## projMidiExcerpt.py

```
# Example engaging class projects
# Brygg Ullmer, Clemson University
# Begun 2025-02-20
import sys, os, traceback
import spectra, pygame
from enoMidiController import *
from projBase
                     import *
                     import *
from projPgzBase
class ProjMidi(ProjectsPgzBase):
                 = None #enodia midi controller
 def __init__(self, **kwargs):
   self.__dict__.update(kwargs) #allow class fields to be passed in constructor
   super().__init__()
   self.initSliders()
   self.midiClearLights()
   self.midiLightInit()
 def err(self, msg): print("ProjMidi error:", msg); traceback.print_exc()
 def msg(self, msg): print("ProjMidi msg:",
 def midiClearLights(self):
   for i in range(64): self.emc.midiOut.note_on(i, 0, 0)
 def midiLightInit(self):
   colors = [3,4,5,13,21,29,37,45,53,61]
   for i in colors: self.emc.midiOut.note_on(i, i, 6)
   #for i in range(12): self.emc.midiOut.note_on(i, i, 6)
 def midiCB(self, control, arg):
   print("hello class")
   try:
     if self.verbose: print("cpgzm midicb: ", str(control), str(arg))
     if control[0] == 's': #slider
       which Slider = int(control[-1]) - 1 \#control is \#s1\#, \#s2\#, etc.
       whichVal
                  = int(arg)
       mappedVal
                  = self.mapSliderVal(whichSlider, whichVal)
       print("slider", str(whichSlider), str(whichVal))
       self.sliderValDict[whichSlider] = self.sliderFullrangeV - whichVal
       #self.sliderValDict[whichSlider] = mappedVal
       #self.assignColumnIdx(whichSlider, mappedVal)
     else:
       print(control, arg)
       if control=="a8" and arg == 127: print("dance")
       if control=="a7" and arg == 127: print("p1 dances")
       if control=="a6" and arg == 127: print("p0 dances")
   except: self.err("midiCb " + str([control, arg]))
  def initSliders(self):
  def drawSliders(self):
  def drawSlider(self, whichSlider):
  def setAkaiColorIdxCoord(self, colorIdx, x, y, colorBright=6): ...
  def mapAkaiCoord(self, x, y): ...
  def mapSliderVal(self, whichCol, whichSliderVal): ...
  def updateMatrixColors(self): ...
  def draw(self, screen):
                               self.drawSliders()
  def on_mouse_down(self, pos): pass #cpgz.on_mouse_down(pos)
  def update(self):
                               self.emc.pollMidi()
### end ###
```

## projMidiExcerpt.py

```
print("slider", str(whichSlider), str(whichVal))
                                                           #H
       self.sliderValDict[whichSlider] = self.sliderFullrangeV - whichVal
       #self.sliderValDict[whichSlider] = mappedVal
       #self.assignColumnIdx(whichSlider, mappedVal)
     else:
       print(control, arg)
       if control=="a8" and arg == 127: print("dance")
                                                           # I
       if control=="a7" and arg == 127: print("p1 dances")
       if control=="a6" and arg == 127: print("p0 dances")
   except: self.err("midiCb " + str([control, arg]))
 def initSliders(self):
 def drawSliders(self):
 def drawSlider(self, whichSlider):
 def setAkaiColorIdxCoord(self, colorIdx, x, y, colorBright=6): ...
 def mapAkaiCoord(self, x, y): ...
 def mapSliderVal(self, whichCol, whichSliderVal): ...
 def updateMatrixColors(self): ...
 def draw(self, screen):
                               self.drawSliders()
 def on_mouse_down(self, pos):    pass #cpgz.on_mouse_down(pos)
 def update(self):
                               self.emc.pollMidi()
### end ###
```