```
import pygame
import random
import math
# Initialize Pygame and mixer
pygame.init()
pygame.mixer.init()
# Set up the display
WIDTH, HEIGHT = 800, 600
screen = pygame.display.set_mode((WIDTH, HEIGHT))
pygame.display.set_caption("Psychedelic Soundscape Explorer")
# Colors
BLACK = (0, 0, 0)
# Player
player_pos = [WIDTH // 2, HEIGHT // 2]
player_radius = 20
# Sound zones
sound_zones = []
for _ in range(5):
  sound_zones.append(
    [
       random.randint(0, WIDTH),
```

```
random.randint(0, HEIGHT),
       random.randint(50, 150),
    ]
  )
# Create sounds
sounds = [pygame.mixer.Sound(f"sound{i}.wav") for i in range(1, 6)]
# Main game loop
running = True
clock = pygame.time.Clock()
while running:
  for event in pygame.event.get():
    if event.type == pygame.QUIT:
       running = False
  # Move player
  keys = pygame.key.get_pressed()
  if keys[pygame.K_LEFT]:
    player_pos[0] -= 5
  if keys[pygame.K_RIGHT]:
     player_pos[0] += 5
  if keys[pygame.K_UP]:
    player_pos[1] -= 5
  if keys[pygame.K_DOWN]:
```

```
player_pos[1] += 5
# Clear the screen
screen.fill(BLACK)
# Draw and play sounds
for i, (x, y, radius) in enumerate(sound_zones):
  distance = math.sqrt(
     (player_pos[0] - x) ** 2 + (player_pos[1] - y) ** 2
  )
  if distance < radius:
     intensity = 1 - (distance / radius)
     sounds[i].set_volume(intensity)
     sounds[i].play(-1)
     # Create trippy color based on distance and sound
     r = int(255 * math.sin(intensity * math.pi / 2))
     g = int(255 * math.cos(intensity * math.pi / 2))
     b = int(255 * (1 - intensity))
     pygame.draw.circle(
       screen, (r, g, b), (x, y), int(radius * intensity), 2
     )
  else:
     sounds[i].stop()
```

```
# Draw player
pygame.draw.circle(
    screen, (255, 255, 255), player_pos, player_radius
)

pygame.display.flip()
clock.tick(60)

pygame.quit()
```