

mkRPG

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Chapter 1

Todo List

Class `GameObject`

Chapter 2

Deprecated List

Member [ObjectsMap](#) (pref, ini, Ini, body, sg, pl)

Member [ObjectsMapC](#) (name, names, Type, Types, pref, arg)

Chapter 3

Namespace Index

3.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

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4.1 Class Hierarchy

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6.1 File List

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Chapter 7

Namespace Documentation

7.1 `src::parsing::map_parser` Namespace Reference

Functions

- def [parse_cell](#)
- def [map_parser](#)
- def [get_size](#)
- def **gen_map**

7.1.1 Detailed Description

This module handles xml parsing for maps description files.

7.1.2 Function Documentation

7.1.2.1 `def src.parsing.map_parser.get_size (tree)`

Gets the size of the map.

7.1.2.2 `def src.parsing.map_parser.map_parser (map_xml)`

The main parser for the map xml file.

7.1.2.3 `def src.parsing.map_parser.parse_cell (cell_object)`

Parses a CellType attribute.

Chapter 8

Class Documentation

8.1 src.path.Archi Class Reference

Public Member Functions

- def `__init__`
- def `get_src_file`
- def `get_static_file`
- def `get_xml_file`
- def `list_files`
- def `get_src_dir`
- def `get_static_dir`
- def `get_xml_dir`

Public Attributes

- `main_directory`

8.1.1 Detailed Description

This class manages the architecture of the project.
It allows the user to travel in the file system of the game, to get the XML files and others (PNG, configuration files...)
Moreover, it should be cross-platform compliant

8.1.2 Member Function Documentation

8.1.2.1 `def src.path.Archi.get_src_dir (self, dir_path)`

Gets the given `dir_path` with respect to the `src` folder.

8.1.2.2 `def src.path.Archi.get_src_file (self, file_path, mode = 'r')`

Gets the path of the src directory.
At least used by the src scripts.

8.1.2.3 `def src.path.Archi.get_static_dir (self, dir_path)`

Gets the given dir_path with respect to the static folder.

8.1.2.4 `def src.path.Archi.get_static_file (self, file_path, mode = 'r')`

Gets the path of the static files directory. Static files are basically all graphical files, and a description of the common world

8.1.2.5 `def src.path.Archi.get_xml_dir (self, dir_path)`

Gets the given dir_path with respect to the xml folder.

8.1.2.6 `def src.path.Archi.get_xml_file (self, file_path, mode = 'r')`

Gets the path of a xml file describing a world, a scenario, or a campaign.

8.1.2.7 `def src.path.Archi.list_files (self, dir_path)`

List all the files present in the dir_path, if it is a dir.
Else raise a FileNotFoundError.

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

- src/path.py

8.2 src.backgroundLayer.BackgroundLayer Class Reference

Inherits Layer.

Public Member Functions

- `def __init__`
- `def init_layer`
- `def render`

- def **collision_test**
- def **click_update**
- def **get_grid_info**
- def **zoom**

Public Attributes

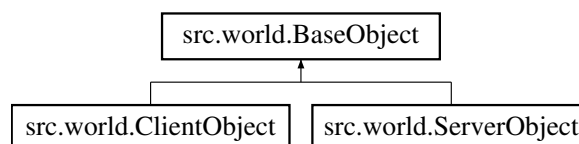
- **cell_ids**
- **grid_cell_ids**
- **g_width**
- **g_height**
- **image**
- **rect**
- **mouse_iso**
- **selected_cell**

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

- src/backgroundLayer.py

8.3 src.world.BaseObject Class Reference

Inheritance diagram for src.world.BaseObject:



Public Member Functions

- def **__init__**
- def **__getattr__**
- def **load**
- def **contextEval**

Public Attributes

- **ident**
- **params**

Static Public Attributes

- int **ident** = 0
- dictionary **ids** = {}

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

- src/world.py

8.4 BColor Class Reference

The [BColor](#) class is a simple frame that offers color selection.

```
#include <bcolor.h>
```

Public Slots

- void [setColor](#) (const QColor &c)
- void [setColorQuiet](#) (const QColor &c)
- void [setName](#) (const QString &s)
- void [setNameQuiet](#) (const QString &s)

Signals

- void [colorChanged](#) (const QColor &)
- void [nameChanged](#) (const QString &)

Public Member Functions

- [BColor](#) (QWidget *parent=0)
- [BColor](#) (QColor c, QWidget *parent=0)
- const QString & [name](#) () const
- const QColor & [color](#) () const

Properties

- QColor [color](#)
- QString [name](#)

8.4.1 Detailed Description

The [BColor](#) class is a simple frame that offers color selection.

8.4.2 Constructor & Destructor Documentation

8.4.2.1 BColor::BColor (QWidget * *parent* = 0) [explicit]

Constructs a new [BColor](#) object, with white as current color.

8.4.2.2 BColor::BColor (QColor *c*, QWidget * *parent* = 0) [explicit]

Constructs a new [BColor](#) object and sets the color to *c*.

8.4.3 Member Function Documentation

8.4.3.1 const QColor& BColor::color () const

Returns the current color of the selector.

See also

[setColor](#), [setColorQuiet](#), [colorChanged](#)

8.4.3.2 void BColor::colorChanged (const QColor &) [signal]

This signal is emitted when the color change, both when the user edit it or when [setColor](#) is called.

See also

[color](#), [setColorQuiet](#)

8.4.3.3 const QString& BColor::name () const

Returns the name of the selector.

See also

[setName](#), [setNameQuiet](#), [nameChanged](#)

8.4.3.4 void BColor::nameChanged (const QString &) [signal]

This signal is emitted when the name change, when [setColor](#) is called.

See also

[name](#), [setNameQuiet](#)

8.4.3.5 void BColor::setColor (const QColor & c) [slot]

Sets the current color.

The signal [colorChanged](#) is emitted.

See also

[setColorQuiet](#), [color](#)

8.4.3.6 void BColor::setColorQuiet (const QColor & c) [slot]

Sets the current color.

The signal [colorChanged](#) is not emitted.

See also

[setColor](#), [color](#)

8.4.3.7 void BColor::setName (const QString & s) [slot]

Sets the name of the selector.

The signal [nameChanged](#) is emitted.

See also

[setNameQuiet](#), [name](#)

8.4.3.8 void BColor::setNameQuiet (const QString & s) [slot]

Sets the name of the selector.

The signal [nameChanged](#) is not emitted.

See also

[setName](#), [name](#)

8.4.4 Property Documentation

8.4.4.1 const QColor & BColor::color [read, write]

The current color that is displayed by the widget

See also

[setColor](#), [setColorQuiet](#), [colorChanged](#).

8.4.4.2 const QString & BColor::name [read, write]

The name that is shown as title for the color chooser dialog used for user color definition purpose.

see also [setName](#), [setNameQuiet](#), and [nameChanged](#).

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

- src/editor/GUI/Tabs/bcolor.h
- src/editor/GUI/Tabs/bcolor.cpp

8.5 BDock Class Reference

The [BDock](#) class is the container for widget to display in a [BDocksZone](#).

```
#include <bdock.h>
```

Public Slots

- void **setTitle** (QString s)
- void **setUnfold** (bool v)

Signals

- void **mouseClick** (int i, const QPoint &p)
- void **mouseMove** (int i, const QPoint &p)
- void **mouseRelease** (int i, const QPoint &p)
- void **movementFinished** (int i)

Public Member Functions

- **BDock** (QString title, [BDockWidget](#) *dock, QWidget *parent=0)
- bool **unfold** () const
- int **currentSize** () const
- void **setCurrentSize** (int t)
- void **setIndex** (int i)
- int **index** () const
- void **moveTo** (int i, bool inert=true)
- void **setLength** (int l)

Properties

- bool **unfold**
- int **currentSize**

8.5.1 Detailed Description

The [BDock](#) class is the container for widget to display in a [BDocksZone](#).

A [BDock](#) is composed of a title and a [QScrollArea](#) in which a [BDockWidget](#) is displayed.

This container is movable within the [BDocksZone](#) it belongs to, and it can be hide.

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

- [src/editor/GUI/Tabs/Docks/bdock.h](#)
- [src/editor/GUI/Tabs/Docks/bdock.cpp](#)

8.6 BDocksZone Class Reference

Public Types

- enum [ScrollBarMode](#) { [AlwaysVisible](#), [Adjustable](#), [Fixed](#) }

The [ScrollBarMode](#) enum describe the way the [BDocksZone](#) reacts when a scroll bar is needed.

Public Slots

- void **swap** (bool anim=true)

Public Member Functions

- **BDocksZone** (QWidget *parent=0)
- void **setUnfold** (bool u, bool anim=true)
- const [BinaryStateMachine](#) * **states** () const
- int **length** () const
- void **setLength** (int t)
- [ScrollBarMode](#) **scrollBarMode** () const
- void **setScrollBarMode** ([ScrollBarMode](#) m)
- int **currentLength** () const
- void **addDock** (QString title, [BDockWidget](#) *dock)

Protected Slots

- void **setCurrentLenght** (int t)

Properties

- int **length**
- int **currentLength**

8.6.1 Member Enumeration Documentation

8.6.1.1 enum BDocksZone::ScrollBarMode

The ScrollBarMode enum describe the way the [BDocksZone](#) reacts when a scroll bar is needed.

Enumerator:

AlwaysVisible Always show the scroll bar, even if it is useless

Adjustable Show the scroll bar when needed, adaptating the docks length

Fixed Show the scroll bar when needed, keeping the docks length fixed

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

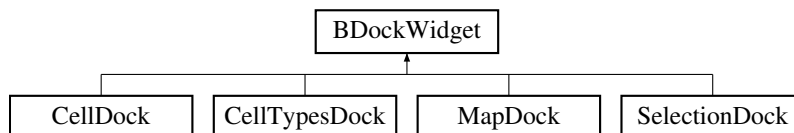
- src/editor/GUI/Tabs/Docks/bdockszone.h
- src/editor/GUI/Tabs/Docks/bdockszone.cpp

8.7 BDockWidget Class Reference

The [BDockWidget](#) class is the base class for game-related docks.

```
#include <bdockwidget.h>
```

Inheritance diagram for BDockWidget:



Public Slots

- virtual void **updateGame** ()

Signals

- void **gameModified** ()
- void **changeDockName** (QString)

Public Member Functions

- **BDockWidget** (QWidget *parent=0)
- void **setGame** ([Game](#) *g)

Protected Attributes

- [Game](#) * **game**

8.7.1 Detailed Description

The [BDockWidget](#) class is the base class for game-related docks.

It provides common functions for set game, update, ...

