mkRPG

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L'éditeur

Compilation

Pour compiler l'éditeur, il est nécessaire de disposer de Qt 5.6.1 (ou version plus récentes). Le plus facile est d'ouvrir le projet avec QtCreator (le fichier .pro) et de demander gentiment une compilation (Ctrl + R).

Test

Pas besoin d'ouvrir ou de créer de jeu pour pouvoir voir les quelques éléments implémentés : un "jeu" est (temporairement) prédéfini dans le code. Seules quelques fonctionnalités d'affichage existent, ainsi que la modification des angles. Pour l'instant...

Contrôles

Dans l'onglet Maps (le seul qui est vraiment intéressant pour le moment) les commandes sont :

Zoom : Roulette de la souris

Déplacement : Clic droit + et déplacement

Séléction : Clic gauche ou Alt + déplacement

2 L'éditeur

readme

run py client.py to try.

Commands:

- Move map around by putting the mouse cursor on the edges of the screen
- Mouse wheel allows you to zoom in or out

4 readme

Todo List

Class GameObject

6 Todo List

Deprecated List

Member ObjectsMap (pref, ini, Ini, body, sg, pl)

Member ObjectsMapC (name, names, Type, Types, pref, arg)

8 Deprecated List

Namespace Index

	5.1	Namespace	List
--	-----	-----------	------

Here is a list of all documented namespaces with brief descriptions:	
src.parsing.map_parser	2

10 Namespace Index

Hierarchical Index

6.1 Class Hierarchy

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

src.path.Archi23src.world.BaseObject26
CellDock
CellDock
CellTypesDock
CellTypesDock
src.cursescli.CellViewer
src.character.Character
src.pygamecli.Client
src.client.Client
Editor
Editor
GameObject
Cell
CellType
Game
Image
Map
Object
World
src.cache.GlobalCache
src.cache.ScaledCache
src.cache.ChunkCache
src.cache.lmageCache
Group
src.map.MapViewer
src.interactions.Interaction
src.printWorld.Interface
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MagicObject
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QDialog																			
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BColor																			27
BDock																			
QMainWindow	 	• •	• •	 • •				•	•	• •	• •	 			•	• •		•	 00
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MapPainter																			
QPointF	 			 					•			 			•		•	•	 J
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Class Index

7.1 Class List

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

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src.backgroundLayer.BackgroundLayer	. 25
src.world.BaseObject	. 26
BColor	
Simple frame that offers color selection	. 27
BDock	
Container for widget to display in a BDocksZone	. 30
BDocksZone	. 31
BDockWidget	
Base class for game-related docks	. 32
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Simple QStateMachine with two states	. 33
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src.pygamecli.Client	. 41
src.client.Client	. 42
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Editor	
Main window of the Editor	. 44
src.world.Entity	. 44
Game	
Gather the differents parts needed to describe a game	. 45

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GameOb	Base class for every part of games	
src.cache	GlobalCache	
mage		
	Stores an external file in a QImage, and gives each image ressources a unique identifier $$	
	e.ImageCache	
src.intera	ctions.Interaction	
src.printV	Vorld.Interface	
src.interfa	ace.Interface	
ntertie		
	Provide int that move smoothly from their value to an objective	
src.layer.	Layer	
Map		
	The Map class	
src.world	.Map	
MapDock	•	
MapPain [®]	er	
	That can paint a Map using a QPainter	
MapsEdi t	or	
	Tab offering map editing facilities	
MapsList	Model	
	Presentation class for the Qt Model-View framework	
src.curse	scli.MapViewer	
src.map.l	MapViewer	
MapView	er	
	Widget to display and edit a Map using a MapPainter	
src.netwo	ork.NetworkClient	
src.netwo	orkudp.NetworkClient	
src.netwo	ork.NetworkServer	
src.netwo	orkudp.NetworkServer	
NewGam	e	
Object		
	The Object class	
ObjectEd	itor	
ObjectFla	gTableModel	
ObjectPa	ramTableModel	
src.world	ObjectType	
Options		
	Session-independant options and preferences	
src.order	s.Order	
src.order	s.OrderDispatcher	
aramite	mDelegate	
src.tools.	Perf	
PtCoords		
	Describe positions with virtual point coordinates	
Coord		
	Describe positions with real pixel coordinates	
RICoords		
	Describe positions with relative coordinates	
src.cache	ScaledCache	
Selection	Dock	
src.serve	r.Server	
src.netwo	ork.ServerConnection	
TabAcces		
ГаbВаr		
src.tools.		
src.utils.V	ValkableGraph	
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7.1 Class List		

