tileDraw10.py

```
1: # Fragment/split an image into tiles (initially, 512x512)
  2: # Brygg Ullmer, Clemson University
  3: # Begun 2023-03-22
  4:
  5: import sys
  6: sys.path.append('c:/git/pgzero-xi')
  7 •
  8: from enoContentResolver import *
  9: from enoTiledImg
                             import *
 10: from enoTiledImgNav
                             import *
 11:
 12: WIDTH, HEIGHT=1920, 1080
 13: eyu = 'https://enodia.computing.clemson.edu/'
 14: #ecr = enoContentResolver(eyu)
 17: #addrL = ecResolv.getFirstContentMatchLocal('SC')
 18:
 19: eti
            = enoTiledImg()
 20: etinav = enoTiledImgNav(eti)
 21: \#eti.imgPos = (-10000, 0)
 22: multiresLevel = 2
 24:
 25: eti.adjustWindowPlacement(WIDTH, HEIGHT)
 27: tmdn = 'resources/ecce001/loc/maps/sc/1970'
 28: eti.loadTmap(tmdn, multiresLevel)
 29: etinav.constructIndexGui()
 30:
 33: def draw():
 34: global eti, c1
 35:
      screen.clear()
 36:
      eti.draw(screen)
 37: etinav.draw(screen)
 38:
 41: def on key down(key): etinav.on key down(key)
 42: def on key up(key):
                             etinav.on key up(key)
 43: def on mouse down(pos): etinav.on mouse down(pos)
 44: def on mouse move(rel, pos): etinav.on mouse move(rel, pos)
 45: def on mouse up():
                             etinav.on mouse up()
 46: def update():
                             etinav.update()
   : def on tag enters(tagId):
                                      etinav.on tag enters(tagId)
   : def on tag exits(tagId):
                                     etinav.on tag exits(tagId)
   : def on magn moves (magnVal):
                                    etinav.on magn moves(magnVal)
   : def on cap touch(capTouchId): etinav.on cap touch(capTouchId)
   : def on cap release(capTouchId): etinav.on cap release(capTouchId)
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15:16:08
                                    enoTiledImg.py
 23: class enoTiledImg:
       PIL.Image.MAX IMAGE PIXELS = 21000
                                            11000
 25:
 27:
                          = (512, 512)
       tileDim
 54:
       animTween = 'accel decel'
211:
      def animBottom(self):
212:
       self.animPrefatory()
213:
         isy
                         = self.getImageSize()[1]
214:
         x, y
                         = self.imgPos;
```

animate(self.imgActor, pos=self.imgPos, duration=self.animDuration,

tween=self.animTween, on finished=self.animationFinishedCB)

self.animationActive = True 220:

self.imgPos

y = self.screenDim[1] - isy self.lastImgPos = self.imgPos

= (x, y)

215:

216. 217:

218:

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```
18: class enoTiledImgNav:
 21:
       shiftPressed
                       = None
 22:
       cursorsPressed = None
 23:
       mouseDown
                       = None
                       = 768
 25:
       bignudge
 26:
       smallnudge
                       = 50
 80:
       def
             _init__(self, eti):
 81:
         self.eti
                               = eti
82:
         self.shiftPressed
                               = False
83:
         self.mouseDown
                               = False
244:
       def on mouse down(self, pos):
245:
         self.mouseDown = True #pan
250:
         for actorName in self.indexFnActors:
251:
           a = self.indexFnActors[actorName]
252:
           if a.collidepoint(pos):
             print("touch detected:", actorName)
253:
208:
       def on key down(self, key):
209:
210:
         if key == keys.LSHIFT or key == keys.RSHIFT:
211:
           self.shiftPressed = True
212:
213:
         if self.shiftPressed:
214:
           nudge = self.smallnudge
           if key is keys.LEFT: self.eti.shiftImg(-nudge, 0); self.cursorsPressed['L'] = True if key is keys.RIGHT: self.eti.shiftImg( nudge, 0); self.cursorsPressed['R'] = True
215:
216:
                                   self.eti.shiftImg(0, -nudge); self.cursorsPressed['U'] = True
217:
           if key is keys.UP:
                                   self.eti.shiftImg(0, nudge); self.cursorsPressed['D'] = True
218:
           if key is keys.DOWN:
219.
         else:
220:
           nudge = self.bignudge
221:
           if key is keys.LEFT: self.eti.animImg(-nudge, 0);
                                                                    self.cursorsPressed['L'] = True
           if key is keys.RIGHT: self.eti.animImg( nudge, 0);
                                                                    self.cursorsPressed['R'] = True
222:
                                                                    self.cursorsPressed['U'] = True
223:
           if key is keys.UP:
                                   self.eti.animImg(0, -nudge);
224:
                                   self.eti.animImg(0,
                                                                    self.cursorsPressed['D'] = True
           if key is keys.DOWN:
                                                          nudge);
226:
         if key == keys.T: self.eti.animTop()
227:
         if key == keys.B: self.eti.animBottom()
228:
         if key == keys.L: self.eti.animLeft()
         if key == keys.R: self.eti.animRight()
229:
233:
       def on key up(self, key):
         if key == keys.LSHIFT or key == keys.RSHIFT:
234:
235:
           self.shiftPressed = False
275:
       def update(self):
276:
         nudge = self.smallnudge
277:
278:
         if self.eti.animationRunning: self.eti.animUpdateImg() #if animation underway
279:
280:
         if self.isCursorPressed() and self.shiftPressed:
           if self.cursorsPressed['L']: self.eti.shiftImg(-nudge, 0)
281:
           if self.cursorsPressed['R']: self.eti.shiftImg( nudge, 0)
282:
           if self.cursorsPressed['U']: self.eti.shiftImg(0, -nudge)
283:
           if self.cursorsPressed['D']: self.eti.shiftImg(0, nudge)
284:
```