Sandbox | CMU CS Academy

```
#background
 2 Rect(0, 0, 400, 400, fill='skyblue')
    #obstacle
 4 Rect(0, 340, 400, 400)
 5
   Rect(340, 240, 90, 400)
 7
    obstacle = Rect(220, 325,50, 20, fill=gradient('black', 'black', 'brown', start='bottom'))
 8
 9
10 #direction
11 Rect(140, 285,45, 30, fill='grey')
12 Line(162, 315, 162, 340)
13 Line(145, 310, 180,290, arrowEnd=True)
14
15 #zombies
16 def stickZombies(zombies, start):
17
18
        for i in range (4):
             zombies.add(Line(24+15*i, 265, 24+15*i, 315, fill='black'),
19
             Circle(24+15*i, 265, 14),
20
             Line(24+15*i, 315, 42+15*i,340),
21
             Line(24+15*i, 315, 10+15*i, 340),
22
             Line(24+15*i, 293, 49+15*i, 281),
Line(24+15*i, 296, 50+15*i , 286))
23
24
25
26 runningZombies=Group(Label('Agh! Brains...', 55, 245))
   stickZombies(runningZombies, 24)
27
28
29
30
31 #person
32 def personRunning(person, start):
        person.add(Line(start, 265, start, 315, fill='black'),
34
             Circle(start, 265, 14),
             Line(start, 315, 150, 340),
Line(start, 315, 118, 340),
Line(start, 293, 160, 281),
35
36
37
             Line(start, 296, 163, 286))
38
39
40
41 runPerson=Group()
42
    personRunning(runPerson, 130)
43
44
45
46
   #controlling the movement of zombies and person
47
   def onStep():
48
        for i in runningZombies.children:
49
             i.centerX+=1
50
             if runningZombies.centerX>=310:
51
                 runningZombies.centerX=310
52
53
        runPerson.centerX+=2
54
55
        if runPerson.centerX>=230:
56
             runPerson.centerY-=2
57
58
        if runPerson.centerY<=200:</pre>
59
             runPerson.centerY=200
```