

R-Type - Engine

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Chapter 1

Engine

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

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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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Transform	
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Chapter 4

Class Documentation

4.1 Archetypes Class Reference

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

- `src/Archetype/Archetypes.h`

4.2 Audio Class Reference

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

- `src/Components/all_components/Audio.h`

4.3 Components Class Reference

Inheritance diagram for Components:

Public Member Functions

- virtual bool **init** ()
- virtual void **update** ()
- template<typename T >
ComponentTypeID **GetComponentTypeID** () noexcept

Protected Types

- using **ComponentTypeID** = std::size_t

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

- `src/Components/Components.h`
- `src/Components/Components.cpp`

4.4 DrawableComponent Class Reference

Inheritance diagram for DrawableComponent:

Public Member Functions

- virtual void **draw** (sf::RenderWindow &window) const =0

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

- src/Components/DrawableComponent.h

4.5 Entity Class Reference

[Entity](#) class: [Entity](#) is a class that represents an entity in the game.

```
#include <entity.h>
```

Inheritance diagram for Entity:

Collaboration diagram for Entity:

Public Member Functions

- [Entity](#) ()=default
Default [Entity](#) constructor.
- [Entity](#) (std::string nameEntity, [Archetypes](#) newArchetype=[Archetypes](#)())
[Entity](#) constructor.
- [~Entity](#) () override=default
[Entity](#) destructor.
- bool [init](#) () override
[init\(\)](#): Initialize the entity
- std::string [getName](#) () const
[genName\(\)](#): Get the name of the entity
- void [setName](#) (std::string newName)
[setName\(\)](#): Set the name of the entity
- void **addDrawable** ([Components](#) *component)
- void **draw** (sf::RenderWindow &window)
- template<typename T , typename... TArgs>
T & [addComponent](#) (TArgs &&... args)
[addComponent\(\)](#): Add a component to the entity
- template<typename T >
T & [getComponent](#) ()
[getComponent\(\)](#): Get a component from the entity
- std::bitset< 3 > **getComponentBitset** () const
- std::vector< [DrawableComponent](#) * > **getDrawableComponents** () const
- std::array< [Components](#) *, 3 > **getComponentArrays** () const

Additional Inherited Members

4.5.1 Detailed Description

[Entity](#) class: [Entity](#) is a class that represents an entity in the game.

The [Entity](#) class manages components associated with the entity.

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Entity() [1/2]

```
Entity::Entity ( ) [default]
```

Default [Entity](#) constructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.5.2.2 Entity() [2/2]

```
Entity::Entity (
    std::string nameEntity,
    Archetypes newArchetype = Archetypes() ) [inline], [explicit]
```

[Entity](#) constructor.

Parameters

<i>nameEntity</i>	name of the entity
<i>newArchetype</i>	archetype of the entity (optional, default = new archetype)

Returns

void

4.5.2.3 ~Entity()

```
Entity::~~Entity ( ) [override], [default]
```

[Entity](#) destructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.5.3 Member Function Documentation

4.5.3.1 addComponent()

```
template<typename T , typename... TArgs>
T & Entity::addComponent (
    TArgs &&... args )
```

[addComponent\(\)](#): Add a component to the entity

Template Parameters

<i>T</i>	Type of the component
<i>TArgs</i>	Variadic template for component constructor arguments.

Parameters

<i>args</i>	arguments of the component
-------------	----------------------------

Returns

T&: reference of the component

4.5.3.2 getComponent()

```
template<typename T >
T & Entity::getComponent
```

[getComponent\(\)](#): Get a component from the entity

Template Parameters

<i>T</i>	Type of the component
----------	-----------------------

Parameters

<i>void</i>	
-------------	--

Returns

T&: reference of the component

4.5.3.3 getName()

```
std::string Entity::getName ( ) const [inline]
```

getName(): Get the name of the entity

Parameters

<i>void</i>	
-------------	--

Returns

std::string: name of the entity

4.5.3.4 init()

```
bool Entity::init ( ) [inline], [override], [virtual]
```

init(): Initialize the entity

Parameters

<i>void</i>	
-------------	--

Returns

bool: true if the entity is initialized, false otherwise

Reimplemented from [Components](#).

Reimplemented in [World](#), and [EntityManager](#).

