```
Game_Object
 # sf::Vector2f position
 # int width
 # int height
 # sf::Sprite sprite
 + Game_Object(float
  x, float y, int w,
  int h)
  + virtual
               -Game_Object
 ()=default
 + virtual void update()
  + virtual void render
 (sf::RenderWindow &window,
 Camera &camera)
+ virtual sf::FloatRect
  get
       rect() const
  + sf::Vector2f get_position
 () const
                   Δ
          Moving_Object
# bool jumping
# sf::Vector2f velocity
# sf::Vector2f starting
 position
# bool alive
# sf::Clock animation
 timer
# int animation_
                     frame
# Animation_State current
 animation state
# int animation
                     frame
                               rate
+ Moving_Object(float
x, float y, int w, int h)
+ virtual void update
(float friction, float
gravity)=0
  sf::Vector2f get_velocity
() const
+ sf::FloatRect get_rect
() const override
+ sf::Vector2f get_starting
 position() const
+ virtual void stop_vertical()
+ virtual void stop_horizontal()
+ void update_position()
+ virtual void reset()
+ bool is alive() const
+ void kill()
+ void push(float force)
+ void blow(float force)
+ virtual void change
 direction()
# virtual void update
_animation_state()
 animation_
# virtual void update
 texture()
                   Δ
                Player
  + Player(float x, float y)
    void update(float friction,
   float gravity) override
  + void update_graphics
  (Camera &camera)
+ int get_lives() const
+ std::string get_curre
_power_up() const
                        current
   power_up() const
F void activate_random
   power_up()
+ void reset() override
  + void use_healthpack()
+ bool is_ghost() const
+ bool has_super_power
    const
  and 6 more...
```