Fast OpenGL Library

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Chapter 1

WIP: FastOGLib - Fast OpenGL Library

Fast and scalable library, able to create OpenGL progams on osx/linux/windows machines.

1.1 Instalation of Library

Actually does not provide plug in solution. Saying that so it's needed to download all source codes of Lib and dependent libs.

```
git stash
git pull
git submodule sync && git submodule update --init
```

1.1.1 Linux/OSX

After checking out the desired version of library building is straight forward:

```
mkdir build
cd build
cmake ..
make
```

1.1.2 Windows

Unfortunetly on Windows the GNU compiler with make is required (MVC option is no tested - Feel free to test i will try to help my best). In order to build the app it's needed to select correct compiler:

```
mkdir build
git stash
git pull
git submodule sync && git submodule update --init
cd build
cmake .. -G "MinGW Makefiles"
mingw32-make.exe -j 10 -1 10
```

1.1.3 Developing the application

Actually in order of developement on this library the main.cpp file has to be modified. In future months I'll be adding more functionality, which can me monitored in issues, and after some time, I'll provide CMake style libraries.

1.2 Contributors

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

GPU::ArrayHandler	. 8
$Primitives::Color < T > \dots \dots$. 11
$Primitives:: Color RGBA < T > \dots \dots$. 11
Lights::DirectLight	. 12
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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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GPU::ArrayHandler	8
Primitives::Color < T >	1
Primitives::ColorRGBA< T >	1
Controller	2
Lights::DirectLight	2
OSDL::DualLink	3
Lights::GlobalLight	3
GPU::GPU_Ref	4
Lights::LightManager	4
Primitives::Line	5
Model	7
OSDL::Observer	7
	8
	8
Primitives::PrimitivesManager	9
	9
Lights::SphericalLight	-
Primitives::Square	
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AEG::Texture	
AEG::Textures	_
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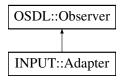
6 Class Index

Chapter 4

Class Documentation

4.1 INPUT::Adapter Class Reference

Inheritance diagram for INPUT::Adapter:



Public Member Functions

- void Notify (OSDL::Subject *)
- bool isKeyPressed (KeyBoardKey)
- bool isKeyHold (KeyBoardKey)

Private Attributes

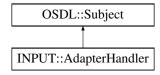
- std::map< KeyBoardKey, bool > keyPressed
- std::map < KeyBoardKey, bool > keyHold

The documentation for this class was generated from the following files:

- Engine/Core/core/InputAdapter.hpp
- Engine/Core/core/InputAdapter.cpp

4.2 INPUT::AdapterHandler Class Reference

Inheritance diagram for INPUT::AdapterHandler:



Public Types

enum KeyActionType { Hold, Press_down, Press_Up }

Public Member Functions

- AdapterHandler (AdapterHandler &other)=delete
- void operator= (const AdapterHandler &)=delete
- AdapterHandler * getInstance ()
- KeyBoardKey getKey ()
- KeyActionType getAction ()

Static Public Member Functions

• static void onKeyUpdate (GLFWwindow *window, int key, int status, int action, int mods)

Private Member Functions

· void UpdateKey (int)

Private Attributes

- KeyBoardKey key
- KeyActionType Action

The documentation for this class was generated from the following files:

- · Engine/Core/core/InputAdapter.hpp
- Engine/Core/core/InputAdapter.cpp

4.3 GPU::ArrayHandler Class Reference

Public Member Functions

• bool areFreeBuffers ()

Check if any buffers are avaliable.

bool alocateBuffer (int)

Alocates GPU space for x buffers.

GPU_Ref * getFirstAvailavleBuffer ()

Returns pointer to first Available Buffer.

void releaseBuffer (int)

Releases the buffer, if buffer is not taken does nothing.

Private Member Functions

bool areRepetitions (unsigned int[], int)

check if are repetitions in Array

Private Attributes

• $std::vector < GPU_Ref > GPUSpace$

4.3.1 Member Function Documentation

4.3.1.1 alocateBuffer()

```
bool GPU::ArrayHandler::alocateBuffer (  \quad \text{int } size \ ) \\
```

Alocates GPU space for x buffers.

Parameters

int size amount of buffers

Note

Return values

bool if buffers were created

4.3.1.2 areFreeBuffers()

bool GPU::ArrayHandler::areFreeBuffers ()

Check if any buffers are avaliable.

