

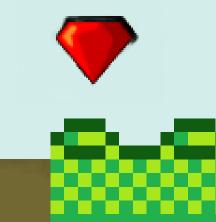




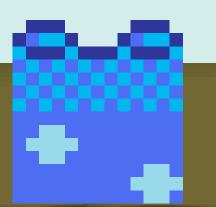
JEU DE LABYRINTH











# classes principales

Personnage -nom: chaine de caractère -pos: Vec2 -type\_p: Type -pla: Plateau +Personnage() ~Personnage() +entrernom() +getPos() +setPos(int) +Personnage(IN Type, int) +getType() +DeplacerD(IN Plateau) +DeplacerG(IN Plateau) +DeplacerH(IN Plateau) +Gravite(IN Plateau) +testRegression Per()

## Plateau -dimx: entier. -dimy: entier +plateau: tableau 2D de NomCase -tabObj: tableau de Objet -tabBloc: tableau de Objet -vitesse: entier +Plateau() ~Plateau() +getPlateau(int) +getDimx() +aetDimv() +getObjet(IN int) +setObjet(int, IN Type, Vect2) +EstPosValide(int) +setPlateau(Vect2, IN NomCase) +bougeAuto()

Jeu -plat: Plateau -feu: Personnage -eau: Personnage +score: entier\_positif +tmp partie: entier +Jeun ~Jeu() +actionClavier(char) +Gravite(bool) +oetPlateau() +getPersonnageEau() +gePersonnageFeu() +succes(IN Objet) +perte(IN Objet) +collision(IN Personnage, IN Objet) +ajouteScore(Plateau) +testRegressionJeu() +ActionAuto()

# règles du jeu

## Atteindre les deux portes



mouvements vers la droite, gauche, sauter



éviter les obstacles:
-rivière vs feu
-lava vs eau
-rivière verte vs feu et eau



gagner des bonus diamants correspendant à chaque personnage

## menu texte

## Menu

- +Menu Choix1: enum ChoixMenu
- +Menu Choix2: enum ChoixMenu
- +Menu\_Quit: enum ChoixMenu
- +MENU\_MAX: extern entier
- +menuAff()
- +menuQuestion()

## Menu

1: Jeu mode texte

2: Jeu mode SDL

0: Exit

Votre choix?

## menu sdl

#### SDLMenu dans MenuSdl

-fenetre: pointeur sur SDL\_Window -rederer: pointeur sur SDL\_Renderer

-font: pointeur sur TTF Font

-font\_sim: Image

-font\_color: SDL\_Color

-titre: Image

-boutonSDL: Image -boutonTxt: Image -boutonQuit: Image

-rectBoutonSDL: SDL\_Rect
-rectBoutonTXT: SDL\_Rect
-rectBoutonQuit: SDL\_Rect

+SDLMenu()

~SDLMenu()

+estclique(int, SDL\_Rect)

+afficherMenu(SDL Renderer)

+getRec()

+getRecBoutonSDL(IN-OUT SDL\_Rect) +getRecBoutonTXT(IN-OUT SDL\_Rect) +getRecBoutonQUIT(IN-OUT SDL\_Rect)

+sdlBoucle()

### Image dans MenuSdl

-surface: pointeur sur SDL\_Surface
 -texture: pointeur sur SDL\_Texture

-has\_changed: booléen

+Image()

~Image()

+loadFromFile(IN char, SDL\_Renderer)

+loadFromCurrentSurface(SDL\_Renderer)

+getTexture()

+draw(SDL\_Renderer, int)

+setSurface(SDL\_Surface)