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

- src/editor/GUI/Tabs/Docks/bdockwidget.h
- src/editor/GUI/Tabs/Docks/bdockwidget.cpp

8.8 BinaryStateMachine Class Reference

The [BinaryStateMachine](#) class is a simple QStateMachine with two states.

```
#include <intertie.h>
```

Public Slots

- void **swap** ()
- void **setPositive** (bool p)
- void **setNegative** (bool n)

Signals

- void **swapped** (bool)
- void **__swap** ()

Public Member Functions

- **BinaryStateMachine** (QObject *parent=0)
- void **defineProperty** (QObject *obj, const char *prop)
- void **defineProperty** (QObject *obj, const char *prop, QVariant yesValue, QVariant noValue)
- bool **isPositive** () const
- bool **isNegative** () const

8.8.1 Detailed Description

The [BinaryStateMachine](#) class is a simple QStateMachine with two states.

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

- src/editor/GUI/Tabs/Docks/intertie.h
- src/editor/GUI/Tabs/Docks/intertie.cpp

8.9 BLayout Class Reference

Signals

- void **sizeChanged** (int)
- void **showPoint** (int, int)

Public Member Functions

- **BLayout** (QWidget *parent=0)
- void **setOrientation** (Qt::Orientation o)
- void **insert** ([BDock](#) *d, int ind=-1)
- void **setSpacing** (int e)
- void **setLength** (int t)
- int **spacing** () const

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

- src/editor/GUI/Tabs/Docks/bdockszone.h
- src/editor/GUI/Tabs/Docks/bdockszone.cpp

8.10 src.world.Cell Class Reference

Public Member Functions

- def **__init__**

Public Attributes

- **entities**
- **objects**

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

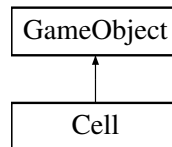
- src/world.py

8.11 Cell Class Reference

The [Cell](#) class.

```
#include <map.h>
```

Inheritance diagram for Cell:



Public Member Functions

- **Cell** ([Game](#) *g=nullptr, [GameObject](#) *parent=nullptr)
- bool **isSelected** () const
- void **setSelected** (bool s=true)
- void **invertSelected** ()
- void **addSelection** ()
- bool **isPreSelected** () const
- void **confirmPreSelection** (bool add=true)
- void **clearPreSelection** ()

Public Attributes

- ObjectListD(o, O, bject,, s, [Object](#)) private int **nbSel**
- bool **selectMod**

8.11.1 Detailed Description

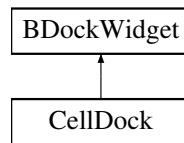
The [Cell](#) class.

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

- src/editor/Game/[map.h](#)
- src/editor/Game/map.cpp

8.12 CellDock Class Reference

Inheritance diagram for CellDock:



Public Slots

- void **updateGame** ()
- void **selectionChanged** ()

Public Member Functions

- **CellDock** (QWidget *parent=0)

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

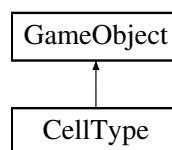
- src/editor/GUI/Tabs/celldock.h
- src/editor/GUI/Tabs/celldock.cpp

8.13 CellType Class Reference

The [CellType](#) class.

```
#include <map.h>
```

Inheritance diagram for CellType:



Public Member Functions

- **CellType** ([Game](#) *g, [GameObject](#) *parent)

8.13.1 Detailed Description

The [CellType](#) class.

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

- [src/editor/Game/map.h](#)
- [src/editor/Game/map.cpp](#)

8.14 CellTypeListModel Class Reference

The [CellTypeListModel](#) class.

```
#include <mapslistmodel.h>
```

Public Member Functions

- **CellTypeListModel** ([World](#) *w, QObject *parent=0)
- int **rowCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- QVariant **data** (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- bool **insertRows** (int row, int count, const QModelIndex &parent) Q_DECL_OVERRIDE
- bool **removeRows** (int row, int count, const QModelIndex &parent) Q_DECL_OVERRIDE

8.14.1 Detailed Description

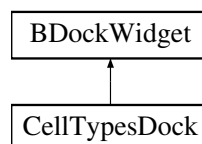
The [CellTypeListModel](#) class.

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

- [src/editor/Game/mapslistmodel.h](#)
- [src/editor/Game/mapslistmodel.cpp](#)

8.15 CellTypesDock Class Reference

Inheritance diagram for CellTypesDock:



Public Member Functions

- **CellTypesDock** (QWidget *parent=0)
- void **updateGame** ()

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

- src/editor/GUI/Tabs/celltypesdock.h
- src/editor/GUI/Tabs/celltypesdock.cpp

8.16 src.character.Character Class Reference

Public Member Functions

- def `__init__`
- def `render`
- def `update`
- def `update_skin`
- def `zoom`
- def `set_path`
- def `make_skin`
- def `get_cell_pos_by_index`
- def `move`

Public Attributes

- `skin`
- `name`
- `action`
- `scale`
- `orientation`
- `image`
- `current_image`
- `game_frame_count`
- `anim_frame_count`
- `current_cell`
- `path`
- `pos_offset`

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

- src/character.py

8.17 src.chunk.Chunk Class Reference

Public Member Functions

- def `__init__`

- def **init_chunk**
- def **render**
- def **scale_chunk**
- def **update**
- def **click_trigger**
- def **set_state**
- def **get_state**

Public Attributes

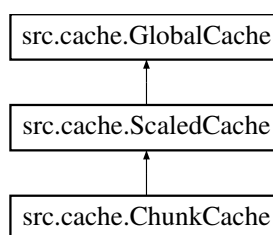
- **index**
- **cells**
- **g_width**
- **g_height**
- **scale**
- **width**
- **height**
- **pos**
- **rect**
- **layers**
- **image**

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

- `src/chunk.py`

8.18 `src.cache.ChunkCache` Class Reference

Inheritance diagram for `src.cache.ChunkCache`:



Public Member Functions

- def **init_chunk**
- def **init_elts**
- def **init_chunks**
- def **get_chunk**
- def **add_scaled**

Static Public Attributes

- dictionary **cache** = {}

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

- src/cache.py

8.19 CCoords Class Reference

The [CCoords](#) class describe positions with cell coordinates.

```
#include <mappainter.h>
```

Public Member Functions

- **CCoords** (qreal x, qreal y)
- **CCoords** (const QPointF &p)

8.19.1 Detailed Description

The [CCoords](#) class describe positions with cell coordinates.

Theses coordinates describe each point relatively to the cell grid. They correspond to the isometric 3D world.

See also

[RCoords](#), [PtCoords](#), [PxCoords](#)

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

- src/editor/Game/[mappainter.h](#)

8.20 src.client.Client Class Reference

Public Member Functions

- def [__init__](#)
- def [__del__](#)
- def [run](#)
- def [frame_counter](#)
- def [update_view](#)
- def [get_conf_file](#)
- def [get_conf](#)
- def [init_cache](#)
- def [handleOrder](#)

Public Attributes

- `net`
- `screen_size`
- `screen`
- `world`
- `interface`
- `interactions`
- `perso`
- `orderDispatcher`
- `background`
- `conf`

8.20.1 Constructor & Destructor Documentation

8.20.1.1 `def src.client.Client.__init__(self, path)`

Initialize the client

8.20.1.2 `def src.client.Client.__del__(self)`

Kill network and interface

8.20.2 Member Function Documentation

8.20.2.1 `def src.client.Client.frame_counter(self, n)`

Generator that returns True every n calls

8.20.2.2 `def src.client.Client.get_conf(self, conf, type = str)`

Return value of parameter conf in loaded conf file

8.20.2.3 `def src.client.Client.get_conf_file(self, path)`

Load path. Path should be a .ini file

8.20.2.4 `def src.client.Client.handleOrder(self, ident, order)`

Handle the given order on object ident

8.20.2.5 `def src.client.Client.init_cache (self)`

Initialize cache with the images we will need

8.20.2.6 `def src.client.Client.run (self)`

Start the game and loops until we exit it

8.20.2.7 `def src.client.Client.update_view (self, mouse_pos, mov_speed_x, mov_speed_y, deltat)`

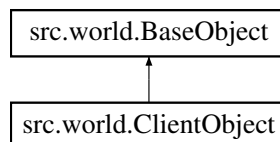
Returns new scrolling speed and the rectangle that have been changed and moves the map accordingly

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

- src/client.py

8.21 `src.world.ClientObject` Class Reference

Inheritance diagram for `src.world.ClientObject`:



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

- src/world.py

8.22 `Editor` Class Reference

The `Editor` class is the main window of the `Editor`.

```
#include <editor.h>
```

Public Member Functions

- `Editor` (QStringList args, QWidget *parent=0)

8.22.1 Detailed Description

The [Editor](#) class is the main window of the [Editor](#).

It is composed of tabs that offer editing facilities.

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

- `src/editor/GUI/editor.h`
- `src/editor/GUI/editor.cpp`

8.23 `src.world.Entity` Class Reference

Public Member Functions

- `def __init__`

Public Attributes

- `quests`
- `inventory`

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

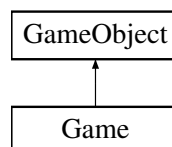
- `src/world.py`

8.24 `Game` Class Reference

The [Game](#) class gather the differents parts needed to describe a game.

```
#include <game.h>
```

Inheritance diagram for `Game`:



Public Member Functions

- `int newIdent ()`
- `World * world ()`
- `Map * currentMap ()`
- `void setCurrentMap (Map *m)`
- `void addImage (Image *im)`

8.24.1 Detailed Description

The [Game](#) class gather the differents parts needed to describe a game.

It contains mainly the [World](#), and the ressources used by it (images and strings)

For editing purposes, it contains also the active map (the one being editing)

8.24.2 Member Function Documentation

8.24.2.1 `int Game::newIdent () [inline]`

Returns a new unused identifiers

Note

It should only be used by [GameObject](#) methods [GameObject::init](#) and [GameObject::GameObject](#).