Note

Return values

bool are any buffers free

4.3.1.3 areRepetitions()

```
bool GPU::ArrayHandler::areRepetitions (
          unsigned int array[],
          int size ) [private]
```

check if are repetitions in Array

Note

Parameters

int[]	array
int	size of array

Return values

true	If they're repetiotion
false	if there are no repetitions

4.3.1.4 getFirstAvailavleBuffer()

```
{\tt GPU\_Ref * GPU::} Array {\tt Handler::} {\tt getFirstAvailavleBuffer ()}
```

Returns pointer to first Available Buffer.

Note

Return values

```
GPU_Ref Pointer to buffer, in not buffers available return nullptr
```

4.3.1.5 releaseBuffer()

```
void GPU::ArrayHandler::releaseBuffer ( int \ idx \ )
```

Releases the buffer, if buffer is not taken does nothing.

Note

Exceptions



Return values



The documentation for this class was generated from the following files:

- Engine/Core/core/OpenGLArrays/ArrayHandler.hpp
- Engine/Core/core/OpenGLArrays/ArrayHandler.cpp

4.4 Primitives::Color< T > Struct Template Reference

Public Member Functions

• T & operator[] (ColorType type)

Public Attributes

- T r = 0
- T g = 0
- T**b**= 0

The documentation for this struct was generated from the following file:

• Engine/Core/core/base/Point.hpp

4.5 Primitives::ColorRGBA< T > Struct Template Reference

Public Member Functions

• T & operator[] (ColorType type)

Public Attributes

- Color< T > color
- T alpha = 0

The documentation for this struct was generated from the following file:

Engine/Core/core/base/Point.hpp

4.6 Controller Class Reference

Inheritance diagram for Controller:



Additional Inherited Members

The documentation for this class was generated from the following file:

• Engine/Core/patterns/MVC/Controller.hpp

4.7 Lights::DirectLight Class Reference

Public Member Functions

- DirectLight (float, float, float, float, float, float, float, float, float)
- void setPosition (float, float)
- void Move (float, float)
- · void setColor (float, float, float)
- · void setLumen (float)
- void setAlpha (float)
- · float getX ()
- float getY ()
- float getLumen ()
- · float getAlpha ()
- float getR ()
- float getG ()
- · float getB ()
- float getConeAngle ()
- float getConeWidth ()
- float getConeLength ()

Private Attributes

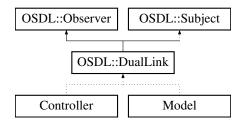
- float x
- float y
- float lumen
- float alpha = 1.0f
- float r
- float g
- float **b**
- float coneAngle
- · float coneWidth
- · float coneLength

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Light/DirectLight.hpp
- Engine/Core/core/primitives/Light/DirectLight.cpp

4.8 OSDL::DualLink Class Reference

Inheritance diagram for OSDL::DualLink:



Additional Inherited Members

The documentation for this class was generated from the following file:

• Engine/Core/patterns/ObserverSubject/DualLink.hpp

4.9 Lights::GlobalLight Class Reference

Public Member Functions

- · GlobalLight (float, float, float, float, float)
- void setPosition (float, float)
- void Move (float, float)
- · void setColor (float, float, float)
- void setLumen (float)
- void setAlpha (float)
- float getX ()
- · float getY ()
- · float getLumen ()
- float getAlpha ()
- float getR ()
- · float getG ()
- · float getB ()

Private Attributes

- float x
- · float y
- · float lumen
- float alpha = 1.0f
- float r
- float q
- · float b

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Light/GlobalLight.hpp
- Engine/Core/core/primitives/Light/GlobalLight.cpp

4.10 GPU::GPU Ref Class Reference

Public Member Functions

- GPU_Ref (int, int, int)
- const unsigned int & getVAO ()
- · const unsigned int & getVBO ()
- const unsigned int & getEBO ()

Protected Member Functions

- void Release ()
- bool & Taken ()
- GPU_Ref * Take ()

Private Attributes

- · unsigned int VAO
- · unsigned int VBO
- · unsigned int EBO
- · bool taken

Friends

· class ArrayHandler

The documentation for this class was generated from the following files:

- Engine/Core/core/OpenGLArrays/ArrayHandler.hpp
- Engine/Core/core/OpenGLArrays/ArrayHandler.cpp

4.11 Lights::LightManager Class Reference

Public Member Functions

- void addDirectLight (DirectLight *)
- void addSphericalLight (SphericalLight *)
- void addGlobalLight (GlobalLight *)
- void removeDirectLight (DirectLight *)
- void removeSphericalLight (SphericalLight *)
- void removeGlobalLight (GlobalLight *)
- · void addDirectLight (float, float, float, float, float, float, float, float, float)
- · void addSphericalLight (float, float, float, float, float, float, float)
- · void addGlobalLight (float, float, float, float, float, float, float)
- void draw (Primitives::PrimitivesManager primitives)