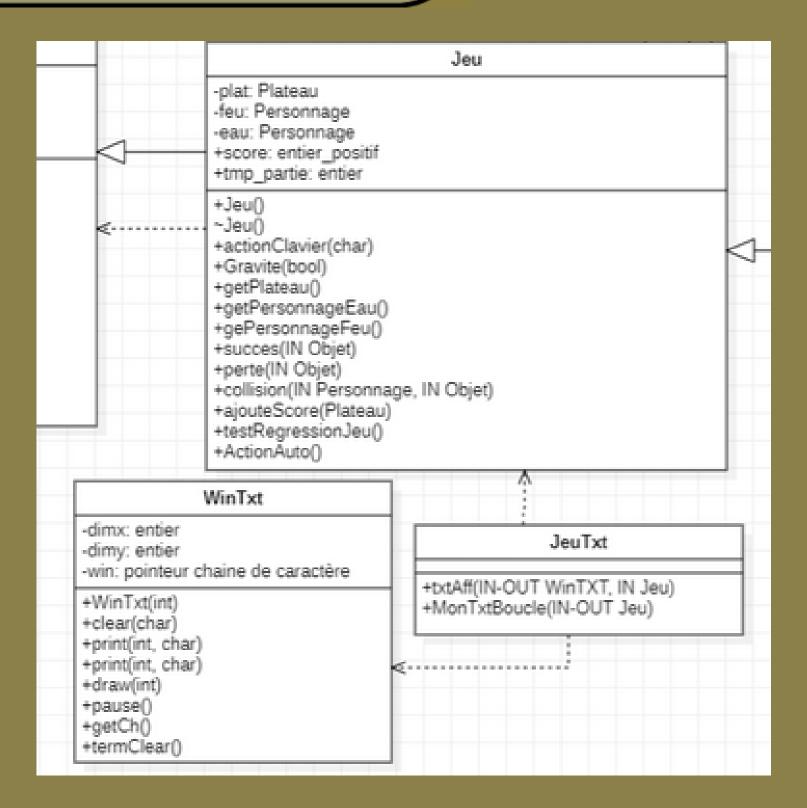
# FIREBOY & WATERSITI ELEMENTS











```
###################################
#
                        ##
# E
                        ##
         ###########
#####
            ######
                    #######
##
                        ##
#
      ##
                        ##
                  ##
    ##########
                        ##
                   ###ff###
  ############ee##
#
                     ######
            ######
             ######
######
             ######
                    #######
#######ee#
#############
##
                 ####
##
           ##vv##
                   #####
##
     ##
         ###
                   ##
                        b .
    ####
            ######
                        ###
##e
##f#####ee####
               ####
                       ####
##
      ####
                        ##
##
                    #######
```



#### JeuSdl

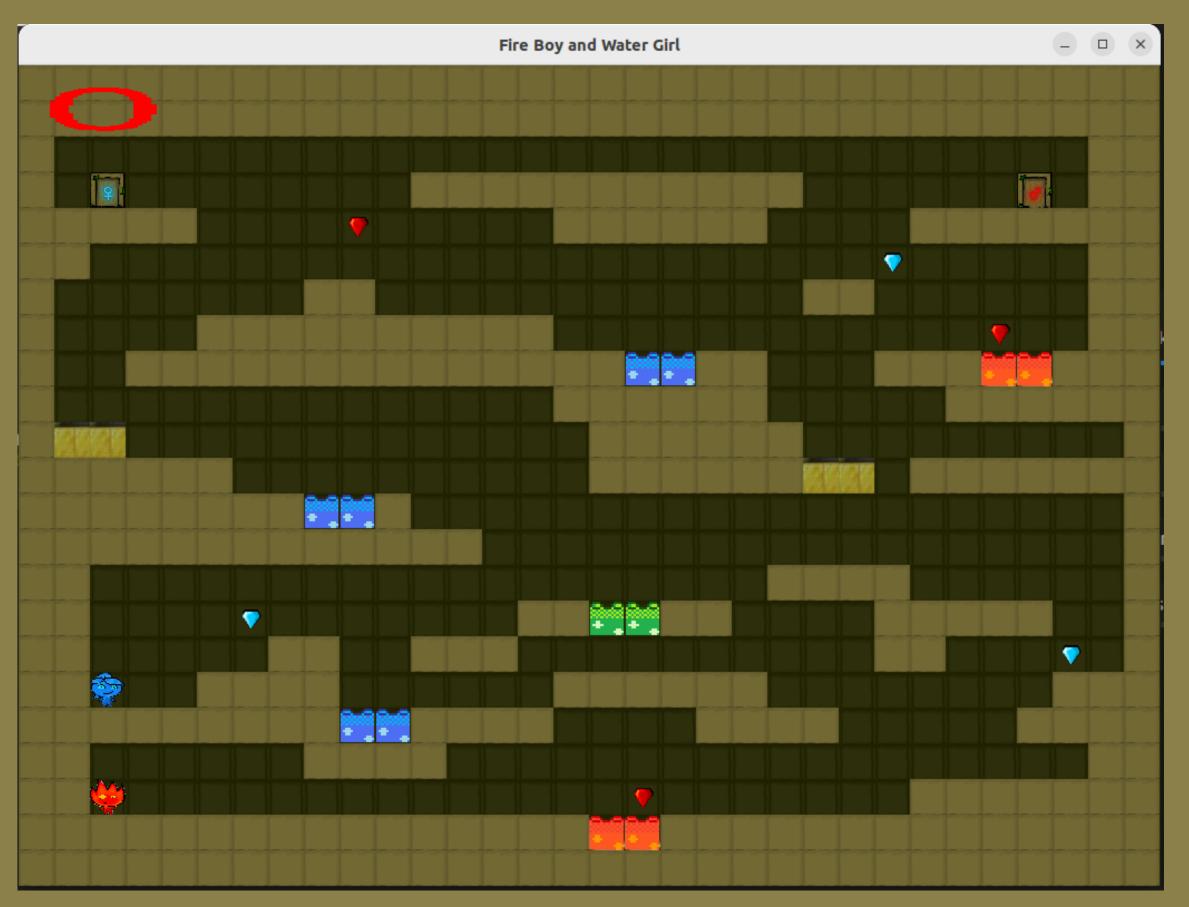
- -surface: pointeur SDL\_Surface -texture: pointeur SDL\_Texture -has\_changed: booléen