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

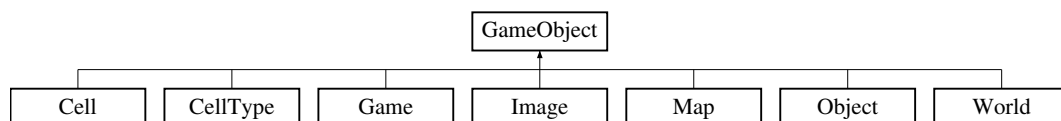
- [src/editor/Game/game.h](#)
- [src/editor/Game/game.cpp](#)

8.25 GameObject Class Reference

The [GameObject](#) class is the base class for every part of games.

```
#include <object.h>
```

Inheritance diagram for [GameObject](#):



Public Member Functions

- [GameObject](#) ([Game](#) *g=nullptr, [GameObject](#) *parent=nullptr)
- void [init](#) ([Game](#) *g, [GameObject](#) *p)
- virtual bool [isValid](#) () const
- int [ident](#) () const
- const QDateTime & [lastInternalEdition](#) () const
- const QDateTime & [lastChildrenEdition](#) () const
- const QDateTime & [lastEdition](#) () const

- int [getParam](#) (const QString &p) const
- void [setParam](#) (const QString &p, int v)
- bool [hasParam](#) (const QString &p) const
- QList< QString > [params](#) () const
- bool [getFlag](#) (const QString &f) const
- void [setFlag](#) (const QString &f, bool v)
- bool [hasFlag](#) (const QString &f) const
- QList< QString > [flags](#) () const
- void [touch](#) ()
- void **addReference** ()
- void **removeReference** ()
- void **setParent** ([GameObject](#) *p)

Protected Member Functions

- void **addChild** ([GameObject](#) *c)
- void **removeChild** ([GameObject](#) *c)
- void **childrenTouched** (const QDateTime &d)

Protected Attributes

- [GameObject](#) * **parent**
- QMap< int, [GameObject](#) * > **children**
- [Game](#) * **game**
- int **id**
- int **nbRef**
- QMap< QString, int > **aParams**
- QMap< QString, bool > **aFlags**
- QString **fileName**
- QDateTime **lastEdit**
- QDateTime **lastChildEdit**

8.25.1 Detailed Description

The [GameObject](#) class is the base class for every part of games.

Each instance is identified by a game-wide unique identifier.

Object edition notification mechanism

To make the edition easier, each [GameObject](#) contains two QDateTime values :

- The most recent edition time, which is updated by the [touch](#) method
- The most recent child edition time, also updated by the [touch](#) method

Note

If the changes that are made in the object have to be detected by display/edition widgets, the [touch](#) function should be called.

To prevent the notification chain to be broken, the existing objects should always have a parent (except for the root object). This can be achieved using the [init](#) or [setParent](#) method, when the parent have not been given in the constructor. (see [object.h](#) for details)

References count

Todo**8.25.2 Constructor & Destructor Documentation**

8.25.2.1 `GameObject::GameObject (Game * g = nullptr, GameObject * parent = nullptr)`

Constructs a new [GameObject](#) with parent `parent` and the reference to the game `g`.

Note

If these objects cannot be given to the constructor (case of an array of objects), the [init](#) method must be called after the creation to make the [GameObject](#) valid.

8.25.3 Member Function Documentation

8.25.3.1 `QList<QString> GameObject::flags () const [inline]`

Returns the list of the registered flags

See also

[getFlag](#), [setFlag](#), [params](#)

8.25.3.2 `bool GameObject::getFlag (const QString & f) const [inline]`

Returns the value of the `f` flag.

Note

If the requested parameter does not exists, a `false` value is returned, and the flags map stay unchanged

See also

[flags](#), [hasFlag](#), [setFlag](#), [getParam](#)

8.25.3.3 `int GameObject::getParam (const QString & p) const` [inline]

Returns the value of the `p` parameter.

Note

If the requested parameter does not exists, a null value is returned, and the parameters map stay unchanged

See also

[params](#), [hasParam](#), [setParam](#), [getFlag](#)

8.25.3.4 `bool GameObject::hasFlag (const QString & f) const` [inline]

Returns true if the flag `f` is register in the object's flags.

See also

[getFlag](#), [setFlag](#), [hasParam](#)

8.25.3.5 `bool GameObject::hasParam (const QString & p) const` [inline]

Returns true if the parameter `is` register in the object's parameters.

See also

[getParam](#), [setParam](#), [hasFlag](#)

8.25.3.6 `int GameObject::ident () const` [inline]

Returns the name wide unique identifier of the object.

See also

[init](#), [GameObject](#)

8.25.3.7 `void GameObject::init (Game * g, GameObject * p)`

Initialises the object in case it had been construct with a NULL pointer (array of objects)

See also

[isValid](#), [GameObject](#)

8.25.3.8 `virtual bool GameObject::isValid () const` `[inline, virtual]`

Returns true if the object has been initialised

See also

[init](#), [GameObject](#)

Reimplemented in [Image](#).

8.25.3.9 `const QDateTime& GameObject::lastChildrenEdition () const` `[inline]`

Returns the last time one of the object's children has been modified.

See also

[lastEdition](#), [lastInternalEdition](#)

8.25.3.10 `const QDateTime& GameObject::lastEdition () const` `[inline]`

Returns the last time a modification was made on the object or one of its children.

See also

[lastInternalEdition](#), [lastChildrenEdition](#)

8.25.3.11 `const QDateTime& GameObject::lastInternalEdition () const` `[inline]`

Returns the last edition time.

See also

[lastEdition](#), [lastChildrenEdition](#)

8.25.3.12 `QList<QString> GameObject::params () const` `[inline]`

Returns the list of the registered paramters

See also

[getParam](#), [setParam](#), [flags](#)

8.25.3.13 void GameObject::setFlag (const QString & *f*, bool *v*) [inline]

Set the value of the *f* flag.

Note

If the requested flag does not exists, it is created.

See also

[flags](#), [hasFlag](#), [getFlag](#), [setParam](#)

8.25.3.14 void GameObject::setParam (const QString & *p*, int *v*) [inline]

Set the value of the *p* parameter.

Note

If the requested parameter does not exists, it is created.

See also

[params](#), [hasParam](#), [getParam](#), [setFlag](#)

8.25.3.15 void GameObject::touch ()

Notify the object and its parent that it has been modified.

See also

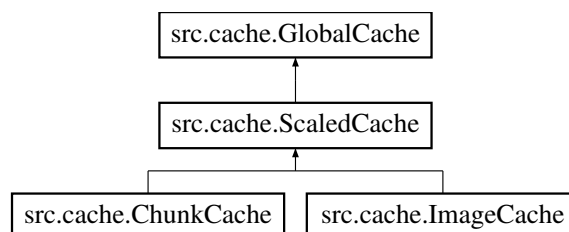
[lastInternalEdition](#), [lastChildrenEdition](#), [lastEdition](#).

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

- [src/editor/Game/object.h](#)
- [src/editor/Game/object.cpp](#)

8.26 src.cache.GlobalCache Class Reference

Inheritance diagram for src.cache.GlobalCache:



Public Member Functions

- def **__init__**
- def **set**
- def **get**
- def **clear**
- def **keys**
- def **show**

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

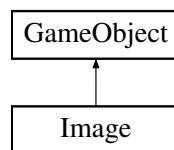
- src/cache.py

8.27 Image Class Reference

The [Image](#) class stores an external file in a QImage, and gives each image resources a unique identifier.

```
#include <object.h>
```

Inheritance diagram for Image:



Public Member Functions

- **Image** ([Game](#) *g, [GameObject](#) *parent, const QString &fileName)
- bool **isValid** () const
- const QImage & **image** () const
- const QSize **size** () const
- void **update** ()

8.27.1 Detailed Description

The [Image](#) class stores an external file in a QImage, and gives each image resources a unique identifier.

8.27.2 Member Function Documentation

8.27.2.1 bool **Image::isValid** () const `[inline, virtual]`

Returns true if the object has been initialised

See also

[init](#), [GameObject](#)

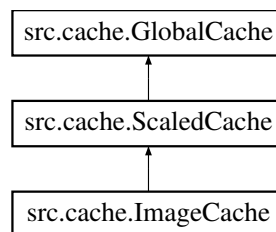
Reimplemented from [GameObject](#).

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

- [src/editor/Game/object.h](#)
- [src/editor/Game/object.cpp](#)

8.28 src.cache.ImageCache Class Reference

Inheritance diagram for `src.cache.ImageCache`:



Public Member Functions

- def **init_image_from_file**
- def **init_image_from_surface**
- def **get_image**
- def **init_elts**
- def **init_images**
- def **add_scaled**

Static Public Attributes

- dictionary **cache** = {}

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

- [src/cache.py](#)

8.29 src.interactions.Interaction Class Reference

Public Member Functions

- def **__init__**
- def **load**

Public Attributes

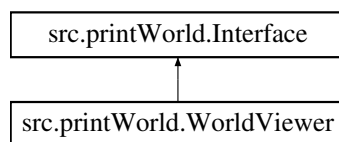
- **target**
- **type**
- **key**
- **event**

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

- src/interactions.py

8.30 src.printWorld.Interface Class Reference

Inheritance diagram for src.printWorld.Interface:



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

- src/printWorld.py

8.31 Intertie Class Reference

The [Intertie](#) class provide int that move smoothly from their value to an objective.

```
#include <intertie.h>
```

Public Slots

- void **setValue** (int v, bool inert=true)
- void **setMaximumSpeed** (int vM)
- void **setAcceleration** (int a)
- void **setUpdateInterval** (int d)

Signals

- void **modificationFinished** (int)
- void **valueChanged** (int)

Public Member Functions

- **Intertie** (QObject *parent=0)
- int **value** () const
- void **link** (QObject *obj, const char *prop)

8.31.1 Detailed Description

The [Intertie](#) class provide int that move smoothly from their value to an objective.

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

- src/editor/GUI/Tabs/Docks/intertie.h
- src/editor/GUI/Tabs/Docks/intertie.cpp

8.32 src.layer.Layer Class Reference

Public Member Functions

- def **__init__**
- def **render**
- def **update**
- def **get_cell_pos**
- def **make_grid**
- def **update_cell**
- def **update_grid**
- def **zoom**

Public Attributes

- **cells**
- **scale**
- **g_width**
- **g_height**
- **size**

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

- src/layer.py

8.33 src.world.Map Class Reference

Public Member Functions

- def **__init__**
- def **fill**

Public Attributes

- **cells**
- **cellsGrid**

8.33.1 Member Function Documentation

8.33.1.1 `def src.world.Map.fill (self)`

Complète les cases par défaut

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

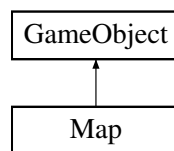
- `src/world.py`

8.34 Map Class Reference

The [Map](#) class.

```
#include <map.h>
```

Inheritance diagram for Map:



Public Member Functions

- **Map** (`Game *g`, `GameObject *parent`)
- **ParamGetter** (`width`) `ParamGetter(height)` `QSize size()` `const`
- void **setWidth** (`int w`)
- void **setHeight** (`int h`)
- void **resize** (`int w`, `int h`)
- `Cell & cell` (`int i`, `int j`) `const`
- `Cell & cell` (`const QPoint &p`) `const`
- void **selectAll** ()
- void **unselectAll** ()
- void **confirmPreSelection** (`bool add=true`)
- void **clearPreSelection** ()

8.34.1 Detailed Description

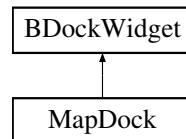
The [Map](#) class.