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(mlHandler	 . 100

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File Index

8.1 File List

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

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src/editor/Game/map.h	
Definition of the Map, Cell and CellType classes	101
src/editor/Game/mappainter.h	
Definition of the MapPainter class and other related classes to render maps	102
src/editor/Game/mapslistmodel.h	
Definition of Model/View presentation classes	103
src/editor/Game/object.h	
Definition of the base class GameObject, and some inherited classes	104
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	??
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src/editor/GUI/Tabs/celltypesdock.h	??
src/editor/GUI/Tabs/mapdock.h	??
src/editor/GUI/Tabs/mapseditor.h	??
src/editor/GUI/Tabs/mapviewer.h	??
src/editor/GUI/Tabs/objecteditor.h	??
src/editor/GUI/Tabs/selectiondock.h	??
src/editor/GUI/Tabs/welcome.h	??
src/editor/GUI/Tabs/worldeditor.h	??
src/editor/GUI/Tabs/Docks/bdock.h	
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	??
src/editor/GUI/Tabs/Docks/ bdockwidget.h	??
src/editor/GLII/Tabs/Docks/intertie.h	22

20 File Index

Namespace Documentation

9.1 src.parsing.map_parser Namespace Reference

Functions

- def parse_cell (cell_object)
- def map_parser (map_xml)
- def get_size (tree)
- def gen_map (cells_specs)

9.1.1 Detailed Description

This module handles xml parsing for maps description files.

9.1.2 Function Documentation

```
9.1.2.1 get_size()
```

```
def src.parsing.map_parser.get_size ( tree \ ) \\ Gets the size of the map.
```

9.1.2.2 map_parser()

The main parser for the map xml file.

9.1.2.3 parse_cell()

```
\begin{tabular}{ll} def & src.parsing.map\_parser.parse\_cell & \\ & cell\_object & ) \end{tabular}
```

Parses a CellType attribute.

Chapter 10

Class Documentation

10.1 src.path.Archi Class Reference

Public Member Functions

- def __init__ (self, prefix=None)
- def get_src_file (self, file_path, mode='r')
- def get static file (self, file path, mode='r')
- def get_xml_file (self, file_path, mode='r')
- def list_files (self, dir_path)
- def get_src_dir (self, dir_path)
- def get_static_dir (self, dir_path)
- def get_xml_dir (self, dir_path)

Public Attributes

main_directory

10.1.1 Detailed Description

```
This class manages the arhitecture 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
```

10.1.2 Member Function Documentation

10.1.2.1 get_src_dir()

Gets the given dir _path with respect to the src folder.

```
10.1.2.2 get_src_file()
```

```
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.
10.1.2.3 get_static_dir()
def src.path.Archi.get_static_dir (
              self,
              dir_path )
Gets the given dir_path with respect to the static folder.
10.1.2.4 get_static_file()
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
10.1.2.5 get_xml_dir()
def src.path.Archi.get_xml_dir (
              self,
              dir_path )
Gets the given dir_path with respect to the xml folder.
10.1.2.6 get_xml_file()
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.

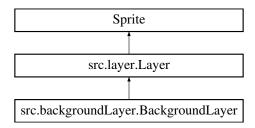
10.1.2.7 list_files()

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

· src/path.py

10.2 src.backgroundLayer.BackgroundLayer Class Reference

Inheritance diagram for src.backgroundLayer.BackgroundLayer:



Public Member Functions

- def __init__ (self, cell_ids, size)
- def init_layer (self)
- def render (self)
- def collision_test (self, mouse_pos)
- def click_update (self, mouse_pos)
- def get_grid_info (self, cell_ids)

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

10.3 src.world.BaseObject Class Reference

Public Member Functions