4.5.3.5 setName()

```
void Entity::setName (
    std::string newName ) [inline]
```

[setName\(\)](#): Set the name of the entity

Parameters

<i>newName</i>	new name of the entity
----------------	------------------------

Returns

void

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

- src/Entity/entity.h
- src/Entity/entity.cpp

4.6 EntityManager Class Reference

Inheritance diagram for EntityManager:

Collaboration diagram for EntityManager:

Public Member Functions

- [EntityManager](#) ()=default
Default [EntityManager](#) constructor.
- [~EntityManager](#) ()=default
[EntityManager](#) destructor.
- [Entity](#) & [addEntity](#) (std::string nameEntity, [Archetypes](#) newArchetype=[Archetypes](#)())
[addEntity\(\)](#): Create and add a new entity to the entity manager.
- [Entity](#) & [getEntity](#) (std::string nameEntity)
[getEntity\(\)](#): Get an entity from the entity manager by its name.
- std::map< std::string, [Entity](#) * > [getEntities](#) () const
[getEntities\(\)](#): Get the [EntityManager](#)'s entities.
- std::map< std::string, [Entity](#) * > [getEntityMap](#) () const
[getEntityMap\(\)](#): Get the [EntityManager](#)'s entity map.
- bool [init](#) () override
[init\(\)](#): Initialize the entity

Additional Inherited Members

4.6.1 Constructor & Destructor Documentation

4.6.1.1 EntityManager()

```
EntityManager::EntityManager ( ) [default]
```

Default [EntityManager](#) constructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.6.1.2 ~EntityManager()

```
EntityManager::~~EntityManager ( ) [default]
```

[EntityManager](#) destructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.6.2 Member Function Documentation

4.6.2.1 addEntity()

```
Entity & EntityManager::addEntity (
    std::string nameEntity,
    Archetypes newArchetype = Archetypes() ) [inline]
```

[addEntity\(\)](#): Create and add a new entity to the entity manager.

Template Parameters

<i>T</i>	Type of the entity.
<i>TArgs</i>	Type of the arguments.

Parameters

<i>args</i>	Arguments of the entity.
-------------	--------------------------

4.6.2.2 getEntities()

```
std::map< std::string, Entity * > EntityManager::getEntities ( ) const [inline]
```

[getEntities\(\)](#): Get the [EntityManager](#)'s entities.

Parameters

<i>void</i>	
-------------	--

Returns

std::map<std::string, Entity *>: Entities.

4.6.2.3 getEntity()

```
Entity & EntityManager::getEntity (
    std::string nameEntity ) [inline]
```

[getEntity\(\)](#): Get an entity from the entity manager by its name.

Template Parameters

<i>T</i>	Type of the entity.
----------	---------------------

Parameters

<i>nameEntity</i>	Name of the entity.
-------------------	---------------------

Returns

T&: Reference of the entity.

4.6.2.4 getEntityMap()

```
std::map<std::string, Entity*> EntityManager::getEntityMap ( ) const [inline]
```

[getEntityMap\(\)](#): Get the [EntityManager](#)'s entity map.

Parameters

<i>void</i>	
-------------	--

Returns

Entity::EntityMap: [Entity](#) map.

4.6.2.5 init()

```
bool EntityManager::init ( ) [inline], [override], [virtual]
```

[init\(\)](#): Initialize the entity

Parameters

<i>void</i>	
-------------	--

Returns

bool: true if the entity is initialized, false otherwise

Reimplemented from [Entity](#).

Reimplemented in [World](#).

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

- src/Entity/entityManager.h
- src/Entity/entityManager.cpp

4.7 EntityManagerTest Class Reference

Inheritance diagram for EntityManagerTest:

Collaboration diagram for EntityManagerTest:

Protected Member Functions

- void **SetUp** () override
- void **TearDown** () override

Protected Attributes

- [EntityManager](#) **entityManager** {}

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

- tests/Entity/TestEntityManager.cpp

4.8 EntityTest Class Reference

Inheritance diagram for EntityTest:

Collaboration diagram for EntityTest:

Protected Attributes

- [Entity](#) `entity`

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

- `tests/Entity/TestEntity.cpp`

4.9 EventEngine Class Reference

[EventEngine](#) class: [EventEngine](#) is a class that represents the event engine of the game.

```
#include <event.h>
```