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

- [src/editor/Game/map.h](#)
- [src/editor/Game/map.cpp](#)

8.35 MapDock Class Reference

Inheritance diagram for MapDock:



Public Member Functions

- **MapDock** (QWidget *parent=0)
- void **updateGame** ()

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

- [src/editor/GUI/Tabs/mapdock.h](#)
- [src/editor/GUI/Tabs/mapdock.cpp](#)

8.36 MapPainter Class Reference

The [MapPainter](#) class that can paint a [Map](#) using a QPainter.

```
#include <mappainter.h>
```

Public Types

- enum [Element](#) { [Nothing](#) = 0, [CellBackground](#) = 1, [Grid](#) = 2, [CellSelection](#) = 4, [CellHighlighting](#) = 8, [Objects](#) = 16, [All](#) = 31 }

The Element enum describes the different elements that can be render.

Signals

- void [mapSizeChanged](#) (QSize)
- void [viewCenterChanged](#) (QPoint)

Public Member Functions

- [MapPainter](#) (QObject *parent=0)
- [MapPainter](#) ([Map](#) *m, QObject *parent=0)
- void [setPaintedElement](#) ([Element](#) e, bool painted=true)
- void [setPaintedElements](#) ([Element](#) e)
- void [setMap](#) ([Map](#) *m)
- void [paint](#) (QPainter &p)
- const QImage & [render](#) ()
- [RlCoords](#) [viewCenter](#) () const
- void [setViewCenter](#) ([RlCoords](#) relativeCenter)
- void [setViewCenter](#) (double relativeCenterX, double relativeCenterY)
- void [setViewCenterQuiet](#) (double x, double y)
- double [scale](#) () const
- void [setScale](#) (double [scale](#))
- void [setScaleDomain](#) (double scaleMin, double scaleMax)
- bool [setHighlightedCell](#) (const [ClCoords](#) &p)
- bool [setHighlightedCell](#) (int i, int j)
- QPoint [highlightedCell](#) () const
- bool [hasHighlightedCell](#) () const
- bool [isCell](#) (const [ClCoords](#) &c) const
- void [resize](#) (QSize s)
- void [resize](#) (int wi, int he)
- QSize [size](#) () const
- void [zoom](#) (double factor, QPointF fixedPoint)
- QPair< bool, bool > [move](#) ([PxCoords](#) delta, QPointF center)
- QSize [virtualSize](#) () const
- [PxCoords](#) [ptToPxl](#) ([PtCoords](#) p) const
- [PtCoords](#) [pxlToPt](#) ([PxCoords](#) p) const
- [PtCoords](#) [cooToPt](#) ([ClCoords](#) p) const
- [ClCoords](#) [ptToCoo](#) ([PtCoords](#) p) const
- [PxCoords](#) [cooToPxl](#) ([ClCoords](#) p) const
- [ClCoords](#) [pxlToCoo](#) ([PxCoords](#) p) const
- [PtCoords](#) [indToPt](#) (int i, int j) const
- const QColor & [selectedCellColor](#) () const
- const QColor & [preSelectedCellColor](#) () const
- void [setSelectedCellColor](#) (const QColor &c)
- void [setPreSelectedCellColor](#) (const QColor &c)

8.36.1 Detailed Description

The [MapPainter](#) class that can paint a [Map](#) using a QPainter.

The class take charge of the different ratios of the [map](#) rendering and the area in which it will be rendered.

Note

The view is kept updated with the associated [map](#) at each [paint](#) or [render](#) call. It is thus just needed to call one of these functions to update the view after a modification.

To ensure a type checking security about the different types of coordinates that are used, four different types that inherit from `QPointF` are used : [RlCoords](#), [ClCoords](#), [PtCoords](#) and [PxCoords](#)

8.36.2 Member Enumeration Documentation**8.36.2.1 enum `MapPainter::Element`**

The `Element` enum describes the different elements that can be render.

This includes both map's objects and user interaction and editing elements.

`Element` value can be used as flags using the operators `operator|` `"|"`, `operator&` `"&"`, `operator^` `"^"`.

See also

[Cell](#), [CellType](#)

Enumerator:

Nothing Represent no elements

CellBackground The background associated to the [cell type](#)

Grid A thin grid that separate [cells](#)

CellSelection Graphical information about the selection state

CellHighlighting Graphical visualisation of the [cells](#) the mouse is over

Objects The objects that lay on the [cells](#)

All Represent all elements

8.36.3 Constructor & Destructor Documentation**8.36.3.1 `MapPainter::MapPainter (QObject * parent = 0)`**

Constructs a new [MapPainter](#) with a default size of (42,42).

8.36.3.2 `MapPainter::MapPainter (Map * m, QObject * parent = 0)`

Constructs a new [MapPainter](#) with a default size of (42,42), and loads the [map](#) `m`.

8.36.4 Member Function Documentation

8.36.4.1 PtCoords MapPainter::cooToPt (CCoords *p*) const

Converts cells indice to virtual point coordinates

8.36.4.2 PxCoords MapPainter::cooToPxl (CCoords *p*) const

Convenient function equivalent to [ptToPxl\(cooToPt\(p\)\)](#)

8.36.4.3 bool MapPainter::hasHighlightedCell () const

Returns true if a [cell](#) is highlighted.

See also

[highlightedCell](#), [setHighlightedCell](#)

8.36.4.4 QPoint MapPainter::highlightedCell () const

Returns the integer index of the [cell](#) the is highlighted.

See also

[setHighlightedCell](#), [hasHighlightedCell](#)

8.36.4.5 PtCoords MapPainter::indToPt (int *i*, int *j*) const

Converts to coordinates

8.36.4.6 bool MapPainter::isCell (const CCoords & *c*) const

Returns true if the coordinate *c* correspond to a [cell](#).

8.36.4.7 void MapPainter::mapSizeChanged (QSize) [signal]

This signal is emitted when the total size of the [map](#)'s view change.

It appends mainly during scale change and modification on the [map](#) (resize, angles setting, ...).

8.36.4.8 `QPair< bool, bool > MapPainter::move (PxCoords delta, QPointF center)`

Change the center position from the given center and a pixel difference.

The return value indicate if the expected center was valid (regarding x or y coordinate).

See also

[setViewCenter](#)

8.36.4.9 `void MapPainter::paint (QPainter & p)`

Draws the map in the QPaintDevice.

See also

[render](#)

8.36.4.10 `const QColor & MapPainter::preSelectedCellColor () const`

Returns the color of the filter that is applied to pre-selected cells.

See also

[setPreSelectedCellColor](#), [selectedCellColor](#)

8.36.4.11 `CICoords MapPainter::ptToCoo (PtCoords p) const`

Converts virtual point to cell indice

8.36.4.12 `PxCoords MapPainter::ptToPxl (PtCoords p) const`

Converts virtual point to real pixel coordinates

8.36.4.13 `CICoords MapPainter::pxlToCoo (PxCoords p) const`

Convenient function equivalent to [ptToCoo](#)([pxlToPt](#)(*p*))

8.36.4.14 `PtCoords MapPainter::pxlToPt (PxCoords p) const`

Converts real pixel to virtual point coordinates

8.36.4.15 `const QImage & MapPainter::render ()`

Provides a QImage with a view of the map.

See also

[paint](#)

8.36.4.16 `void MapPainter::resize (QSize s)`

Change the size of the view, *ie* the rectangle in which the map will be render.

See also

[size](#)

8.36.4.17 `void MapPainter::resize (int wi, int he)`

This is an overload function, see [resize](#)

8.36.4.18 `double MapPainter::scale () const`

Returns the current scale of the view.

See also

[setScale](#)

8.36.4.19 `const QColor & MapPainter::selectedCellColor () const`

Returns the color of the filter that is applied to selected cells.

See also

[setSelectedCellColor](#), [preSelectedCellColor](#)

8.36.4.20 `bool MapPainter::setHighlightedCell (const CCoords & p)`

Sets the highlighed [cell](#) to the one at the [CCoords](#) p

See also

[highlightedCell](#), [hasHighlightedCell](#)

8.36.4.21 `bool MapPainter::setHighlightedCell (int i, int j)`

This is an overload function, see [setViewCenter](#).

8.36.4.22 `void MapPainter::setMap (Map * m)`

Loads the [map](#), computing the new size of the view area.

8.36.4.23 `void MapPainter::setPaintedElement (MapPainter::Element e, bool painting = true)`

Enables or disables the render of an [element](#).

See also

[setPaintedElements](#)

8.36.4.24 `void MapPainter::setPaintedElements (Element e)`

Sets the rendered [elements](#).

See also

[setPaintedElement](#)

8.36.4.25 `void MapPainter::setPreSelectedCellColor (const QColor & c)`

Sets the color of the filter that is applied to pre-selected cells.

See also

[preSelectedCellColor](#), [setSelectedCellColor](#)

8.36.4.26 `void MapPainter::setScale (double scale)`

Sets the current view scale. This closest value in the scale domain will be used.

See also

[scale](#), [setScaleDomain](#)

8.36.4.27 void **MapPainter::setScaleDomain** (double *scaleMin*, double *scaleMax*)

Sets the valid values for the scale.

See also

[scale](#), [setScale](#)

8.36.4.28 void **MapPainter::setSelectedCellColor** (const QColor & *c*)

Sets the color of the filter that is applied to selected cells.

See also

[selectedCellColor](#), [setPreSelectedCellColor](#)

8.36.4.29 void **MapPainter::setViewCenter** (RCoords *relativeCenter*)

Change the view center, using relative coordinates.

If the new center is invalid (the view exceed the map area), the closest valid center is used.

See also

[viewCenter](#)

8.36.4.30 void **MapPainter::setViewCenter** (double *relativeCenterX*, double *relativeCenterY*)

This is an overload function, see [setViewCenter](#).

8.36.4.31 void **MapPainter::setViewCenterQuiet** (double *x*, double *y*)

does the same as [setViewCenter](#), without emitting the signal `viewCenterChanged` to avoid event loop.

8.36.4.32 QSize **MapPainter::size** () const

Return the size of the rectangle in which the map is render. This is also the size of the image returned by [render](#).

See also

[resize](#)

8.36.4.33 **RICoords** **MapPainter::viewCenter** () const

Return the relative coordinates of the current view center.

See also

[setViewCenter](#)

8.36.4.34 **void** **MapPainter::viewCenterChanged** (**QPoint**) [signal]

This signal is emitted when the center of the [map](#) change.

It appends mainly during moving on the view and zooming.

8.36.4.35 **QSize** **MapPainter::virtualSize** () const

Computes the total size of the image of the map

8.36.4.36 **void** **MapPainter::zoom** (*double factor*, *QPointF fixedPoint*)

Multiplying the scale of the view by factor, trying to leave the point center at the same position.