Private Member Functions

- void drawDirectLights (Primitives::PrimitivesManager primitives)
- void drawSphericalLights (Primitives::PrimitivesManager primitives)
- void drawGlobalLights (Primitives::PrimitivesManager primitives)

Private Attributes

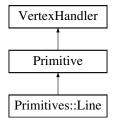
- std::vector< DirectLight * > directLights
- std::vector < SphericalLight * > sphericalLights
- std::vector < GlobalLight * > globalLights

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Lights.hpp
- Engine/Core/core/primitives/Lights.cpp

4.12 Primitives::Line Class Reference

Inheritance diagram for Primitives::Line:



Public Member Functions

- Line (int x0, int y0, int x1, int y1, int r, int g, int b, float alpha)

 Construct a new Line object.
- Line (const Line &)
- Line operator= (const Line &)
- void Display () override

Display the Line.

• bool isVisible () override

is the Line visible

• bool isNear (float x, float y, float radius) override

Private Attributes

std::vector< Rectanagle > squares

Additional Inherited Members

4.12.1 Constructor & Destructor Documentation

4.12.1.1 Line()

```
Primitives::Line::Line (
    int x0,
    int y0,
    int x1,
    int y1,
    int r,
    int g,
    int b,
    float alpha)
```

Construct a new Line object.

Parameters

x0	- x coordinate of first point
y0	- y coordinate of first point
x1	- x coordinate of second point
y1	- y coordinate of second point
W	- width of line
r	- red color component
g	- green color component
b	- blue color component
alpha	- alpha value of line

4.12.2 Member Function Documentation

4.12.2.1 Display()

```
void Primitives::Line::Display ( ) [override], [virtual]
```

Display the Line.

Implements Primitive.

4.13 Model Class Reference 17

4.12.2.2 isVisible()

```
bool Primitives::Line::isVisible ( ) [override], [virtual]
```

is the Line visible

Returns

true

false

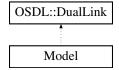
Implements Primitive.

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Line.hpp
- Engine/Core/core/primitives/Line.cpp

4.13 Model Class Reference

Inheritance diagram for Model:



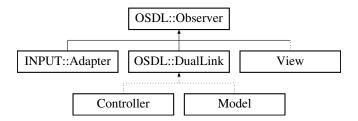
Additional Inherited Members

The documentation for this class was generated from the following file:

• Engine/Core/patterns/MVC/Model.hpp

4.14 OSDL::Observer Class Reference

Inheritance diagram for OSDL::Observer:



Public Member Functions

virtual void Notify (Subject *)

The documentation for this class was generated from the following file:

• Engine/Core/patterns/ObserverSubject/Observer.hpp

4.15 Primitives::Point2D< T > Struct Template Reference

Public Attributes

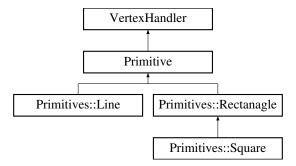
- T x = 0
- T y = 0

The documentation for this struct was generated from the following file:

• Engine/Core/core/base/Point.hpp

4.16 Primitive Class Reference

Inheritance diagram for Primitive:



Public Member Functions

- **Primitive** (prim_type)
- Primitive (prim type type, bool isDefaultPrimitive)
- Primitive (const Primitive &p)
- Primitive & operator= (const Primitive &p)
- float sin (float r)
- float cos (float r)
- virtual void **Display** ()=0
- virtual bool isVisible ()=0
- virtual bool isNear (float, float, float)=0

Protected Types

enum prim_type { RECTANAGLE, TRIANGLE, SQUARE, LINE }

Protected Attributes

enum Primitive::prim_type TYPE

The documentation for this class was generated from the following files:

- · Engine/Core/core/base/Primitive.hpp
- Engine/Core/core/base/Primitive.cpp

4.17 Primitives::PrimitivesManager Class Reference

Public Member Functions

- void addPrimitive (Primitive *)
- void removePrimitive (Primitive *)
- void removePrimitive (int)
- void removeAllPrimitives ()
- void DisplayAll ()
- PrimitivesRef getPrimitives ()
- · Primitives getPrimitivesNear (float, float, float)

Private Attributes

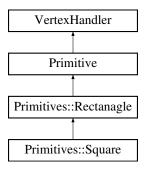
• Primitives primitives

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/PrimitivesManager.hpp
- Engine/Core/core/primitives/PrimitivesManager.cpp

4.18 Primitives::Rectanagle Class Reference

Inheritance diagram for Primitives::Rectanagle:



Public Member Functions

- Rectanagle (float, float, float, float, float=1.0f)
- Rectanagle (const Rectanagle &s)
- Rectanagle & operator= (const Rectanagle &s)
- void setWidth (float)

Set the Width value.

void setHeight (float)

Set the Height value.

void setPosition (float, float)

Set the Position object.