Inheritance diagram for EventEngine:

Public Member Functions

- [EventEngine](#) ()=default
Default [EventEngine](#) constructor.
- virtual [~EventEngine](#) ()=default
[EventEngine](#) destructor.
- bool [init](#) () const
[init\(\)](#): Initialize the [EventEngine](#).
- sf::Event & [getEvent](#) ()
[getEvent\(\)](#): Get the SFML Event.
- void [addKeyPressed](#) (sf::Keyboard::Key keyboard, std::function< void()> function)
[addKeyPressed\(\)](#): Add a key pressed to the map.
- std::map< sf::Keyboard::Key, std::function< void()> > & [getKeyPressedMap](#) ()
[getKeyPressedMap\(\)](#): Get the map of the key pressed.

4.9.1 Detailed Description

[EventEngine](#) class: [EventEngine](#) is a class that represents the event engine of the game.

The [EventEngine](#) class manages the events of the game.

4.9.2 Constructor & Destructor Documentation

4.9.2.1 EventEngine()

```
EventEngine::EventEngine ( ) [default]
```

Default [EventEngine](#) constructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.9.2.2 ~EventEngine()

```
virtual EventEngine::~EventEngine ( ) [virtual], [default]
```

[EventEngine](#) destructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.9.3 Member Function Documentation

4.9.3.1 addKeyPressed()

```
void EventEngine::addKeyPressed (
    sf::Keyboard::Key keyboard,
    std::function< void()> function )
```

[addKeyPressed\(\)](#): Add a key pressed to the map.

Parameters

<i>keyboard</i>	SFML Keyboard::Key of the key pressed.
<i>function</i>	Function to execute when the key is pressed.

Returns

void

4.9.3.2 `getEvent()`

```
sf::Event& EventEngine::getEvent ( ) [inline]
```

[getEvent\(\)](#): Get the SFML Event.

Parameters

<i>void</i>	
-------------	--

Returns

sf::Event: The SFML Event.

4.9.3.3 `getKeyPressedMap()`

```
std::map<sf::Keyboard::Key, std::function<void()> >& EventEngine::getKeyPressedMap ( ) [inline]
```

[getKeyPressedMap\(\)](#): Get the map of the key pressed.

Parameters

<i>void</i>	
-------------	--

Returns

std::map<sf::Keyboard::Key, std::function<void()>>: The map of the key pressed.

4.9.3.4 `init()`

```
bool EventEngine::init ( ) const [inline]
```

[init\(\)](#): Initialize the [EventEngine](#).

Parameters

<i>void</i>	
-------------	--

Returns

bool: True if the [EventEngine](#) is initialized, false otherwise.

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

- src/Event/event.h
- src/Event/event.cpp

4.10 GameEngine Class Reference

Inheritance diagram for GameEngine:

Collaboration diagram for GameEngine:

Public Member Functions

- **GameEngine** (sf::VideoMode mode, std::string type, sf::String title, sf::Uint32 style=sf::Style::Default, const sf::ContextSettings &settings=sf::ContextSettings())
- void **run** (std::map< std::string, std::unique_ptr< [World](#) >> mapWorld, std::map< std::string, std::string > pathResources, std::string firstScene)
- void **run** ()
- void **renderGameEngine** ()
- void **eventGameEngine** ()
- bool **isWindowOpen** ()
- void **updateGameEngine** ()
- void **initialize** (std::map< std::string, std::unique_ptr< [World](#) >> mapWorld, std::map< std::string, std::string > pathResources, std::string firstScene)
- void **initializeSprite** ()
- void **initializeTexture** (std::string path)
- void **initializeWorldMap** (std::map< std::string, std::unique_ptr< [World](#) >> mapWorld)
- const auto & **getWindow** ()
- void **setWindow** ()
- [EventEngine](#) & **getEventEngine** ()
- void **setCurrentWorld** ([World](#) *world)
- [World](#) * **getCurrentWorld** ()
- [World](#) & **addWorld** (std::string nameWorld, std::unique_ptr< [World](#) > world)
- [World](#) & **getWorld** (std::string nameWorld)
- std::map< std::string, sf::Texture > **getMapTexture** () const
- std::map< std::string, [World](#) * > **getWorldMap** () const