```
def __init__ (self)
def __getattr__ (self, attr)
def __setattr__ (self, attr, val)
def load (self, data)
def contextEval (self, value)
```

Public Attributes

- params
- ident
- · conditions

Static Public Attributes

```
int ident = 0dictionary ids = {}
```

10.3.1 Detailed Description

```
Tout objet du monde
```

10.3.2 Member Function Documentation

```
10.3.2.1 contextEval()
```

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

Charge l'objet depuis une structure Xml

src/world.py

10.4 BColor Class Reference

The BColor class is a simple frame that offers color selection.

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

Inheritance diagram for BColor:



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

10.4.1 Detailed Description

The BColor class is a simple frame that offers color selection.

10.4.2 Constructor & Destructor Documentation

Constructs a new BColor object, with white as current color.

Constructs a new BColor object and sets the color to c.

10.4.3 Member Function Documentation

```
10.4.3.1 color()
const QColor& BColor::color ( ) const
```

Returns the current color of the selector.

See also

setColor, setColorQuiet, colorChanged

10.4.3.2 colorChanged

This signal is emitted when the color change, both when the user edit it or when setColor is called.

See also

color, setColorQuiet

```
10.4.3.3 name()
```

```
const QString& BColor::name ( ) const
```

Returns the name of the selector.

See also

setName, setNameQuiet, nameChanged

10.4.3.4 nameChanged

This signal is emitted when the name change, when setColor is called.

See also

name, setNameQuiet

10.4.3.5 setColor

Sets the current color.

The signal colorChanged is emitted.

See also

setColorQuiet, color

10.4.3.6 setColorQuiet

Sets the current color.

The signal colorChanged is not emitted.

See also

setColor, color

10.4.3.7 setName

Sets the name of the selector.

The signal nameChanged is emitted.

See also

setNameQuiet, name

10.4.3.8 setNameQuiet

Sets the name of the selector.

The signal nameChanged is not emitted.

See also

setName, name

10.4.4 Property Documentation

10.4.4.1 color

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

The current color that is displayed by the widget

See also

setColor, setColorQuiet, colorChanged.

10.4.4.2 name

```
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

10.5 BDock Class Reference

The BDock class is the container for widget to display in a BDocksZone.

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

Inheritance diagram for BDock:



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 I)

Properties

- · bool unfold
- · int currentSize

10.5.1 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

10.6 BDocksZone Class Reference

Inheritance diagram for BDocksZone:



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

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

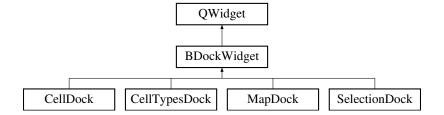
- src/editor/GUI/Tabs/Docks/bdockszone.h
- src/editor/GUI/Tabs/Docks/bdockszone.cpp

10.7 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

10.7.1 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:

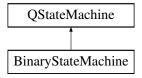
- src/editor/GUI/Tabs/Docks/bdockwidget.h
- src/editor/GUI/Tabs/Docks/bdockwidget.cpp

10.8 BinaryStateMachine Class Reference

The BinaryStateMachine class is a simple QStateMachine with two states.

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

Inheritance diagram for BinaryStateMachine:



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

10.8.1 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

10.9 BLayout Class Reference

Inheritance diagram for BLayout:



Signals

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

Public Member Functions

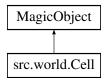
- BLayout (QWidget *parent=0)
- void setOrientation (Qt::Orientation o)
- void insert (BDock *d, int ind=-1)
- void setSpacing (int e)
- void setLength (int t)
- int spacing () const

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

10.10 src.world.Cell Class Reference

Inheritance diagram for src.world.Cell:



Public Member Functions

• def __init__ (self)

Public Attributes

- · entities
- · objects

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

· src/world.py

10.11 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

Additional Inherited Members

10.11.1 Detailed Description

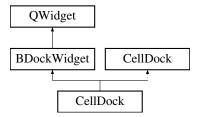
The Cell class.

