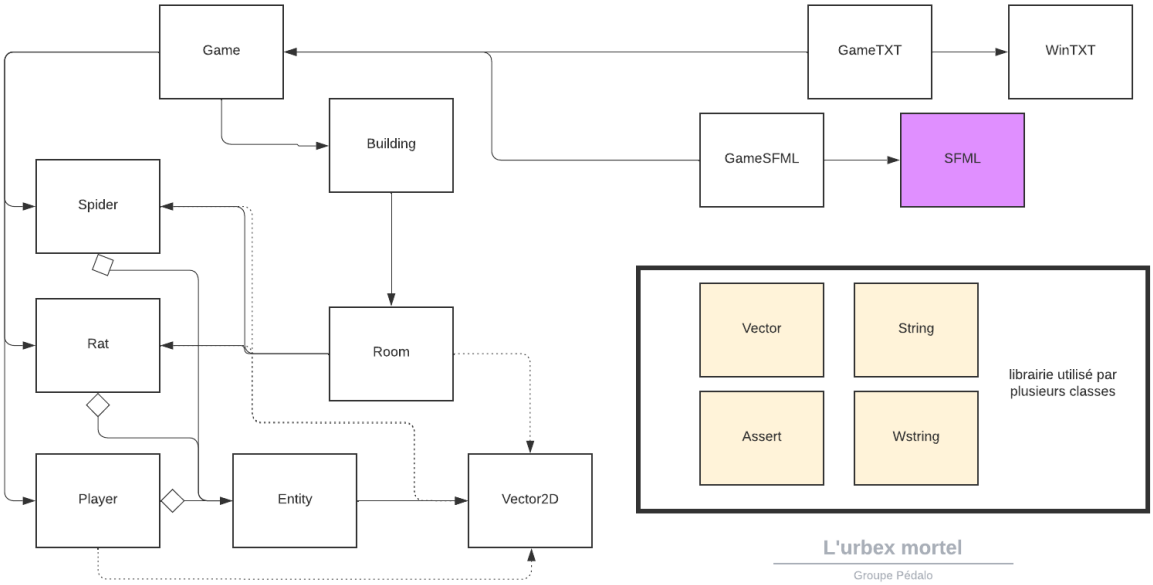
Game
GameTXT
WinTXT
Building
GameSFML
SFML
Spider
Rat
Room
Vector
String
Assert
Wstring
librairie utilisé par plusieurs classes
Player
Entity
Vector2D
L'urbex mortel
Groupe Pédalo

Core :

Game
- building : Building* - room : unsigned int - player : Player* - rats : vector<Rat*> - spiders : vector<Spider*>
+ Game() + ~Game() + setDifficulty(difficulty : unsigned int) + getBuilding() : Building* + getPlayer() : Player* + getNbRat() : unsigned int + getRat(i : unsigned int) : Rat* + addRat() : void + removeRat() : void + collisionRat() : void + getNbSpider() : unsigned int + getSpider(i : unsigned int) : Spider* + addSpider() : void + removeSpider() : void + collisionSpider() : void + update(time : time) : int - changeRoom() : bool + regressionTest() : void

building :

Building
- arrayRoom : vector<Room> - currentRoom : unsigned int - nbRoom : unsigned int - totalTime : unsigned int
+ Building(nb : unsigned int) + Building(filename : string) + getCurrentRoom() : Room* + getIntCurrentRoom() : unsigned int + getNbRoom() : unsigned int + getTotalTime() : unsigned int + finishRoom() : bool + regressionTest() : void