Additional Inherited Members

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

- src/GameEngine/gameEngine.h
- src/GameEngine/gameEngine.cpp

4.11 Sprite Class Reference

[Sprite](#) class: [Sprite](#) is a class that represents the rendering properties of a Component.

```
#include <Sprite.h>
```

Inheritance diagram for Sprite:

Collaboration diagram for Sprite:

Public Member Functions

- [Sprite](#) ()=default
Default [Sprite](#) constructor.
- [Sprite](#) (const std::string &texturePath)
[Sprite](#) constructor with an existing texture path.
- [~Sprite](#) () override=default
[Sprite](#) destructor.
- bool [init](#) () const
[init\(\)](#): Initialize the [Sprite](#).
- int [getBit](#) () const
[getBit\(\)](#): Get the bit of the [Sprite](#).
- void [draw](#) (sf::RenderWindow &window) const override
[draw\(\)](#): Draw the [Sprite](#).
- void [createSprite](#) (const std::string &texturePath)
[createSprite\(\)](#): Create the SFML [Sprite](#) with a texture path for rendering.
- void [createSprite](#) (const sf::Texture &existingTexture)
[createSprite\(\)](#): Create the SFML [Sprite](#) with an existing texture for rendering.
- void [createSprite](#) ()
[createSprite\(\)](#): Create the SFML [Sprite](#) with the component's texture for rendering.
- sf::Sprite [getSprite](#) () const
[getSprite\(\)](#): Get the SFML [Sprite](#) for rendering.
- sf::Texture [getTexture](#) () const
[getTexture\(\)](#): Get the SFML Texture for the sprite.
- bool [isTextureLoaded](#) () const
[isTextureLoaded\(\)](#): Check if the texture is loaded.
- void [setSprite](#) (const sf::Sprite &sprite)
[setSprite\(\)](#): Set the SFML [Sprite](#) with an existing one for rendering.
- void [setSprite](#) (std::map< std::string, sf::Texture > mapTexture, std::string nameTexture, std::map< std::string, std::vector< float >> &mapTransform)
[setSprite\(\)](#): Set the SFML [Sprite](#) with a map of string and textures, a texture name and a map of string and vector of floats.
- void [setDeferredSprite](#) (std::function< void()> setter)
[setDeferredSprite\(\)](#): Set the deferred sprite.
- void [applyDeferredSprite](#) ()
[applyDeferredSprite\(\)](#): Apply the deferred sprite.
- void [setTexture](#) (const sf::Texture &existingTexture)
[setTexture\(\)](#): Set the texture with an existing one for the sprite.

Additional Inherited Members

4.11.1 Detailed Description

[Sprite](#) class: [Sprite](#) is a class that represents the rendering properties of a Component.

The [Sprite](#) class manages the graphical representation of a Component using SFML.

4.11.2 Constructor & Destructor Documentation

4.11.2.1 Sprite() [1/2]

```
Sprite::Sprite ( ) [default]
```

Default [Sprite](#) constructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.11.2.2 Sprite() [2/2]

```
Sprite::Sprite (
    const std::string & texturePath ) [inline], [explicit]
```

[Sprite](#) constructor with an existing texture path.

Parameters

<i>texturePath</i>	Path to the texture file for the sprite.
--------------------	--

Returns

void

4.11.2.3 ~Sprite()

```
Sprite::~Sprite ( ) [override], [default]
```

[Sprite](#) destructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.11.3 Member Function Documentation

4.11.3.1 `applyDeferredSprite()`

```
void Sprite::applyDeferredSprite ( )
```

[`applyDeferredSprite\(\)`](#): Apply the deferred sprite.

Parameters

<i>void</i>	
-------------	--

Returns

`void`

4.11.3.2 `createSprite()` [1/3]

```
void Sprite::createSprite ( )
```

[`createSprite\(\)`](#): Create the SFML [Sprite](#) with the component's texture for rendering.

Parameters

<i>void</i>	
-------------	--

Returns

`void`

4.11.3.3 `createSprite()` [2/3]

```
void Sprite::createSprite (
    const sf::Texture & existingTexture )
```

[`createSprite\(\)`](#): Create the SFML [Sprite](#) with an existing texture for rendering.