Note

It is not always possible to keep this point fixed, in particular when the view is resulting view would exceed the map region. In that case, the center is adapt to minimise the difference.

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

- [src/editor/Game/mappainter.h](#)
- [src/editor/Game/mappainter.cpp](#)

8.37 **MapsEditor** Class Reference

The [MapsEditor](#) class is the tab offering map editing facilities.

```
#include <mapseditor.h>
```

Public Slots

- **void** **updateGame** ()

Public Member Functions

- **MapsEditor** (QWidget *parent=0)
- void **setGame** (Game *g)

8.37.1 Detailed Description

The [MapsEditor](#) class is the tab offering map editing facilities.

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

- src/editor/GUI/Tabs/mapseditor.h
- src/editor/GUI/Tabs/mapseditor.cpp

8.38 MapsListModel Class Reference

The [MapsListModel](#) class provides a presentation class for the Qt Model-View framework.

```
#include <mapslistmodel.h>
```

Public Slots

- void **update** ()

Public Member Functions

- **MapsListModel** (World *w, QObject *parent=0)
- int **rowCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- QVariant **data** (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- bool **insertRows** (int row, int count, const QModelIndex &parent) Q_DECL_OVERRIDE
- bool **removeRows** (int row, int count, const QModelIndex &parent) Q_DECL_OVERRIDE

8.38.1 Detailed Description

The [MapsListModel](#) class provides a presentation class for the Qt Model-View framework.

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

- src/editor/Game/[mapslistmodel.h](#)
- src/editor/Game/mapslistmodel.cpp

8.39 MapViewer Class Reference

The [MapViewer](#) class provides a widget to display and edit a [Map](#) using a [MapPainter](#).

```
#include <mapviewer.h>
```

Public Types

- enum [SelectionMode](#) { [PencilSelection](#), [RectangleSelection](#), [RegionSelection](#) }
- The SelectionMode enum describes the different behaviour the cell selection can have.*

Public Slots

- void **updateRequest** ()

Signals

- void **viewSizeChanged** (QSize)
- void **selectionChanged** ()

Public Member Functions

- **MapViewer** (QWidget *parent=0)
- void **setMap** ([Map](#) *m)
- void **updateMap** ()
- [MapPainter](#) & **mapPainter** ()
- void **setSelectionMode** ([SelectionMode](#) m)
- [SelectionMode](#) **selectionMode** () const

8.39.1 Detailed Description

The [MapViewer](#) class provides a widget to display and edit a [Map](#) using a [MapPainter](#).

Several [selection modes](#) are available. Combined with the “Ctrl” and “Shift” modifiers, a colossal amount of selection possibilities is offered. See [SelectionMode](#) for more information.

8.39.2 Member Enumeration Documentation

8.39.2.1 enum MapViewer::SelectionMode

The SelectionMode enum describes the different behaviour the cell selection can have.

The selection’s behaviour is based on two parameters :

- The keyboard modifiers that are pressed during selection.
- The current selection mode

If the “Ctrl” modifier is pressed, the past selected cells stay selected otherwise, they are all unselected

If the “Shift” modifier is pressed, the selection is inverted.

Three modes of selection exists :

Enumerator:

PencilSelection The [cells](#) under the cursor are selected

RectangleSelection The [cells](#) inside the rectangle defined by the clicked cell and the cell under the cursor are selected

RegionSelection The [cells](#) inside the region drawn by cursor's moves are selected

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

- src/editor/GUI/Tabs/mapviewer.h
- src/editor/GUI/Tabs/mapviewer.cpp

8.40 src.map.MapViewer Class Reference

Public Member Functions

- def **__init__**
- def **load_chunks**
- def **make_walkables**
- def **zoom**
- def **move**
- def **render**
- def [neighbors_chunk](#)
- def **onscreen_chunks**
- def **update**
- def **propagate_trigger**
- def **compute_path**
- def **load_bg**

Public Attributes

- **map**
- **world**
- **scale**
- **cm_height**

- **width**
- **height**
- **walkablesGraph**
- **current_chunk**
- **pos_offset**
- **chunk_pos**
- **chunks_state**

8.40.1 Member Function Documentation

8.40.1.1 `def src.map.MapViewer.neighbors_chunk (self, chunk)`

Returns indexes of the neighbors of chunk and index of chunk

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

- `src/map.py`

8.41 `src.network.NetworkClient` Class Reference

Inherits Thread.

Public Member Functions

- `def __init__`
- `def run`
- `def send`
- `def sendEvent`
- `def kill`

Public Attributes

- **handle**
- **soc**
- **alive**

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

- `src/network.py`

8.42 `src.networkudp.NetworkClient` Class Reference

Inherits Thread.

Public Member Functions

- def **__init__**
- def **run**
- def **send**
- def **sendEvent**
- def **kill**

Public Attributes

- **handle**
- **soc**
- **alive**

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

- src/networkudp.py

8.43 src.network.NetworkServer Class Reference

Inherits Thread.

Public Member Functions

- def **__init__**
- def **waitForClients**
- def **run**
- def **sendOrder**
- def **broadcast**
- def **kill**

Public Attributes

- **handle**
- **soc**
- **alive**
- **co**

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

- src/network.py

8.44 src.networkudp.NetworkServer Class Reference

Inherits Thread.

Public Member Functions

- def **__init__**
- def **waitForClients**
- def **run**
- def **sendOrder**
- def **broadcast**
- def **kill**

Public Attributes

- **handle**
- **soc**
- **alive**
- **addr**

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

- src/networkudp.py

8.45 NewGame Class Reference

Public Member Functions

- **NewGame** (QWidget *parent=0)
- QString **name** () const
- QString **folder** () const
- bool **createFolder** () const

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

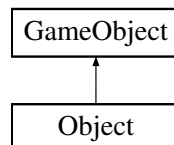
- src/editor/GUI/newgame.h
- src/editor/GUI/newgame.cpp

8.46 Object Class Reference

The [Object](#) class.

```
#include <object.h>
```

Inheritance diagram for Object:



Public Member Functions

- **Object** ([Game](#) *g, [GameObject](#) *parent)

8.46.1 Detailed Description

The [Object](#) class.

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

- src/editor/Game/[object.h](#)
- src/editor/Game/object.cpp

8.47 ObjectEditor Class Reference

Public Member Functions

- **ObjectEditor** (QWidget *parent=0)
- void **setGame** ([Game](#) *g)

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

- src/editor/GUI/Tabs/objecteditor.h
- src/editor/GUI/Tabs/objecteditor.cpp

8.48 ObjectFlagTableModel Class Reference

Public Member Functions

- **ObjectFlagTableModel** ([GameObject](#) *obj, QObject *parent=0)

- int **rowCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- int **columnCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- QVariant **data** (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- Qt::ItemFlags **flags** (const QModelIndex &index) const
- bool **setData** (const QModelIndex &index, const QVariant &value, int role)
- QVariant **headerData** (int section, Qt::Orientation orientation, int role) const

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

- src/editor/Game/[mapslistmodel.h](#)
- src/editor/Game/mapslistmodel.cpp

8.49 ObjectParamTableModel Class Reference

Public Member Functions

- **ObjectParamTableModel** ([GameObject](#) *obj, QObject *parent=0)
- int **rowCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- int **columnCount** (const QModelIndex &parent) const Q_DECL_OVERRIDE
- QVariant **data** (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- Qt::ItemFlags **flags** (const QModelIndex &index) const
- bool **setData** (const QModelIndex &index, const QVariant &value, int role)
- QVariant **headerData** (int section, Qt::Orientation orientation, int role) const

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

- src/editor/Game/[mapslistmodel.h](#)
- src/editor/Game/mapslistmodel.cpp

8.50 src.world.ObjectType Class Reference

Public Member Functions

- def **__init__**
- def **create**
- def **__str__**

Public Attributes

- **type**

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

- src/world.py

8.51 Options Struct Reference

The [Options](#) class provides session-independant options and preferences.

```
#include <options.h>
```

Public Member Functions

- `template<class T >`
`T load (QString group, QString opt)`
- `template<class T >`
`void save (QString group, QString opt, T val)`
- `template<class T >`
`void setDefault (QString group, QString opt, T val)`
- `bool isAdjustable (QString group, QString opt, bool adjust=true)`
- `void setAdjustable (QString group, QString opt, bool adjust)`
- `void reinitialise (QString group="")`

Static Public Member Functions

- `static Options & options ()`

8.51.1 Detailed Description

The [Options](#) class provides session-independant options and preferences.

Features

The [Options](#) class aims at storing global options, that are available at any place in the entire application. The preferences are permanantly stored and remain bewteen the separate sessions and windows.

Two sorts of options exist :

- The adjustable ones : the value of the option change when [save](#) is called.
- The non-adjustable ones : the value of the option doesn't change is [save](#) is called, the option must be modified with [reinitialise](#).

The sort of option can be set with the [setAdjustable](#) function.

Design

The [Options](#) class is designed following the `__Singleton` design pattern__. The constructor is thus private, and the only [Options](#) instance is created at the first call of [options](#).

QSetting is used internally, see Qt's documentation for details about the storing mechanisms.

Reading and writting existing options

To read or write options, the [Options](#) instance must be retrieved, using the [options](#) function, then the [load](#) and [save](#) functions can be called.

Adding options

To add a new option, it is only needed to add a default hard coded value, using the [Default](#) and [DefaultF](#) macros in the [Options](#) constructor.

It is strongly advice to use macro to define new options group (see [WIN](#), for an example).

Note

To use [Options](#) with custom types (other than “C++” standard), the defining header of the type must be included at the top of the [options.h](#) file, in order to be used in the default value declaration.

Warning

Pointer objects are not supported, and the result of the use of the [Options](#) class with such values is undefined.

See also

[options.h](#)

8.51.2 Member Function Documentation

8.51.2.1 `bool Options::isAdjustable (QString group, QString opt, bool adjust = true)`

Returns “true” if the option defined by its group and name is adjustable, “false” elsewhere.

See also

[setAdjustable](#)

8.51.2.2 `template<class T> T Options::load (QString group, QString opt) [inline]`

Reads an option defined by its group and name.

Note

The template argument must be precised since it can't be deduced from arguments' types.

Warning

If the option type and the reading type mismatch, an default null value is returned.

See also

[save](#)

8.51.2.3 Options & Options::options () [static]

Returns the unique [Options](#) instance.

8.51.2.4 void Options::reinitialise (QString group = " ")

Clear all options from the group. If “group == “”, all entries are deleted.

8.51.2.5 template<class T > void Options::save (QString group, QString opt, T val) [inline]

Writes the new value of the options defined by its group and name, if the option is adjustable. See [Options](#) for details about options types.

Note

The template argument can be omitted since it would be deduced from the value argument.