• void Move (float, float)

move the square relative to the current position

void setTexture (std::string)

Set the Texture object.

• bool isVisible () override

is Object on the screen

void Display () override

Draw the square.

- · float getX ()
- · float getY ()
- void setAlpha (float)

Set the Alpha value.

· bool isNear (float, float, float) override

is the Object int the radius

void setRotation (float)

Set the rotation of the square.

- float getRotation ()
- void rotate (float)

rotate the square relative to the current rotation

void setR (float)

Set R color value.

void setG (float)

Set G color value.

- void setB (float)
- void setColor (float, float, float, float=1.0f)

Set the Color value.

void SetVerticeColor (int, float, ColorType=ERROR)

Protected Types

- typedef std::array
 PointF, 4 > verticles_array
- typedef std::array
 ColorRGBAF, 4 > colors_array

Protected Member Functions

- void calculateMatrixes ()
- verticies_array rotateVertices ()

Rotate the vertices of the square.

• void calculateVerticesArr ()

Protected Attributes

- Global::WindowProperties * window
- float x
- float y
- · float width
- float height
- verticies_array verticies_arr = {}
- colors_array color_arr = {}
- float angle = 0.0f
- unsigned int **inc** [6] = {0, 1, 2, 0, 2, 3}

4.18.1 Member Function Documentation

4.18.1.1 isNear()

is the Object int the radius

Parameters

float	x - x coordinate of the center of the circle
float	y - y coordinate of the center of the circle
float	radius - radius of the circle

Returns

```
true - if object is in the radius false - if object is not in the radius
```

Implements Primitive.

4.18.1.2 isVisible()

```
\begin{tabular}{ll} bool $\tt Primitives::Rectanagle::isVisible () & [override], [virtual] \\ \end{tabular} is Object on the screen
```

Returns

```
true - if object is on the screen false - if object is not on the screen
```

Implements Primitive.

4.18.1.3 Move()

```
void Primitives::Rectanagle::Move (  \label{eq:float x, float y }  float y )
```

move the square relative to the current position

Parameters

float	x - offset in x direction
float	y - offset in y direction

4.18.1.4 rotate()

rotate the square relative to the current rotation

Parameters

```
float angle - angle in radians
```

4.18.1.5 rotateVertices()

```
Rectanagle::verticies_array Primitives::Rectanagle::rotateVertices ( ) [protected]
```

Rotate the vertices of the square.

Parameters

vertices	- vertices of the square
rot	- rotation matrix

4.18.1.6 setAlpha()

Set the Alpha value.

Parameters

float alpha - alpha value	е
---------------------------	---

4.18.1.7 setColor()

Set the Color value.

Parameters

float	r - red value
float	g - green value
float	b - blue value
float	alpha - alpha value

4.18.1.8 setG()

```
void Primitives::Rectanagle::setG ( \label{eq:float} \mbox{float } \mbox{$g$ )}
```

Set G color value.

Parameters

```
g - green value
```

4.18.1.9 setHeight()

Set the Height value.

4.18.1.10 setPosition()

Set the Position object.

Parameters

float	x - x coordinate of the center of the square
float	y - y coordinate of the center of the square

4.18.1.11 setR()

```
void Primitives::Rectanagle::setR ( \label{eq:float} \texttt{float} \ r \ )
```

Set R color value.

Parameters

```
r - red value
```

4.18.1.12 setRotation()

Set the rotation of the square.

Parameters

```
float angle - angle in radians of the square
```

4.18.1.13 setTexture()

Set the Texture object.

Parameters

std::string	data - path to the texture
-------------	----------------------------

4.18.1.14 setWidth()

Set the Width value.

