

GameController background_elements -> list of background elements plants -> list of plants entities zombies -> list of zombie entities projectiles -> list of projectile entities ui_elements -> list of User Interface elements add_objects() -> make entities and add them to cooresponding list

screen -> x/y coordinates? clock -> float dtime -> frames running -> boolean init_pygame() -> initialize pygame and all cooresponding elements handle_input() -> handle keys pressed on keyboard bbox_to_screen(bbox) -> draw_entity(entity) -> render() -> render all entities on screen run() -> run all checks and windows

GameWindow

BoundingBox

position -> x,y coordinates

width -> int

height -> int

overlaps(other) ->

handle_input() -> handle keys pressed on keyboard