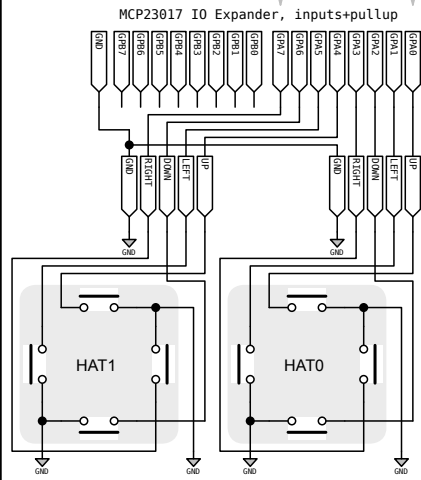
Single HAT switch

```
Joystick.setHatSwitch(HATno,BtnUp,BtnL,BtnDwn,BtnR);  
Joystick.setHatSwitch(0,6,5,4,3);
```



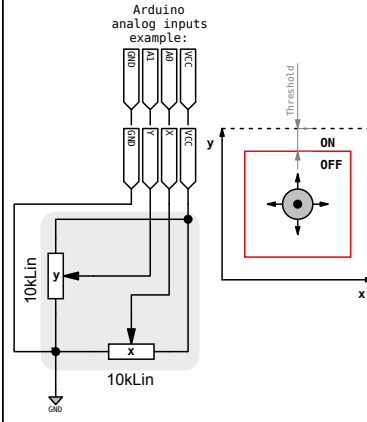
Two HAT switches, read using an IO expander

```
Joystick.set2HatSwitch(HATno,uint8_t GPA);  
Joystick.set2HatSwitch(0,readMCP23017(SlaveAddress));
```



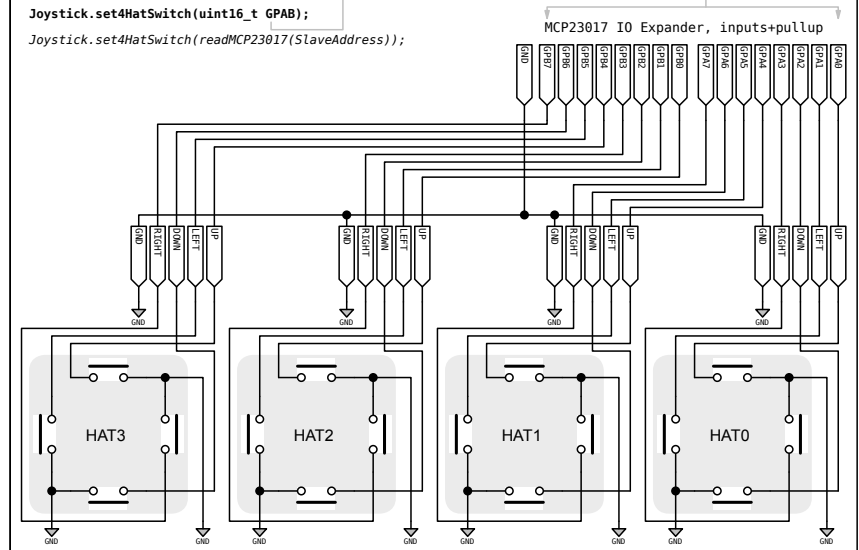
Analog joystick used as HAT switch

```
Joystick.setHatSwitchAnalog(HATno,AnalogX,AnalogY,Thres);  
Joystick.setHatSwitchAnalog(0,0,1,8);
```



Four HAT switches, read using an IO expander

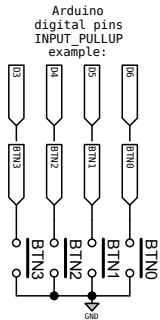
```
Joystick.set4HatSwitch(uint16_t GPAB);  
Joystick.set4HatSwitch(readMCP23017(SlaveAddress));
```



Buttons

Single button

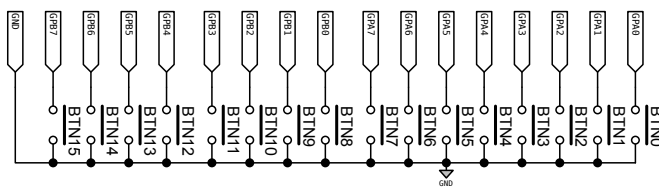
```
Joystick.setButton(BtnNo,State);  
Joystick.setButton(2,1); //press button 2  
Joystick.setButton(2,0); //release button 2  
Joystick.pressButton(BtnNo);  
Joystick.pressButton(5); //press button 5  
Joystick.releaseButton(BtnNo);  
Joystick.setButton(5); //release button 2
```



Bank of 16 buttons, 128 buttons divided into 16 8bit banks

```
Joystick.setButtonBank16(BankNo,ButtonStates); //write two button banks at once  
/* Read 16 input states from an MCP23017 and pass them  
to button banks 0 and 1 (buttons 0-15)  
(requires MCP23017 library)*/  
Joystick.setButtonBank16(0,readMCP23017(slaveAddress));
```

example: using 16bit MCP23017 IO Expander, ports set to inputs+pullup



Bank of 8 buttons, 128 buttons divided into 16 8bit banks

```
Joystick.setButtonBank8(BankNo,ButtonStates); //write two button banks at once  
/* Read 8 input states from a PCF8574 and pass them  
to button bank 0 (buttons 0-7)  
(requires PCF8574 library)*/  
Joystick.setButtonBank8(0,readPCF8574(slaveAddress));
```

example: using 8bit PCF8574 IO Expander, ports set to inputs+pullup