See also

[setDefault](#), [load](#)

8.51.2.6 void Options::setAdjustable (QString group, QString opt, bool adjust)

Sets if the option defined by its group and name is adjustable.

See also

[isAdjustable](#)

8.51.2.7 template<class T > void Options::setDefault (QString group, QString opt, T val) [inline]

Writes the new value of the options defined by its group and name, whatever the option type is. See [Options](#) for details about options types.

Note

The template argument can be omitted since it would be deduced from the value argument.

See also

[save](#), [load](#)

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

- [src/editor/GUI/options.h](#)
- [src/editor/GUI/options.cpp](#)

8.52 `src.orders.Order` Class Reference

Public Member Functions

- `def __init__`
- `def __getattr__`
- `def __setattr__`
- `def copy`
- `def load`
- `def toBytes`
- `def fromBytes`

Public Attributes

- `type`
- `args`

Static Public Attributes

- list `params` = [None]

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

- [src/orders.py](#)

8.53 `src.orders.OrderDispatcher` Class Reference

Public Member Functions

- `def __init__`
- `def treat`

Public Attributes

- `world`
- `handle`

8.53.1 Detailed Description

pour diminuer la redondance de code client/serveur

8.53.2 Member Function Documentation

8.53.2.1 `def src.orders.OrderDispatcher.treat (self, emitter, order)`

-> ordre à retransmettre

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

- `src/orders.py`

8.54 ParamItemDelegate Class Reference

Public Member Functions

- **ParamItemDelegate** (QObject *parent=nullptr)
- QWidget * **createEditor** (QWidget *parent, const QStyleOptionViewItem &option, const QModelIndex &index) const
- void **setEditorData** (QWidget *editor, const QModelIndex &index) const
- void **updateEditorGeometry** (QWidget *editor, const QStyleOptionViewItem &option, const QModelIndex &index) const
- void **setModelData** (QWidget *editor, QAbstractItemModel *model, const QModelIndex &index) const

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

- `src/editor/GUI/Tabs/objecteditor.h`
- `src/editor/GUI/Tabs/objecteditor.cpp`

8.55 src.tools.Perf Class Reference

Public Member Functions

- `def __init__`
- `def tic`
- `def toc`
- `def show`

Public Attributes

- **num**
- **avg**
- **min**
- **max**
- **t**

8.55.1 Detailed Description

Calcule les performances d'un morceau de code

8.55.2 Member Function Documentation

8.55.2.1 `def src.tools.Perf.show (self)`

Affiche le rapport

8.55.2.2 `def src.tools.Perf.tic (self)`

À lancer avant la fonction

8.55.2.3 `def src.tools.Perf.toc (self)`

À lancer après la fonction

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

- `src/tools.py`

8.56 PtCoords Class Reference

The [PtCoords](#) class describe positions with virtual point coordinates.

```
#include <mappainter.h>
```

Public Member Functions

- **PtCoords** (qreal x, qreal y)
- **PtCoords** (const QPointF &p)

8.56.1 Detailed Description

The [PtCoords](#) class describe positions with virtual point coordinates.

Theses coordinates describe each point relatively to the view. They correspond to a point in the image containing the entire map.

See also

[RlCoords](#), [ClCoords](#), [PxCoords](#)

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

- [src/editor/Game/mappainter.h](#)

8.57 PxCoords Class Reference

The [PxCoords](#) class describe positions with real pixel coordinates.

```
#include <mappainter.h>
```

Public Member Functions

- **PxCoords** (qreal x, qreal y)
- **PxCoords** (const QPointF &p)
- **PxCoords** (const QPoint &p)
- **PxCoords** (int x, int y)

8.57.1 Detailed Description

The [PxCoords](#) class describe positions with real pixel coordinates.

Theses coordinates describe the pixel position.

See also

[RlCoords](#), [ClCoords](#), [PtCoords](#)

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

- [src/editor/Game/mappainter.h](#)

8.58 RlCoords Class Reference

The [RlCoords](#) class describe positions with relative coordinates.

```
#include <mappainter.h>
```

Public Member Functions

- **RICoords** (qreal x, qreal y)
- **RICoords** (const QPointF &p)

8.58.1 Detailed Description

The [RICoords](#) class describe positions with relative coordinates.

Theses coordinates have values in $[0, 1]$, for every point in the view.

See also

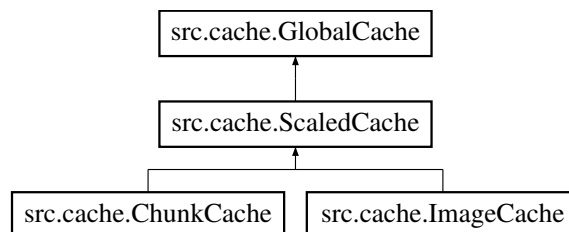
[CICoords](#) [PtCoords](#), [PxCoords](#)

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

- `src/editor/Game/mappainter.h`

8.59 src.cache.ScaledCache Class Reference

Inheritance diagram for `src.cache.ScaledCache`:



Public Member Functions

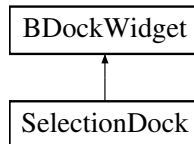
- def **add_scaled**
- def **remove**
- def **get_elt**
- def **free_cache**

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

- `src/cache.py`

8.60 SelectionDock Class Reference

Inheritance diagram for SelectionDock:



Public Member Functions

- **SelectionDock** ([MapView](#) *mv, QWidget *parent=0)

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

- src/editor/GUI/Tabs/selectiondock.h
- src/editor/GUI/Tabs/selectiondock.cpp

8.61 src.server.Server Class Reference

Public Member Functions

- def **__init__**
- def **__del__**
- def **run**
- def **handle**
- def **handleEvent**

Public Attributes

- **net**
- **world**
- **actions**
- **persos**
- **orderDispatcher**
- **events**

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

- src/server.py

8.62 src.network.ServerConnection Class Reference

Inherits Thread.

Public Member Functions

- def **__init__**
- def **run**
- def **send**

Public Attributes

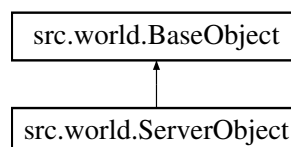
- **soc**
- **handle**

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

- src/network.py

8.63 src.world.ServerObject Class Reference

Inheritance diagram for src.world.ServerObject:



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

- src/world.py

8.64 TabAcces Class Reference

Signals

- void **activated** (int i)

Public Member Functions

- **TabAcces** (int i, const QString &n, const QPixmap &p, QWidget *parent=0)
- void **setActive** (bool a)

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

- src/editor/GUI/tabacces.h
- src/editor/GUI/tabacces.cpp

8.65 TabBar Class Reference

Public Slots

- void **setCurrentTab** (int t)

Signals

- void **currentTabChanged** (int)

Public Member Functions

- **TabBar** (QWidget *parent=0)
- void **addTabAcces** (const QString &n, const QPixmap &p)
- int **currentTab** () const
- void **setTabsEnabled** (bool e)

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

- src/editor/GUI/tabbar.h
- src/editor/GUI/tabbar.cpp

8.66 src.utils.WalkableGraph Class Reference

Public Member Functions

- def **__init__**
- def **get_neighbors**
- def **dist**
- def **get_path**

Public Attributes

- **walkables**

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

- src/utls.py

8.67 Welcome Class Reference

Public Member Functions

- **Welcome** (QWidget *parent=0)

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

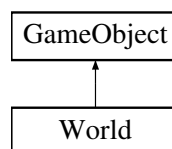
- src/editor/GUI/Tabs/welcome.h
- src/editor/GUI/Tabs/welcome.cpp

8.68 World Class Reference

The [World](#) class.

```
#include <game.h>
```

Inheritance diagram for World:



Public Member Functions

- **World** ([Game](#) *g, [GameObject](#) *parent)
- **ObjectListD** (m, M, ap, s, [Map](#)) ObjectListD(o)

Public Attributes

- **O**
- **bject**
- **s**

8.68.1 Detailed Description

The [World](#) class.

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

- src/editor/Game/[game.h](#)
- src/editor/Game/game.cpp

8.69 src.world.World Class Reference

Public Member Functions

- `def __init__`

Public Attributes

- **maps**
- **entities**
- **objects**

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

- src/world.py

8.70 WorldEditor Class Reference

Public Member Functions

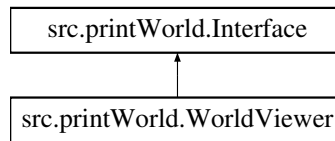
- **WorldEditor** (QWidget *parent=0)
- void **setGame** ([Game](#) *g)

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

- src/editor/GUI/Tabs/worldeditor.h
- src/editor/GUI/Tabs/worldeditor.cpp

8.71 src.printWorld.WorldViewer Class Reference

Inheritance diagram for src.printWorld.WorldViewer:



Public Member Functions

- def [__init__](#)
- def [get_event](#)
- def [end](#)
- def [update](#)
- def [render](#)
- def [move](#)
- def [move_char](#)
- def [propagate_trigger](#)

Public Attributes

- **screen_size**
- **current_map**
- **main_char**
- **characters**

8.71.1 Constructor & Destructor Documentation

8.71.1.1 def src.printWorld.WorldViewer.__init__(self, w)

Initialize the pygame Interface

8.71.2 Member Function Documentation

8.71.2.1 def src.printWorld.WorldViewer.end(self)

End the display

8.71.2.2 def src.printWorld.WorldViewer.get_event(self)

Return current pygame events stack

8.71.2.3 `def src.printWorld.WorldViewer.move (self, dx, dy)`

Move the current map by dx,dy, return the rectangle of modifications

8.71.2.4 `def src.printWorld.WorldViewer.move_char (self, ident, end_pos)`

Move the entitie ident to cell end_pos

8.71.2.5 `def src.printWorld.WorldViewer.propagate_trigger (self, event)`

Propagate event to next objects in the arborescence, here its the current map

8.71.2.6 `def src.printWorld.WorldViewer.render (self)`

Return the new image to show on screen

8.71.2.7 `def src.printWorld.WorldViewer.update (self)`

Update the view

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

- `src/printWorld.py`

8.72 XmlHandler Class Reference

Public Member Functions

- **XmlHandler** ([Game](#) *g)
- bool **startElement** (const QString &, const QString &localName, const QString &, const QDomAttributes &atts)
- bool **endElement** (const QString &, const QString &localName, const QString &)

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

- `src/editor/Game/xmlhandler.h`
- `src/editor/Game/xmlhandler.cpp`

Chapter 9

File Documentation

9.1 src/editor/Game/game.h File Reference

Definition of the [Game](#) and [World](#) classes.

```
#include "object.h" #include "map.h"
```

Classes

- class [World](#)
The [World](#) class.
- class [Game](#)
The [Game](#) class gather the differents parts needed to describe a game.

