# ARCADE DOC

#### How to compile?

Our Makefile has the following rules (including all, clean, fclean, re):

- core: it build the core of the program (not the games nor the graphical librairies)
- games: it build games librairies
- graphicals: it build graphical librairies

All rules build core, games and graphicals at the same time.

The core build an executable that is found in: ./arcade

The games build libraries that are found in: ./games/

The graphicals build libraries that are found in: ./lib/

How to launch Arcade:

Compile then: ./arcade ./lib/lib\_arcade\_{name of the graphical lib you want to start}.so It launch the menu.

### **Key Config:**

the key are:

Quit: esc Restart: r Nextlib: n

Nextgame: z

Prevlib: p

Prevgame: a

Left:KEY\_LEFT

Right:KEY\_RIGHT

Up:KEY\_UP

Down:KEY\_DOWN

#### Describe of the action:

- - Quit: It quit the game.
- Restart: It restart your game.
- Nextlib: It switch with the next graphical library.
- Prevlib: It switch with the previous graphical library.
- Nextgame: It switch with the next game library.
- - Prevgame: It switch with the previous game library.
- Left: Move the player to the left cell.
- Right: Move the player to the right cell.
- Up: Move the player to the up cell.
- Down: Move the player to the down cell.

### Score gestion:

Each game has a file named ./highscore\_{name of the game}.txt The file is composed like that: {scorePoint}\n{pseudo}.

## How to integrate a graphical library:

You have to heritate from IDisplayModule class.

#### Following these methods:

- - Init(): Initialize the library (create a window for example).
- display(): refresh the window's screen to get the changes made during the game.
- getEvent(): When the library get an event, it catch it and return the value of enum Key.
- - menu(): Display the Menu of the lib.
- drawMap(MAPTYPE \*\*map): display the map. The map is a 2 dimensional Enum tab (Enum of Enum) where each cell has a Enum like Wall or ENNEMY.
- drawScore(): Displays the score of the game launched.

• - closeWindow() : stop the library (close the window for example).

#### How to integrate a game:

You have to heritate from IGameModule class.

#### Following these methods:

- Init(IDisplayModule\*display): initialize the game environment.
- start(): the start function called by the play loop is used to start the play loop. If an event is detected from the graphics library, our function returns the detected event.
- changeIDisplay(IDisplayModule\*display): This function allows you to change the graphics library.