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

- · src/editor/Game/map.h
- src/editor/Game/map.cpp

10.12 CellDock Class Reference

Inheritance diagram for CellDock:



Public Slots

- void updateGame ()
- void selectionChanged ()

Public Member Functions

• CellDock (QWidget *parent=0)

Additional Inherited Members

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

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

10.13 CellType Class Reference

The CellType class.

#include <map.h>

Inheritance diagram for CellType:



Public Member Functions

• CellType (Game *g, GameObject *parent)

Additional Inherited Members

10.13.1 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

10.14 CellTypeListModel Class Reference

The CellTypeListModel class.

#include <mapslistmodel.h>

Inheritance diagram for CellTypeListModel:



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

10.14.1 Detailed Description

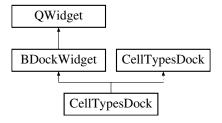
The CellTypeListModel class.

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

- src/editor/Game/mapslistmodel.h
- src/editor/Game/mapslistmodel.cpp

10.15 CellTypesDock Class Reference

Inheritance diagram for CellTypesDock:



Public Member Functions

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

Additional Inherited Members

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

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

10.16 src.cursescli.CellViewer Class Reference

Public Member Functions

- def __init__ (self, cell)
- def display (self, win)

Public Attributes

cell

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

src/cursescli.py

10.17 src.character.Character Class Reference

Public Member Functions

- def __init__ (self, name, start_pos, skin)
- def render (self)
- def update (self)
- def update_skin (self)
- def set_path (self, path)
- def make_skin (self, skin)
- def get_cell_pos_by_index (self, index)
- def move (self)

Public Attributes

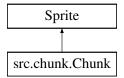
- skin
- name
- action
- orientation
- · image
- current_image
- · game frame count
- · anim_frame_count
- · current cell
- · path
- pos_offset

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

· src/character.py

10.18 src.chunk.Chunk Class Reference

Inheritance diagram for src.chunk.Chunk:



Public Member Functions

- def __init__ (self, index, cells, map_size)
- def init_chunk (self)
- def render (self)
- def scale chunk (self, scale)
- def update (self, state, mouse_pos)
- def click_trigger (self, mouse_pos)
- def set_state (self, state)
- def get_state (self)

Public Attributes

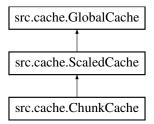
- index
- cells
- g_width
- g_height
- g_map_height
- · width
- height
- pos
- base rect
- layers
- · image

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

src/chunk.py

10.19 src.cache.ChunkCache Class Reference

Inheritance diagram for src.cache.ChunkCache:



Public Member Functions

- def init_chunk (cls, chunk)
- def init_elts (cls, elts)
- def init_chunks (cls, chunks)
- def get_chunk (cls, chunk_index, scale=1)
- def add_scaled (cls, chunk_index, scale=1)

Static Public Attributes

dictionary cache = {}

Additional Inherited Members

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

src/cache.py

10.20 ClCoords Class Reference

The ClCoords class describe positions with cell coordinates.

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

Inheritance diagram for ClCoords:



Public Member Functions

- ClCoords (greal x, greal y)
- ClCoords (const QPointF &p)

10.20.1 Detailed Description

The ClCoords 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

RICoords, PtCoords, PxCoords

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

• src/editor/Game/mappainter.h

10.21 src.pygamecli.Client Class Reference

Public Member Functions

- def __init__ (self, path)
- def __del__ (self)
- def run (self)
- def frame_counter (self, n)
- def update_view (self, mouse_pos, mov_speed_x, mov_speed_y, deltat)
- def get_conf_file (self, path)
- def get_conf (self, conf, type=str)
- def init_cache (self)
- def handleOrder (self, ident, order)