9.1.1 Detailed Description

Definition of the [Game](#) and [World](#) classes.

9.2 src/editor/Game/map.h File Reference

Definition of the [Map](#), [Cell](#) and [CellType](#) classes.

```
#include "object.h"
```

Classes

- class [CellType](#)
The [CellType](#) class.
- class [Cell](#)

The [Cell](#) class.

- class [Map](#)

The [Map](#) class.

Defines

- #define [forCells](#)(i) int nbCell = width()*height(); for(int i(0); i<nbCell; ++i)

9.2.1 Detailed Description

Definition of the [Map](#), [Cell](#) and [CellType](#) classes.

9.2.2 Define Documentation

9.2.2.1 #define [forCells](#)(i) int nbCell = width()*height(); for(int i(0); i<nbCell; ++i)

Usefull macro to set up a for on the cells

9.3 src/editor/Game/mappainter.h File Reference

Definition of the [MapPainter](#) class and other related classes to render [maps](#).

```
#include "map.h" #include "GUI/options.h"
```

Classes

- class [RlCoords](#)

The [RlCoords](#) class describe positions with relative coordinates.

- class [ClCoords](#)

The [ClCoords](#) class describe positions with cell coordinates.

- class [PtCoords](#)

The [PtCoords](#) class describe positions with virtual point coordinates.

- class [PxCoords](#)

The [PxCoords](#) class describe positions with real pixel coordinates.

- class [MapPainter](#)

The [MapPainter](#) class that can paint a [Map](#) using a [QPainter](#).

Defines

- #define **MINMAX**(a, x, b) std::min(std::max(a,x),b)

Functions

- [MapPainter::Element operator|](#) ([MapPainter::Element](#) a, [MapPainter::Element](#) b)
The operator | is the flag OR operation.
- [MapPainter::Element operator&](#) ([MapPainter::Element](#) a, [MapPainter::Element](#) b)
The operator & is the flag AND operation.
- [MapPainter::Element operator^](#) ([MapPainter::Element](#) a, [MapPainter::Element](#) b)
The operator ^ is the flag subtraction operation.

9.3.1 Detailed Description

Definition of the [MapPainter](#) class and other related classes to render [maps](#). This file defines four types of coordinates : [RlCoords](#), [ClCoords](#), [PtCoords](#) and [PxCoords](#). - They all inherit from [QPointF](#), and give a static type checking for the consistency of the coordinates which are used.

Author

Baptiste Pauget

9.3.2 Function Documentation

9.3.2.1 [MapPainter::Element operator^](#) ([MapPainter::Element](#) a, [MapPainter::Element](#) b) `[inline]`

The operator ^ is the flag subtraction operation.

Warning

This is not a XOR operation, it corresponds to a&!b

9.4 src/editor/Game/mapslistmodel.h File Reference

Definition of Model/View presentation classes.

```
#include <QAbstractListModel>    #include <QAbstractTableModel>
#include "game.h" #include "mappainter.h"
```

Classes

- class [MapsListModel](#)
The [MapsListModel](#) class provides a presentation class for the Qt Model-View framework.
- class [CellTypeListModel](#)

The [CellTypeListModel](#) class.

- class [ObjectParamTableModel](#)
- class [ObjectFlagTableModel](#)

9.4.1 Detailed Description

Definition of Model/View presentation classes.

9.5 src/editor/Game/object.h File Reference

Definition of the base class [GameObject](#), and some inherited classes.

```
#include <QtCore> #include <QtGui> #include <assert.h>
```

Classes

- class [GameObject](#)

The [GameObject](#) class is the base class for every part of games.

- class [Image](#)

The [Image](#) class stores an external file in a [QImage](#), and gives each image resources a unique identifier.

- class [Object](#)

The [Object](#) class.

Defines

- #define [ObjectsMapC](#)(name, names, Type, Types, pref, arg)
- #define [ObjectsMap](#)(pref, ini, Ini, body, sg, pl) [ObjectsMapC](#)(ini##body##sg, ini##body##pl, Ini##body##sg, Ini##body##pl, pref, ini)
- #define [ObjectListDef](#)(Objects, Type) private: QMap<int, Type*> a##Objects; public:
- #define [ObjectListAdd](#)([Object](#), Objects, Type) void add##[Object](#)(Type* new##[Object](#)){a##Objects[new##[Object](#)->ident()] = new##[Object](#); touch();}
- #define [ObjectListTake](#)([Object](#), Objects, Type) Type* take##[Object](#)(int id){touch(); return a##Objects.take(id);}
- #define [ObjectListGetter](#)(object, Objects, Type) inline Type* object(int id) const{return a##Objects.value(id, nullptr);}
- #define [ObjectListValues](#)(objects, Objects, Type) inline QList<Type*> objects() const{return a##Objects.values();}
- #define [ObjectListGetters](#)(object, [Object](#), objects, Objects, Type) ObjectList-Getter(object, Objects, Type) ObjectListValues(objects, Objects, Type)
- #define [ObjectListModifiers](#)([Object](#), Objects, Type) ObjectListAdd([Object](#), -Objects, Type) ObjectListTake([Object](#), Objects, Type)

- `#define ObjectList(object, Object, objects, Objects, Type) ObjectListDef(-Objects,Type) ObjectListGetters(object,Object,objects,Objects,Type) ObjectListModifiers(Object, Objects, Type)`
- `#define ObjectListD(init, Init, body, sg, pl, Type) ObjectList(init##body##sg,-Init##body##sg,init##body##pl,Init##body##pl,Type)`
- `#define C(Macro, init, Init, body,...) Macro(init##body, Init##body, ## __VA_ARGS__)`
- `#define C0(Macro, init, Init, body) Macro(init##body, Init##body)`
- `#define C1(Macro, init, Init, body, arg) Macro(init##body, Init##body, arg)`
- `#define SetFlag(flag, value) aFlags[#flag] = value`
- `#define FlagGetter(flag, Flag) inline bool is##Flag() const{return aFlags[#flag];}`
- `#define FlagSetter(flag, Flag) inline void set##Flag(bool flag){SetFlag(flag,flag); touch();}`
- `#define Flag(flag, Flag) FlagGetter(flag, Flag) FlagSetter(flag, Flag)`
- `#define SetParam(param, value) aParams[#param] = value`
- `#define ParamGetter(param) inline int param() const{return aParams[#param];}`
- `#define ParamSetter(param, Param) inline void set##Param(int param##Value){SetParam(param,param##Value); touch();}`
- `#define Param(param, Param) ParamGetter(param) ParamSetter(param, Param)`
- `#define AttrGetter(attr, Attr, Type) inline Type* attr() const{return a##Attr;}`
- `#define AttrFree(Attr) if(a##Attr) a##Attr->removeReference();`
- `#define AttrLink(Attr) if(a##Attr) a##Attr->addReference();`
- `#define AttrSetter(attr, Attr, Type) inline void set##Attr(Type* new##Attr){AttrFree(Attr); a##Attr = new##Attr; AttrLink(Attr); touch();}`
- `#define AttrDef(Attr, Type) private: Type* a##Attr = nullptr; public:`
- `#define Attr(attr, Attr, Type) AttrDef(Attr, Type) AttrGetter(attr,Attr,Type) AttrSetter(attr, Attr, Type)`
- `#define AttrT(type, Type) Attr(type, Type, Type)`

9.5.1 Detailed Description

Definition of the base class [GameObject](#), and some inherited classes. `##` The objects structure

`###` Objects destructors

`##` The Macro System

To add conveniently attributes and flags to [GameObject](#) subclassed objects, a set of macro is provided.

`###` Name conventions

For a attribute named `attr`, the following conventions are observed :

- `attr()` is the getter method
- `setAttr()` is the setter method
- `aAttr` is the name of the attribut (if any)

A specific convention is applied for flags (boolean attributes) :

- isAttr() is the getter method

Macros

To define a new attribute, a global macro can be used in the class declaration. The provided basic implementations keep the object edition synchronization.

If a cleverer process is needed, custom getter or setter can be implemented, and the getter and setter macros can be used separately to define the obvious methods

****Provided macros****

Attribute Type	Complete declaration	Getter	Setter
Flags (bool)	Flag FlagGetter FlagSetter	Parameters (int)	Param ParamGetter ParamSetter
GameObject based Attributes	Attr AttrGetter AttrSetter		

****The case of attributes****

An additionnal [AttrT](#) macro is provided, that deduce a default name from the type.

Name tools

To make the definition easier and avoid the name repetition that is introduced by the name convention, a [C](#) macro is provided to construct the names with lower and upper initial letter from theses letter and the end of the name.

Author

Baptiste Pauget

9.5.2 Define Documentation

9.5.2.1 `#define Attr(attr, Attr, Type) AttrDef(Attr, Type) AttrGetter(attr,Attr,Type) AttrSetter(attr, Attr, Type)`

The Attr macro defines a new `<aAttr>` named attribute of type `Type`, with its generic getter and setter methods.

With respect to the [name convention](#), this macro needs the parameter's name with lower and upper initial letter case.

Example

```
{.cpp}
Attr(parent,Parent, GameObject)
-->
private:
    GameObject *aParent;
public:
    inline GameObject* parent() const{return aParent;}
    inline void setParent(GameObject* parentObject){aParent = parentObject
; touch();}
```

See also

[AttrT](#), [AttrDef](#), [AttrSetter](#), [AttrGetter](#), [C](#)

9.5.2.2 `#define AttrDef(Attr, Type) private: Type* a##Attr = nullptr; public:`

The `AttrDef` macro defines a private attribute name `<aAttr>`.

Note

To avoid redefinition error, no attribute or method name `<aAttr>` must exist.

Warning

This macro is designed to be used in a public part of the class. Please note that inserting this macro in a private or protected part will change the visibility of the next declaration to public.

Example

```
{.cpp}
Attr(Parent,GameObject)
-->
private:
    GameObject *aParent;
public:
```

See also

[Attr](#)

9.5.2.3 `#define AttrGetter(attr, Attr, Type) inline Type* attr() const{return a##Attr;}`

The `AttrGetter` macro defines a generic getter method for the attribute named `attr` of type `Type`.

With respect to the [name convention](#), this macro needs the attribute's name with lower and upper initial letter case.

Example

```
{.cpp}
AttrGetter(parent,Parent,GameObject)
--> inline GameObject* parent() const{return aParent;}
```

See also

[Attr](#), [AttrSetter](#), [C](#)

9.5.2.4 `#define AttrSetter(attr, Attr, Type) inline void set##Attr(Type* new##Attr){AttrFree(Attr); a##Attr = new##Attr; AttrLink(Attr); touch();}`

The `AttrSetter` macro defines a generic setter method for the attribute named `attr` of type `Type`.

