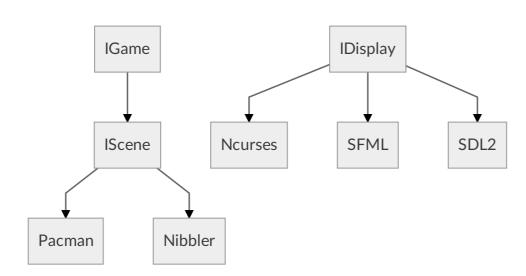
## **Documentation for Arcade Project**

#### **Welcome to Arcade Project**

**Arcade** is a gaming platform: a program that lets the user choose a game to play and the graphic library to use.

#### **Class Diagram**



#### **Useful function and macros**

**arcade::TypeEvent** is an enumeration that contains the different types of events that the library can have, for example arcade::WINDOW, which corresponds to an event in the window.

Here is the TypeEvent declaration that is in the arcade namespace:

**Texture** is a structure that will allow the exchange of information concerning the textures to be displayed as well as the texts and the characters.

Here is the Texture & Position declaration:

#### NOTE:

- The path variable is the path of the image, it must be either relative to the arcade executable or complete.
- The **similar** variable is used to **replace the texture with a char** if the current graphic library doesn't support images.
- The isFile variable is set to true if is a file, otherwise path is use as a text.
- If the **display** variable is set to true then the texture is displayed, otherwise the texture is not loaded.
- The **position** variable is the position of the **top-left** corner of the **Texture**.

## **Add your Graphics Library**

**Tips**: Your graphics library must be in the folder **lib/** on the root of the project.

Your class must inherit from the IDisplay class. Here is the abstract class IDisplay :

```
class IDisplay {
public:
 virtual ~IDisplay() = default;
public:
 virtual bool Display() = 0;
 virtual bool isKey() = 0;
 virtual bool isOpen() = 0;
 virtual bool GetKey(arcade::TypeEvent typeEvent, std::string const &eventName) = 0;
 virtual bool loadTexture(std::map<std::string, Texture> const &textureList) = 0;
 virtual bool loadMap(std::vector<std::vector<char>> const &mapCharacter) = 0;
 virtual bool loadText(std::map<std::string, Texture> const &textureList) = 0;
 virtual void destroyWindow() = 0;
 virtual void changeLibrary(std::string const &path) = 0;
 virtual bool getChange() const = 0;
  virtual std::string const &getNewGamePath() const = 0;
 virtual void setNewGamePath(std::string const &path) = 0;
 virtual bool getSwitchScene() const = 0;
 virtual void setSwitchScene(bool state) = 0;
 virtual void setChange(bool state) = 0;
 virtual std::string const &getLibraryPath() const = 0;
protected:
 bool change;
 bool switchScene
 std::string newGamePath;
 std::string newLibraryPath;
```

## Note:

- If an exception needs to be thrown, use the arcade::GraphicsLibraryError class.
- All the events that can be used are available in the utils.hpp file.

# Add your Game