

```
import pygame, random
```

```
#variable definitions#
```

```
fps = 120 # defining the framerate of the game (increasing will cause game to run faster)
```

```
clock, gameRun, prevTile = pygame.time.Clock(), True, -1
```

```
def reset(): #function that resets the game to start
```

```
    global gameSpeed, gameOver, tileList, points
```

```
    gameSpeed, gameOver, tileList, points = 2, False, [], 0
```

```
global gameSpeed, gameOver, tileList, points
```

```
reset()
```

```
#Screen Resolution#
```

```
sWidth, sHeight = 540, 960
```

```
#Inits#
```

```
pygame.init()
```

```
screen = pygame.display.set_mode((sWidth, sHeight))
```

```
scoreFont = pygame.font.Font("scoreFont.ttf", 100)
```

```
#Classes#
```

```
class Tile(): #class that creates a tile and all of its attributes
```

```
    def __init__(self):
```

```
        global prevTile
```

```
        self.pos = -240 #tile pos
```

```
        col = prevTile
```

```
        while col == prevTile:
```

```
            col = random.randint(0, 3) #randomly selects the collumn for the tile
```

```
        prevTile = col
```

```
        self.col = col #attribute storing the collumn location
```

```
        self.isClicked = False
```

```
        self.alpha = 0 #transparency of the tile
```

```
        self.trash = False
```

```
#Functions#
```

```
def renderBackG(): #renders the white background including the division lines
```

```
    pygame.draw.rect(screen, (255, 255, 255), (0, 0, 540, 960))
```

```
    for i in range(1, 4):
```

```
        pygame.draw.rect(screen, (100, 100, 100), (135*i, 0, 1, 960))
```

```
def delTiles(): #deletes any tiles that have already been completed and are off screen
```

```
    global tileList
```

```
    for i in range(len(tileList) - 1):
```

```
        if tileList[i].trash:
```

```
            del tileList[i]
```

```
def tileLoop(): #controls all the existing tiles
```

```
    global tileList, gameOver
```

```
    for i in range(len(tileList)): #traversing the list of all tiles
```

```
        if tileList[i].isClicked and tileList[i].alpha < 120:
```

```
            tileList[i].alpha += 5 #making the tile more transparent if it has been clicked
```

```
        pygame.draw.rect(screen, (tileList[i].alpha, tileList[i].alpha, tileList[i].alpha),
```

```
        (tileList[i].col*135, tileList[i].pos, 135, 240)) #draws the tile
```

```
        tileList[i].pos += gameSpeed
```

```
        if tileList[i].pos > 960:
```

```
            tileList[i].trash = True #makrs the tile to be deleted
```

```
        if tileList[i].pos > 840 and not tileList[i].isClicked:
```

```
            gameOver = True #calls the game to be reset
```

```
def renderTiles(): #creates each new tile
```

```
global tileList
if len(tileList) == 0:
    tileList.append(Tile()) #creates a new instance of the Tile class and adds it the tileList
elif tileList[len(tileList) - 1].pos >= 0:
    tileList.append(Tile())
tileLoop()
delTiles() #removes all unneeded tiles

def keyLoop(keys, deathFlag): #checks if the tile is within bounds of the selection area and adds a
point if so.
    global tileList, points
    colFlag = False
    for i in range(len(keys)):
        if keys[i]:
            for j in range(len(tileList)):
                if tileList[j].col == i and tileList[j].pos > 580 and tileList[j].pos < 840: #checks
pos of tile is within parameters
                    if tileList[j].isClicked == False:
                        points += 1
                        tileList[j].isClicked = True #sets itClicked attribute to true of tile
                        deathFlag, colFlag = False, False
                        break
            else:
                deathFlag, colFlag = True, i*135
    return deathFlag, colFlag

def checkKeys(): #detects keyboard presses
    global tileList, gameOver, points
    deathFlag = False
    pressed = pygame.key.get_pressed() #gets list of all pressed keys
    keys = [pressed[pygame.K_a], pressed[pygame.K_s],
            pressed[pygame.K_k], pressed[pygame.K_l]]
    deathFlag, colFlag = keyLoop(keys, deathFlag) #sends keys pressed to keyLoop
    if deathFlag:
        gameOver = True
        pygame.draw.rect(screen, (255, 0, 0), (colFlag, 0, 135, 960))

def renderScore(): #renders the score number at top of screen
    global gameSpeed
    score = scoreFont.render(str(points), True, (34, 136, 182)) #renders the score with the scoreFont
from the points var
    scoreRect = score.get_rect() #creates, centers, and blits the score rectangle surface onto the
screen
    scoreRect.center = (270, 100)
    screen.blit(score, scoreRect)
    if points <= 100:
        gameSpeed = (points / 20) + 3

def renderSelector(): #renders the selection bar at the bottom of the screen
    pygame.draw.rect(screen, (34, 136, 182), (0, 820, 540, 20))

#Main Loop#
while gameRun:
    clock.tick(fps) #makes sure that the game runs at the specified framerate by delaying
    for event in pygame.event.get():
        if event.type == pygame.QUIT: #checks if the x has been pressed
            gameRun = False
    renderBackG()
```

```
renderTiles()
checkKeys()
renderSelector()
renderScore()
pygame.display.flip()
if gameOver:
    reset() #calls reset to reset the game back the the beginning

#Close Game#
pygame.quit()
```