With respect to the [name convention](#), this macro needs the attribute's name with lower and upper initial letter case.

Example

```
{.cpp}
AttrSetter(parent,Parent,GameObject)
--> inline void setParent(GameObject* &parentObject){aParent =
    parentObject; touch();}
```

See also

[Attr](#), [AttrGetter](#), [C](#)

9.5.2.5 `#define AttrT(type, Type) Attr(type, Type, Type)`

The `AttrT` macro defines a new attribute of type `Type`, named after the type name, with its generic getter and setter methods.

With respect to the [name convention](#), this macro needs the parameter's type with lower and upper initial letter case.

Example

```
{.cpp}
AttrT(cellType,CellType)
-->
private:
    CellType *aCellType;
public:
    inline CellType* cellType() const{return aCellType;}
    inline void setCellType(CellType* cellTypeObject){aCellType =
        cellTypeObject; touch();}
```

See also

[Attr](#), [AttrDef](#), [AttrSetter](#), [AttrGetter](#), [C](#)

9.5.2.6 `#define C(Macro, init, Init, body, ...) Macro(init##body, Init##body, ##__VA_ARGS__)`

The `C` macro calls the `Macro` argument with argument tokens formed by the concatenation of `init` and `body`, and `Init` and `body`.

This enables to call a macro with the same argument, with the initial letter in lower and upper case.

A custom number of arguments can be added after the `body` one.

Note

This use of variadic arguments follow the [gcc specification](#), but can be not supported by some compilers.

As some IDE does not fully support variadic macro expansion, the [C0](#) and [C1](#) macros can be used to avoid some inconvenience due to uncomplete code understanding.

Example

```
{.cpp}
C(Param,w,W,idth)
    --> Param(width, Width)

C(Attr, p,P,arent, GameObject)
    --> Attr(parent, Parent, GameObject)
```

See also

[object.h](#)

9.5.2.7 #define C0(Macro, init, Init, body) Macro(init##body, Init##body)

The C0 macro is equivalent to the [C](#) macro, with no additional argument.

This macro is provided to avoid the use of variadic arguments that are currently not totally supported by some IDE. **Example**

```
{.cpp}
C(Flag, v,V,isible)
    --> Flag(visible, Visible)
```

See also

[C1](#)

9.5.2.8 #define C1(Macro, init, Init, body, arg) Macro(init##body, Init##body, arg)

The C1 macro is equivalent to the [C](#) macro, with one additional argument.

This macro is provided to avoid the use of variadic arguments that are currently not totally supported by some IDE. **Example**

```
{.cpp}
C(Attr, p,P,arent, GameObject)
    --> Attr(parent, Parent, GameObject)
```

See also

[C0](#)

9.5.2.9 `#define Flag(flag, Flag) FlagGetter(flag, Flag) FlagSetter(flag, Flag)`

The `Flag` macro defines generic getter and setter methods for the flag named `flag`.

With respect to the [name convention](#), this macro needs the flag's name with lower and upper initial letter case.

Example

```
{.cpp}
Flag(visible,Visible)
--> inline bool isVisible() const{return aFlags["visible"];}
    inline void setVisible(bool visible){aFlags["visible"] = visible;
    touch() }
```

See also

[FlagGetter](#), [FlagSetter](#), [C](#)

9.5.2.10 `#define FlagGetter(flag, Flag) inline bool is##Flag() const{return aFlags[#flag];}`

The `FlagGetter` macro defines a generic getter method for the flag named `flag`.

With respect to the [name convention](#), this macro needs the flag's name with lower and upper initial letter case.

Warning

The default getter method does not check whether the `flag` named flag really exist. To avoid runtime access error, it is strongly advice to initialize the flag in the object's constructor, using the setter method or the [SetFlag](#) macro.

Example

```
{.cpp}
FlagGetter(visible,Visible)
--> inline bool isVisible() const{return aFlags["visible"];}
```

See also

[Flag](#), [FlagSetter](#), [C](#)

9.5.2.11 `#define FlagSetter(flag, Flag) inline void set##Flag(bool flag){SetFlag(flag,flag); touch();}`

The `FlagSetter` macro defines a generic setter method for the flag named `flag`.

With respect to the [name convention](#), this macro needs the flag's name with lower and upper initial letter case.

Example

```
{.cpp}
FlagSetter(visible,Visible)
--> inline void setVisible(bool visible){aFlags["visible"] = visible;
touch() }
```

See also

[Flag](#), [FlagGetter](#), [C](#)

9.5.2.12 `#define ObjectsMap(pref, ini, Ini, body, sg, pl) ObjectsMapC(ini##body##sg, ini##body##pl, Ini##body##sg, Ini##body##pl, pref,ini)`

Deprecated

9.5.2.13 `#define ObjectsMapC(name, names, Type, Types, pref, arg)`

Value:

```
private: \
    QMap<int, Type*> pref##Types; \
public: \
    void add##Type(Type* arg){pref##Types[arg->ident()] = arg; touch();} \
    void remove##Type(Type* arg){if(pref##Types.contains(arg->ident()))pref##Types.remove(arg->ident()); touch();} \
    inline Type* name(int id) const{return pref##Types.value(id, nullptr);} \
    inline QList<Type*> names() const{return pref##Types.values();}
```

Deprecated

9.5.2.14 `#define Param(param, Param) ParamGetter(param) ParamSetter(param, Param)`

The Param macro defines generic getter and setter methods for the parameter named param.

With respect to the [name convention](#), this macro needs the parameter's name with lower and upper initial letter case.

Example

```
{.cpp}
Param(width,Width)
--> inline int width() const{return aParams["width"];}
    inline void setWidth(int widthValue){aParams["width"] = widthValue;
touch();}
```

See also

[ParamGetter](#), [ParamSetter](#), [C](#)

9.5.2.15 `#define ParamGetter(param) inline int param() const{return aParams[#param];}`

The ParamGetter macro defines a generic getter method for the parameter named `param`.

Warning

The default getter method does not check whether the `param` named parameter really exist. To avoid runtime access error, it is strongly advice to initialize the parameter in the object's constructor, using the setter method or the [SetParam](#) macro.

Example

```
{.cpp}
ParamGetter(width)
--> inline int width() const{return aParams["width"]};}
```

See also

[Param](#), [ParamSetter](#)

9.5.2.16 `#define ParamSetter(param, Param) inline void set##Param(int param##Value){SetParam(param,param##Value); touch();}`

The ParamSetter macro defines a generic setter method for the parameter named `param`.

With respect to the [name convention](#), this macro needs the parameter's name with lower and upper initial letter case.

Example

```
{.cpp}
ParamSetter(width,Width)
--> inline void setWidth(bool widthValue){aParams["width"] = widthValue;
touch();}
```

See also

[Param](#), [ParamGetter](#), [C](#)

9.5.2.17 `#define SetFlag(flag, value) aFlags[#flag] = value`

Convenient macro to set a flag directly.

This is usefull in custom setters, to avoid call loops.

Warning

The [touch](#) function isn't called. After this macro use, the [object](#) is no longer synchronised.

Example

```
{.cpp}
SetFlag(visible, false)
--> aFlags["visible"] = false
```

See also

[Flag](#), [FlagSetter](#), [object.h](#)

9.5.2.18 #define SetParam(param, value) aParams[#param] = value

Convenient macro to set a param directly.

This is usefull in custom setters, to avoid call loops.

Warning

The [touch](#) function isn't called. After this macro use, the [object](#) is no longer synchronised.

Example

```
{.cpp}
SetParam(width, 42)
--> aParams["width"] = 42
```

See also

[Param](#), [ParamSetter](#), [object.h](#)

9.6 src/editor/Game/xmlhandler.h File Reference

Definition og the [XmlHandler](#) class and other related classes to read XML game's files.

```
#include <QtXml> #include "game.h"
```

Classes

- class [XmlHandler](#)

Typedefs

- typedef std::pair< QString, FileContent > **Asso**

Enumerations

- enum **FileContent** { **FCUnknown**, **FCGame**, **FCResources**, **FCWorld**, **FCMap**, **FCEntity**, **FCObject** }

Functions

- const QMap< QString, FileContent > **overHead** ({Asso("Game", FCGame), - Asso("Resources", FCResources), Asso("World", FCWorld), Asso("Map", FCMap), Asso("Entity", FCEntity), Asso("Object", FCObject)})

9.6.1 Detailed Description

Definition of the [XmlHandler](#) class and other related classes to read XML game's files.

9.7 src/editor/GUI/options.h File Reference

Definition of the [Options](#) class, and the constants that are used in this class.

```
#include <QSettings> #include <QDir> #include <QSize> ×
#include <QPoint> #include <QColor>
```

Classes

- struct [Options](#)

The [Options](#) class provides session-independent options and preferences.

Defines

- #define [WIN](#) "Window"
- #define [DIR](#) "Directories"
- #define [MAP](#) "MapsEditor"
- #define [DefaultF](#)(group, opt, val) defaultValues[group][opt] = QPair<QVariant, bool>(val, false)
- #define [Default](#)(group, opt, val) defaultValues[group][opt] = QPair<QVariant, bool>(val, true)

Variables

- const QString **ADAPT** = "Adjustable"
- const QString **VAL** = "Value"

9.7.1 Detailed Description

Definition of the [Options](#) class, and the constants that are used in this class. The headers of types which are used in the application must be include here. See [Options](#) for details.

Author

Baptiste Pauget

9.7.2 Define Documentation

9.7.2.1 `#define Default(group, opt, val) defaultValues[group][opt] = QPair<QVariant, bool>(val, true)`

This macro defines a new adaptati option identified by its group and name.

9.7.2.2 `#define DefaultF(group, opt, val) defaultValues[group][opt] = QPair<QVariant, bool>(val, false)`

This macro defines a new unadaptati option identified by its group and name.

9.7.2.3 `#define DIR "Directories"`

Group of paths options.

9.7.2.4 `#define MAP "MapsEditor"`

Group of [MapsEditor](#) related options.

9.7.2.5 `#define WIN "Window"`

Group of window related options.

9.8 src/editor/GUI/Tabs/bcolor.h File Reference

Definition of the [BColor](#) class.

```
#include <QtWidgets>
```

Classes

- class [BColor](#)

The [BColor](#) class is a simple frame that offers color selection.

9.8.1 Detailed Description

Definition of the [BColor](#) class.

Author

Baptiste Pauget

9.9 src/editor/GUI/Tabs/Docks/bdock.h File Reference

Definition of the [BDock](#) class.

```
#include <QtWidgets> #include "intertie.h" #include "bdockwidget.-  
h"
```

Classes

- class [BDock](#)

The [BDock](#) class is the container for widget to display in a [BDocksZone](#).

9.9.1 Detailed Description

Definition of the [BDock](#) class.