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Rectanagle.hpp
- Engine/Core/core/primitives/Rectanagle.cpp

4.19 Lights::SphericalLight Class Reference

Public Member Functions

- SphericalLight (float x, float y, float lumen, float r, float g, float b)
- void setPosition (float, float)
- · void Move (float, float)
- · void setColor (float, float, float)
- · void setLumen (float)
- void setAlpha (float)
- float getX ()
- float getY ()
- · float getLumen ()
- · float getAlpha ()
- float getR ()
- · float getG ()
- float getB ()

Private Attributes

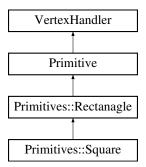
- float x
- float y
- float lumen
- float alpha = 1.0f
- float r
- float g
- float **b**

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Light/SphericalLight.hpp
- Engine/Core/core/primitives/Light/SphericalLight.cpp

4.20 Primitives::Square Class Reference

Inheritance diagram for Primitives::Square:



Public Member Functions

- Square (float, float, float=1.0f)
- Square (const Square &s)
- Square & operator= (const Square &s)

Private Attributes

• float **size** = 0

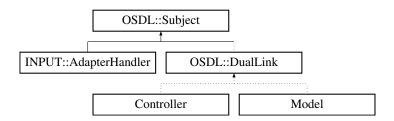
Additional Inherited Members

The documentation for this class was generated from the following files:

- Engine/Core/core/primitives/Square.hpp
- Engine/Core/core/primitives/Square.cpp

4.21 OSDL::Subject Class Reference

Inheritance diagram for OSDL::Subject:



Public Member Functions

- void addObserver (Observer &)
- void Notify ()
- void NotifyObserver (Observer &)
- void removeObserver (Observer &)

Private Attributes

• std::vector< Observer * > observers

The documentation for this class was generated from the following files:

- Engine/Core/patterns/ObserverSubject/Subject.hpp
- Engine/Core/patterns/ObserverSubject/Subject.cpp

4.22 AEG::Texture Class Reference

Public Member Functions

- Texture (std::string, unsigned int)
- const unsigned int & getTextureID ()

Protected Member Functions

- const std::string & getLocation ()
- void setTextureLocation (std::string)
- void setTextureID (unsigned int)
- void Clear ()

Private Attributes

- · unsigned int ID
- std::string location

Friends

· class Textures

The documentation for this class was generated from the following files:

- Engine/Core/core/base/Texture.hpp
- Engine/Core/core/base/Texture.cpp

4.23 AEG::Textures Class Reference

Public Member Functions

- void alocateTextureSpace (unsigned int)
- const unsigned int & getTextureIndex (const std::string &)
- void loadTexture (const std::string &)
- void unloadTexture (const std::string &)
- void unloadTexture (unsigned int)

Private Member Functions

void LoadTexture (int, const std::string &)

Private Attributes

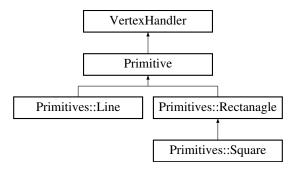
std::vector < Texture > TextureMap

The documentation for this class was generated from the following files:

- Engine/Core/core/base/Texture.hpp
- Engine/Core/core/base/Texture.cpp

4.24 VertexHandler Class Reference

Inheritance diagram for VertexHandler:



Public Member Functions

- VertexHandler (bool isDefaultPrimitive)
- VertexHandler (const VertexHandler &other)
- VertexHandler & operator= (const VertexHandler &other)
- · void setVertexHandler (float vertices[], int VerticesSize, unsigned int indices[], int indicesSize)
- void setTextureData (const std::string)
- int getTexture ()
- int getVBO ()
- int getEBO ()
- int getVAO ()

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Private Attributes

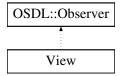
- · unsigned int VBO
- · unsigned int VAO
- · unsigned int EBO
- · unsigned int texture

The documentation for this class was generated from the following files:

- Engine/Core/core/base/vertexHandler.hpp
- Engine/Core/core/base/vertexHandler.cpp

4.25 View Class Reference

Inheritance diagram for View:



Additional Inherited Members

The documentation for this class was generated from the following file:

• Engine/Core/patterns/MVC/View.hpp

4.26 Global::WindowProperties Class Reference

Public Member Functions

- WindowProperties (WindowProperties &other)=delete
 - ArrayHandler for All GPU bindings.
- void operator= (const WindowProperties &)=delete
- GPU::ArrayHandler * getAH ()
- AEG::Textures * getTextures ()
- const int & getWindowHeight ()
- · const int & getWindowWidth ()
- void setWindowWidth (int)
- void setWindowHeight (int)

Static Public Member Functions

static WindowProperties & getInstance ()

Private Attributes

- int windowHeight
- int windowWidth

4.26.1 Constructor & Destructor Documentation

4.26.1.1 WindowProperties()

ArrayHandler for All GPU bindings.

Note

Return values

None

The documentation for this class was generated from the following files:

- Engine/Core/core/WindowProperties.hpp
- Engine/Core/core/WindowProperties.cpp

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