Parameters

<i>existingTexture</i>	SFML Texture for the sprite
------------------------	-----------------------------

Returns

void

4.11.3.4 createSprite() [3/3]

```
void Sprite::createSprite (
    const std::string & texturePath )
```

[createSprite\(\)](#): Create the SFML [Sprite](#) with a texture path for rendering.

Parameters

<i>texturePath</i>	Path to the texture file for the sprite.
--------------------	--

Returns

void

4.11.3.5 draw()

```
void Sprite::draw (
    sf::RenderWindow & window ) const [override], [virtual]
```

[draw\(\)](#): Draw the [Sprite](#).

Parameters

<i>window</i>	SFML RenderWindow where the Sprite will be drawn.
---------------	---

Returns

void

Implements [DrawableComponent](#).

4.11.3.6 getBit()

```
int Sprite::getBit ( ) const [inline]
```

[getBit\(\)](#): Get the bit of the [Sprite](#).

Parameters

<i>void</i>	
-------------	--

Returns

int: The bit of the [Sprite](#).

4.11.3.7 getSprite()

```
sf::Sprite Sprite::getSprite ( ) const
```

[getSprite\(\)](#): Get the SFML [Sprite](#) for rendering.

Parameters

<i>void</i>	
-------------	--

Returns

sf::Sprite: SFML [Sprite](#) for rendering

4.11.3.8 getTexture()

```
sf::Texture Sprite::getTexture ( ) const
```

[getTexture\(\)](#): Get the SFML Texture for the sprite.

Parameters

<i>void</i>	
-------------	--

Returns

sf::Texture: SFML Texture for the sprite

4.11.3.9 init()

```
bool Sprite::init ( ) const [inline]
```

[init\(\)](#): Initialize the [Sprite](#).

Parameters

<i>void</i>	
-------------	--

Returns

bool: True if the [Sprite](#) is initialized, false otherwise.

4.11.3.10 isTextureLoaded()

```
bool Sprite::isTextureLoaded ( ) const [inline]
```

[isTextureLoaded\(\)](#): Check if the texture is loaded.

Parameters

<i>void</i>	
-------------	--

Returns

bool: True if the texture is loaded, false otherwise.

4.11.3.11 setDeferredSprite()

```
void Sprite::setDeferredSprite (
    std::function< void()> setter )
```

[setDeferredSprite\(\)](#): Set the deferred sprite.

Parameters

<i>setter</i>	Function that will set the sprite.
---------------	------------------------------------

Returns

void

4.11.3.12 setSprite() [1/2]

```
void Sprite::setSprite (
    const sf::Sprite & sprite )
```

[setSprite\(\)](#): Set the SFML [Sprite](#) with an existing one for rendering.

Parameters

<i>sprite</i>	SFML Sprite for rendering
---------------	---

Returns

void

4.11.3.13 setSprite() [2/2]

```
void Sprite::setSprite (
    std::map< std::string, sf::Texture > mapTexture,
    std::string nameTexture,
    std::map< std::string, std::vector< float >> & mapTransform )
```

[setSprite\(\)](#): Set the SFML [Sprite](#) with a map of string and textures, a texture name and a map of string and vector of floats.

Parameters

<i>mapTexture</i>	Map of string and textures.
<i>nameTexture</i>	Name of the texture.
<i>mapTransform</i>	Map of string and vector of floats.

Returns

void

4.11.3.14 setTexture()

```
void Sprite::setTexture (
    const sf::Texture & existingTexture )
```

[setTexture\(\)](#): Set the texture with an existing one for the sprite.

Parameters

<i>existingTexture</i>	SFML Texture for the sprite
------------------------	-----------------------------

Returns

void

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

- src/Components/all_components/Sprite.h
- src/Components/all_components/Sprite.cpp

4.12 SpriteTest Class Reference

Inheritance diagram for SpriteTest:

4.13 Transform Class Reference

Transform class: **Transform** is a class that represents the transform of a Component.

```
#include <Transform.h>
```

Inheritance diagram for Transform:

Collaboration diagram for Transform:

Public Member Functions

- **Transform** ()=default
*Default **Transform** constructor.*
- bool **init** () const
- **Transform** (const std::map< std::string, std::vector< float >> &mapTransform)
***Transform** constructor.*
- ~**Transform** () override=default
***Transform** destructor.*
- int **getBit** () const
***getBit()**: Get the bitmask of the component*
- std::vector< float > **getPositionVector** () const
***getPositionVector()**: Get the position vector of the component;*
- std::vector< float > **getRotationVector** () const
***getRotationVector()**: Get the rotation vector of the component;*
- std::vector< float > **getScaleVector** () const
***getScaleVector()**: Get the scale vector of the component;*
- void **setTransform** (const std::map< std::string, std::vector< float >> &mapTransform)
***setTransform()**: Set the transformation properties of the component*

Additional Inherited Members

4.13.1 Detailed Description

Transform class: **Transform** is a class that represents the transform of a Component.