Public Attributes

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

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

· src/pygamecli.py

10.22 src.client.Client Class Reference

Public Member Functions

- def __init__ (self, path, Interface)
- def __del__ (self)
- def run (self)
- def getEntity (self)
- def main (self)
- def handleOrder (self, ident, order)

Public Attributes

- loop
- net
- world
- · interface
- · interactions
- perso
- orderDispatcher
- netTask

10.22.1 Detailed Description

Main class of the client process, gathering interface, world and networking

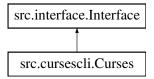
10.22.2 Constructor & Destructor Documentation

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

· src/client.py

10.23 src.cursescli.Curses Class Reference

Inheritance diagram for src.cursescli.Curses:



Public Member Functions

- def __init__ (self, w)
- def repaint (self)
- def end (self)
- def getEvent (self)

Public Attributes

- win
- mv

10.23.1 Detailed Description

ncurses-based UI

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

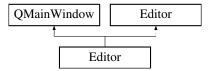
src/cursescli.py

10.24 Editor Class Reference

The Editor class is the main window of the Editor.

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

Inheritance diagram for Editor:



Public Member Functions

• Editor (QStringList args, QWidget *parent=0)

10.24.1 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

10.25 src.world.Entity Class Reference

Inheritance diagram for src.world.Entity:



Public Member Functions

• def __init__ (self)

Public Attributes

- · quests
- · inventory
- user

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

src/world.py

10.26 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 newldent ()
- World * world ()
- Map * currentMap ()
- void setCurrentMap (Map *m)
- void addImage (Image *im)

Additional Inherited Members

10.26.1 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)

10.26.2 Member Function Documentation

10.26.2.1 newIdent()

```
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:

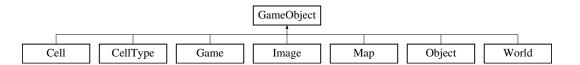
- src/editor/Game/game.h
- · src/editor/Game/game.cpp

10.27 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

10.27.1 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 chidl 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 acheived using the init or setParent method, when the parent have not been given in the constructor. (see object.h for details)

References count

Todo

10.27.2 Constructor & Destructor Documentation

10.27.2.1 GameObject()

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.

10.27.3 Member Function Documentation

```
10.27.3.1 flags()
```

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

Returns the list of the registered flags

See also

getFlag, setFlag, params

10.27.3.2 getFlag()

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

```
10.27.3.3 getParam()
```

```
int GameObject::getParam (  {\tt 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
```

```
10.27.3.4 hasFlag()
```

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

See also

```
getFlag, setFlag, hasParam
```

10.27.3.5 hasParam()

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

See also

```
getParam, setParam, hasFlag
```

```
10.27.3.6 ident()
```

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

Returns the name wide unique identifier of the object.

See also

```
init, GameObject
```

```
10.27.3.7 init()
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
10.27.3.8 isValid()
virtual bool GameObject::isValid ( ) const [inline], [virtual]
Returns true if the object has been initialised
See also
     init, GameObject
Reimplemented in Image.
10.27.3.9 lastChildrenEdition()
const QDateTime& GameObject::lastChildrenEdition ( ) const [inline]
Returns the last time one of the object's children has been modified.
See also
     lastEdition, lastInternalEdition
10.27.3.10 lastEdition()
const QDateTime& GameObject::lastEdition ( ) const [inline]
```

See also

lastInternalEdition, lastChildrenEdition

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

```
10.27.3.11 lastInternalEdition()
```

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

Returns the last edition time.

See also

lastEdition, lastChildrenEdition

```
10.27.3.12 params()
```

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

Returns the list of the registered paramters

See also

```
getParam, setParam, flags
```

10.27.3.13 setFlag()

Set the value of the f flag.

Note

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

See also

flags, hasFlag, getFlag, setParam

10.27.3.14 setParam()

```
void GameObject::setParam (  {\tt const\ QString\ \&\ p,}   {\tt int\ v\ )} \quad [{\tt 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
```

10.27.3.15 touch()

