

Priorities:

- Get Menu Image
- Gather Sprites
- Get Level 1 (and secret pipe?) Background Image
- Gather Sounds
- Draw Buttons where Menu Image indicates
- Make buttons interactive (temporarily shows that it can be clicked)
- Set up Timer for frames
- Create arrays for sprite animation
- *****Finite State Machine(?)*****
- Implement play button to run_game()
- Draw all starting sprites and background image to canvas (where menu displayed them)
- Set up Controls for Mario and background image
 - a. if mario moving right and mario.centerx == screen.centerx, move the background image left
 - b. if mario moving left, stop the background image and move mario
 - c. if bg_image.rect.right == screen.rect.right, stop moving background image and move mario
- Set up spawn locations and frames of enemies
 - a. for example, goomba spawns when bg_image.x == some magical x value
 - b. the same will apply for all other enemies
 - c. hoping for a better solution
- Set up spawn locations of coins, breakable blocks and 'random' boxes
 - a. probably implement with magic numbers (like previous task)
- Set up collision detection (sprite instead of rect if possible within time frame)
 - a. if pygame.collidect(mario, enemy): if mario.bottom == enemy.top: hurt enemy
elif !mario.adult: mario.death() else: mario.adult = FALSE
 - b. if pygame.collidect(mario, coin) or pygame.collidect(mario, coin_block):
++coin_score
 - c. if pygame.collidect(mario, breakable_block): if not mario.adult: bounce off of
block else: break the block
 - d. if pygame.collidect(mario, mystery_block): if not mystery_block.star:
mushroom.spawn() else: star.spawn()
- Set up level completion
 - a. animate level transition
 - b. increment level
 - c. draw new map

Most of this should be easy to implement if our previous projects are well-written.