- +Image()
- ~Image()
- +loadFromFile(IN Char)
- +loadFromCurrentSurface()
- +draw(int)
- +getTexture()
- +setSurface()

#### SDLSimple

-jeu: Jeu -window: pointeur SDL\_Window -renderer: pointeur SDL\_Renderer -renderer: pointeur SDL\_Rende -font: TTF\_Font -font\_im: Image -font\_color: SDL\_Color -musique: pointeur Mix\_Music -withsound: booléen -time: SDL\_TimerID -im\_chrono: Image -chrono\_couleur: SDL\_Color -riviere1: Image -lava1: Image -vert1: Image -im\_perso\_eau: Image -im\_perso\_feu: Image -im\_mur: Image -im\_fond: Image -im\_bloc: Image -im\_porte\_eau: Image -im\_porte\_feu: Image -souris: booléen -touche: booléen

+SDLSimple() ~SDLSimple() +sdlBoucle() +sdlAff()



## difficultés rencontrées

- 1. Création Plateau
- 2. Mouvement Automatique
- 3. Affichage Menu SDL
- 4. Affichage des diamants
- 5. Problèmes en Memoire

```
(base) acil@acil-ZenBook-UX431FAC-UX431FA:~/Documents/L2/LIFAP4/jeu-de-labyrinth$ valgrind bin/sdl
==5616== Memcheck, a memory error detector
==5616== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==5616== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==5616== Command: bin/sdl
==5616== Invalid read of size 8
==5616==
           at 0x40286C8: strncmp (strcmp.S:172)
           by 0x400668D: is_dst (dl-load.c:216)
           by 0x400810E: _dl_dst_count (dl-load.c:253)
           by 0x400810E: expand_dynamic_string_token (dl-load.c:395)
==5616==
           by 0x40082B7: fillin_rpath.isra.0 (dl-load.c:483)
           by 0x4008602: decompose_rpath (dl-load.c:654)
==5616==
           by 0x400ABF5: cache_rpath (dl-load.c:696)
==5616==
           by 0x400ABF5: cache rpath (dl-load.c:677)
           by 0x400ABF5: dl map object (dl-load.c:2165)
           by 0x4003494: openaux (dl-deps.c:64)
==5616==
==5616==
           by 0x4F1AC27: _dl_catch_exception (dl-error-skeleton.c:208)
           by 0x4003C7B: _dl_map_object_deps (dl-deps.c:248)
           by 0x400EA0E: dl_open_worker_begin (dl-open.c:592)
           by 0x4F1AC27: _dl_catch_exception (dl-error-skeleton.c:208)
           by 0x400DF99: dl_open_worker (dl-open.c:782)
==5616==  Address 0x73beb49 is 9 bytes inside a block of size 15 alloc'd
==5616==
           at 0x4848899: malloc (in /usr/libexec/valgrind/vgpreload_memcheck-amd64-linux.so)
           by 0x40271FF: malloc (rtld-malloc.h:56)
==5616==
           by 0x40271FF: strdup (strdup.c:42)
==5616==
           by 0x4008594: decompose_rpath (dl-load.c:629)
           by 0x400ABF5: cache_rpath (dl-load.c:696)
==5616==
           by 0x400ABF5: cache_rpath (dl-load.c:677)
==5616==
           by 0x400ABF5: _dl_map_object (dl-load.c:2165)
           by 0x4003494: openaux (dl-deps.c:64)
==5616==
           by 0x4F1AC27: _dl_catch_exception (dl-error-skeleton.c:208)
           by 0x4003C7B: _dl_map_object_deps (dl-deps.c:248)
==5616==
           by 0x400EA0E: dl_open_worker_begin (dl-open.c:592)
==5616==
           by 0x4F1AC27: _dl_catch_exception (dl-error-skeleton.c:208)
==5616==
           by 0x400DF99: dl_open_worker (dl-open.c:782)
           by 0x4F1AC27: _dl_catch_exception (dl-error-skeleton.c:208)
           by 0x400E34D: dl open (dl-open.c:883)
```