```
void GameObject::touch ( )
```

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

See also

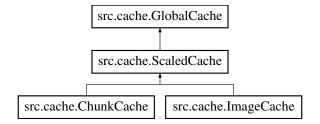
lastInternalEdition, lastChildrenEdition, lastEdition.

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

- src/editor/Game/object.h
- · src/editor/Game/object.cpp

10.28 src.cache.GlobalCache Class Reference

Inheritance diagram for src.cache.GlobalCache:



Public Member Functions

- def __init__ (self)
- def set (cls, key, value)
- def get (cls, key)
- def clear (cls)
- def keys (cls)
- def show (cls)

Public Attributes

· cache

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

src/cache.py

10.29 Image Class Reference

The Image class stores an external file in a QImage, and gives each image ressources 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 Qlmage & image () const
- const QSize size () const
- · void update ()

Additional Inherited Members

10.29.1 Detailed Description

The Image class stores an external file in a QImage, and gives each image ressources a unique identifier.

10.29.2 Member Function Documentation

```
10.29.2.1 isValid()
```

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

Returns true if the object has been initialised

See also

init, GameObject

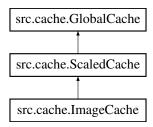
Reimplemented from GameObject.

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

- src/editor/Game/object.h
- src/editor/Game/object.cpp

10.30 src.cache.lmageCache Class Reference

Inheritance diagram for src.cache.ImageCache:



Public Member Functions

- def init_image_from_file (cls, image)
- def init_image_from_surface (cls, key, image)
- def get_image (cls, image, scale=1)
- def init_elts (cls, elts)
- def init_images (cls, images)
- def add_scaled (cls, image, scale=1)

Static Public Attributes

• dictionary cache = {}

Additional Inherited Members

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

src/cache.py

10.31 src.interactions.Interaction Class Reference

Public Member Functions

- def __init__ (self)
- def load (self, dat)

Public Attributes

- target
- type
- key
- event

10.31.1 Detailed Description

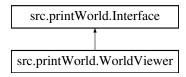
Représente une connection entre une entrée utilisateur et un événement à déclencher sur une cible

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

· src/interactions.py

10.32 src.printWorld.Interface Class Reference

Inheritance diagram for src.printWorld.Interface:

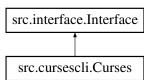


The documentation for this class was generated from the following file:

· src/printWorld.py

10.33 src.interface.Interface Class Reference

Inheritance diagram for src.interface. Interface:



Public Member Functions

- def __init__ (self, w)
- def update (self)
- def repaint (self)
- def end (self)
- def getEvent (self)

Public Attributes

- world
- lastUpdate

10.33.1 Detailed Description

```
UI base-class, can be used as a dummy interface
```

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

· src/interface.py

10.34 Intertie Class Reference

The Intertie class provide int that move smoothly from their value to an objective.

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

Inheritance diagram for Intertie:



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)

10.34.1 Detailed Description

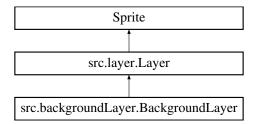
The Intertie class provide int that move smoothly from their value to an objective.

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

10.35 src.layer.Layer Class Reference

Inheritance diagram for src.layer.Layer:



Public Member Functions

- def __init__ (self, size)
- def render (self, surf)
- def update (self)
- def get_cell_pos (self, c_line, c_col, size_image)
- def make_grid (self, img_set, cell_ids)

Public Attributes

- · cells
- g_width
- g_height
- size

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

• src/layer.py

10.36 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 ()

Additional Inherited Members

10.36.1 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

10.37 src.world.Map Class Reference

Inheritance diagram for src.world.Map:



Public Member Functions

- def __init__ (self)
- def fill (self)

Public Attributes

- · cells
- cellsGrid

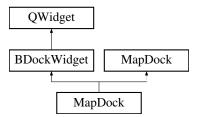
10.37.1 Member Function Documentation

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

src/world.py

10.38 MapDock Class Reference

Inheritance diagram for MapDock:



Public Member Functions

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

Additional Inherited Members

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

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

10.39 MapPainter Class Reference

The MapPainter class that can paint a Map using a QPainter.

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

Inheritance diagram for MapPainter:



Public Types