PATH_ROOMS : const string
Obstacle : enum

Room
- dimX : unsigned int - dimY : unsigned int - time : unsigned int - arrayObstacle : vector<Obstacle> - arrayRat : vector<Vector2D> - arraySpider : vector<Vector2D>
+ Room() + Room(filename : string) + getDimX() : unsigned int + getDimY() : unsigned int + getObstacle(V : Vector2D) : Obstacle + setObstacle(V : Vector2D, o : Obstacle) : void + getNbRat() : unsigned int + getRat(i : unsigned int) : Vector2D* + getNbSpider() : unsigned int + getSpider(i : unsigned int) : Vector2D* + getTime() : unsigned int + regressionTest() : void

entity

Entity
- position : Vector2D - height : unsigned int - width : unsigned int
+ Entity() + Entity(p : Vector2D, w : unsigned int, h : unsigned int) + getHeight() : unsigned int + getWidth() : unsigned int + getPosition() : Vector2D + setPosition(const Vector2D & p) : void + up(const Room & R) : void + right(const Room & R) : void + down(const Room & R) : void + left(const Room & R) : void + gravity(const Room & R) : void + regressionTest() : void

enum Skin

Player : public Entity
- skin : Skin - hp : unsigned int - timeInvincible : unsigned int - orientation : bool
+ Player(p : Vector2D, s : Skin s, health : unsigned int) + getSkin() : Skin + setSkin(S : Skin) : void + getHp() : unsigned int + decreaseHp(h : unsigned int) : bool + getTimeInvincible() : unsigned int + decreaseTimeInvincible() : void + getOrientation() : bool + up(B : Building) : void + right(B : Building) : void + down(B : Building) : void + left(B : Building) : void + gravity(R : Room) : void - isMovePossibleUp(R : Room, V: Vector2D) : int - isMovePossibleSide(R : Room, V : Vector2D) : int - isMovePossibleDown(R : Room, V : Vector2D) : int - isMovePossibleGravity(R : Room, V : Vector2D) : int + standingOnBlock(R : Room) : bool + standingOnGhostBlock(R: Room) : void - drinkPotion(B : Building) : void + regressionTest() : void

Rat : public Entity
- direction : int - time : unsigned int
+ Rat(p : vector2D) + getDirection() : int + move(R : Room, P : Player) : void + gravity(R : Room) : void - findDirection(P : Player) : void - isPlayerArround(P : Player) : bool - isMovePossible(R : Room, V : Vector2D) : bool - isMovePossibleGravity(R : Room, V : Vector2D) : bool + regressionTest() : void

Spider : public Entity
- direction : int - time : unsigned int
+ Spider(p : Vector2D) + getDirection() : int + move(R : Room) : void - isMovePossible(R : Room, V : Vector2D) : bool + regressionTest() : void

Vector2D
- x : unsigned int - y : unsigned int
+ Vector2D() + Vector2D(Vx : unsigned int, Vy : unsigned int) + getX() : unsigned int + getY() : unsigned int + setX() : unsigned int + setY() : unsigned int + operator+(V : Vector2D) : Vector2D + distance(V : Vector2D) : float + regressionTest() : void

TXT

GameTXT
- window : WinTXT
+ GameTXT(G : Game) + loop(G : Game) : void - draw(G : Game)

SFML

const string PATH_FONTS
const string PATH_MUSIC
const string PATH_SKINS
const string PATH_TEXTURES

GameSFML
- window : RenderWindow - textures : vector<Texture> - skins : vector<Skin> - spriteSize : unsigned int - close : bool
+ GameSFML(game : Game) + ~GameSFML() + loadTextures() : void + loadSkins() : void + loop(game : Game) : void - draw(game : Game) : void - drawBackground(dimX : unsigned int, dimY : unsigned int) - drawObstacles(room : Room) : void - drawPlayer(player : Player*) : void - drawSpider(spider : Spider*, room : Room) :void - drawRat(rat : Rat*) : void - drawInfoPlayer(game : Game) : void - drawString(str : wstring, y : unsigned int) - drawMenu() : void - drawEnd(victory : bool) : void + drawStory() : void + drawDifficultyMenu(game : game) : void + drawSkinMenu(game : Game) : void + randomizeTextures() : void + randomizeSkins() : void +