Documention Arcade

How to use and append libraries

Hello and welcome to the document of the arcade project.			
△ This document explains how to create and add new libraries. If you want to know how the project works, I suggest you read thi®EADME.			
Graphic Library			
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All of our methods are located in: "Graphs/include/[libname].hpp"			
All of them must be implemented in your library.			
FIY: When you want to display something, don't forget to call the clear function. It is important to avoid issues. Also, think about the order or your calls functions			
The Constructor:			
Will initialize the library and setup the type and name of the it. It takes no parameter.			
ex:			
<pre>Graph::SDL2 *SDL2 = new Graph::SDL2();</pre>			
The Destructor:			
Won't do anything.			
Open:			
Will plays the role of the constructor. Create the window. It takes the title of the window and his icon.			
ex:			
<pre>void open(std::string const &title = "", std::string const &icon = "");</pre>			

Close:

Will plays the role of the deconstructor. Will erase, delete, destroy the window and all memory allocated. It takes no parameter.

void	close()	const:

SetTitle:

Will changes the title of the window. It takes the title as only parameter.

ex:

```
void setTitle(std::string const &title) noexcept;
```

SetIcon:

Will changes the icon of the window. It takes the path to the image as only parameter.

ex:

```
void setIcon(std::string const &icon);
```

GetEvent:

Will retrieves the current event. It takes no parameter.

ex:

Arcade::Events getEvent() noexcept;

GetEventChar:

Will retrieves the letter key of the last event. It takes no parameter.

ex:

char getEventChar() const noexcept;

CheckCollision:

Will checks if there is a collision between two entities.

It takes as parameters: - Position of the first entity. - Size of the first entity. - Position of the second entity. - Size of the second entity.

int checkCollision(Position const &pos1, Size const &size1, Position const &pos2, Size const &size2) const noexcept;

DisplayWindow:

Displays the window after clearing it. It takes no parameter;

ex:

void displayWindow() noexcept;

DisplayImage:

Will displays an image (= pixel array) according to its components.

It takes as parameters: - Position of the image. - Form of the image. - The color of the image. - The Size of the image.

ex:

void displayImage(Graph::Position &pos, Graph::Form &form, Arcade::ColorIdx &idx, Graph::Size &size);

DrawRect:

Will draws a rectangle.

It takes as parameters: Position of the rect. Color of the rect. Size of the rect.

ex:

void drawRect(Graph::Position &pos, Arcade::ColorIdx &idx, Graph::Size &size) noexcept;

Game Library

First of all, you need to have all of your game assets. Therefore, create a folder in: "Ressources/Games/[Game_name]"

You have to put your forms assets (characters, walls, items) in: "Ressources/Games/[Game_name]/forms/"

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GetType

Will gets the type of the library. It takes no parameter.

ex:

Arcade::Type getType() const noexcept = 0;

Will loads a scene and create all the components. It takes the requested library as parameter.

ex:

```
void load(Graph::AGraph *lib) = 0;
```

HandleEvents

Will reacts to the events related on the elapsed time and simulate the game. It takes the elapsed time as parameter.

ex:

```
void handleUpdate(double elapsedTime) const noexcept = θ;
```

Display

Will displays all the components. It takes no parameter.

ex:

```
void display() const noexcept = 0;
```

FIY

You can implement as many functions as you want, but keep in mind, these functions won't work with the others libraries.