The **Transform** class manages the position, rotation and scale of a Component.

4.13.2 Constructor & Destructor Documentation

4.13.2.1 Transform() [1/2]

```
Transform::Transform ( ) [default]
```

Default **Transform** constructor.

Parameters

<i>void</i>	
-------------	--

Returns

void

4.13.2.2 Transform() [2/2]

```
Transform::Transform (
    const std::map< std::string, std::vector< float >> & mapTransform ) [inline],
[explicit]
```

[Transform](#) constructor.**Parameters**

<i>mapTransform</i>	Map containing transformation properties (std::string, std::vector<float>).
---------------------	---

Returns

void

4.13.2.3 ~Transform()

```
Transform::~Transform ( ) [override], [default]
```

[Transform](#) destructor.**Parameters**

<i>void</i>	
-------------	--

Returns

void

4.13.3 Member Function Documentation

4.13.3.1 `getBit()`

```
int Transform::getBit ( ) const
```

[`getBit\(\)`](#): Get the bitmask of the component

Parameters

<i>void</i>	
-------------	--

Returns

int: bitmask of the component

4.13.3.2 `getPositionVector()`

```
std::vector< float > Transform::getPositionVector ( ) const
```

[`getPositionVector\(\)`](#): Get the position vector of the component;

Parameters

<i>void</i>	
-------------	--

Returns

std::vector<float>: position vector of the component

4.13.3.3 `getRotationVector()`

```
std::vector< float > Transform::getRotationVector ( ) const
```

[`getRotationVector\(\)`](#): Get the rotation vector of the component;

Parameters

<i>void</i>	
-------------	--

Returns

std::vector<float>: rotation vector of the component

4.13.3.4 `getScaleVector()`

```
std::vector< float > Transform::getScaleVector ( ) const
```

[`getScaleVector\(\)`](#): Get the scale vector of the component;

Parameters

<i>void</i>	
-------------	--

Returns

`std::vector<float>`: scale vector of the component

4.13.3.5 `setTransform()`

```
void Transform::setTransform (
    const std::map< std::string, std::vector< float >> & mapTransform )
```

[`setTransform\(\)`](#): Set the transformation properties of the component

Parameters

<i>mapTransform</i>	Map containing transformation properties (<code>std::string</code> , <code>std::vector<float></code>).
---------------------	--

Returns

`void`

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

- `src/Components/all_components/Transform.h`
- `src/Components/all_components/Transform.cpp`

4.14 TransformTest Class Reference

Inheritance diagram for TransformTest:

Collaboration diagram for TransformTest:

Protected Attributes

- [`Transform`](#) `transform`

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

- `tests/Components/all_components/TestTransform.cpp`

4.15 World Class Reference

Inheritance diagram for World:

Collaboration diagram for World:

Public Member Functions

- void **createEntities** (std::map< std::string, std::pair< std::unique_ptr< [EntityManager](#) >, std::vector< std::string >>> &mapEntityManager, std::string keyEntityManager)
- [EntityManager](#) & **addEntityManager** (std::string NameEntityManager)
- [EntityManager](#) & **getEntityManager** (std::string NameEntityManager)
- void **setNameWorld** (std::string newName)
- std::string **getNameWorld** () const
- std::map< std::string, [EntityManager](#) * > **getEntityManagerMap** () const
- bool **init** () override
init(): Initialize the entity

Additional Inherited Members

4.15.1 Member Function Documentation

4.15.1.1 init()

```
bool World::init ( ) [inline], [override], [virtual]
```

[init\(\)](#): Initialize the entity

Parameters

<i>void</i>	
-------------	--

Returns

bool: true if the entity is initialized, false otherwise

Reimplemented from [EntityManager](#).

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

- src/World/world.h
- src/World/world.cpp

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