```
    enum Element {
    Nothing = 0, CellBackground = 1, Grid = 2, CellSelection = 4,
    CellHighlighting = 8, Objects = 16, All = 31 }
```

The Element enum discribes 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 ()
- · RICoords viewCenter () const
- void setViewCenter (RICoords 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 cooToPxI (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)

10.39.1 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: RICoords, CICoords, PtCoords and PxCoords

10.39.2 Member Enumeration Documentation

10.39.2.1 Element

```
enum MapPainter::Element
```

The Element enum discribes 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 |, &, ^.

See also

Cell, CellType

Enumerator

Nothing	Represent no elements
CellBackground	The bacground 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

10.39.3 Constructor & Destructor Documentation

10.39.3.1 MapPainter() [1/2]

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

```
10.39.3.2 MapPainter() [2/2]
MapPainter::MapPainter (
              Map * m,
              QObject * parent = 0 )
Constructs a new MapPainter with a default size of (42,42), and loads the map m.
10.39.4 Member Function Documentation
10.39.4.1 cooToPt()
PtCoords MapPainter::cooToPt (
              {\tt ClCoords}\ p ) const
Converts cells indice to virtual point coordinates
10.39.4.2 cooToPxI()
PxCoords MapPainter::cooToPxl (
              ClCoords p ) const
Convenient function equivalent to ptToPxl(cooToPt(p))
10.39.4.3 hasHighlightedCell()
bool MapPainter::hasHighlightedCell ( ) const
Returns true if a cell is highligthed.
See also
     highlighted Cell,\,set Highlighted Cell\,
10.39.4.4 highlightedCell()
QPoint MapPainter::highlightedCell ( ) const
Returns the integer index of the cell the is highlighted.
```

See also

setHighlightedCell, hasHighlightedCell

10.39.4.5 indToPt()

Converts to coordinates

```
10.39.4.6 isCell()
```

Returns true if the coordinate c correspond to a cell.

10.39.4.7 mapSizeChanged

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, ...).

10.39.4.8 move()

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

10.39.4.9 paint()

Draws the map in the QPaintDevice.

See also

render

```
10.39.4.10 preSelectedCellColor()
const QColor & MapPainter::preSelectedCellColor ( ) const
Returns the color of the filter that is applied to pre-selected cells.
See also
     setPreSelectedCellColor, selectedCellColor
10.39.4.11 ptToCoo()
ClCoords MapPainter::ptToCoo (
              PtCoords p ) const
Converts virtual point to cell indice
10.39.4.12 ptToPxI()
PxCoords MapPainter::ptToPxl (
              PtCoords p ) const
Converts virtual point to real pixel coordinates
10.39.4.13 pxlToCoo()
ClCoords MapPainter::pxlToCoo (
              PxCoords p ) const
Convenient function equivalent to ptToCoo(pxlToPt(p))
10.39.4.14 pxlToPt()
PtCoords MapPainter::pxlToPt (
              PxCoords p ) const
Converts real pixel to virtual point coordinates
10.39.4.15 render()
const QImage & MapPainter::render ( )
Provides a QImage with a view of the map.
See also
     paint
```

```
10.39.4.16 resize() [1/2]
void MapPainter::resize (
              QSize s )
Change the size of the view, ie the rectangle in which the map will be render.
See also
     size
10.39.4.17 resize() [2/2]
void MapPainter::resize (
              int wi,
               int he )
This is an overload function, see resize
10.39.4.18 scale()
double MapPainter::scale ( ) const
Returns the current scale of the view.
See also
     setScale
10.39.4.19 selectedCellColor()
const QColor & MapPainter::selectedCellColor ( ) const
Returns the color of the filter that is applied to selected cells.
See also
     setSelectedCellColor, preSelectedCellColor
10.39.4.20 setHighlightedCell() [1/2]
```

Sets the highligthed cell to the one at the ClCoords p

const ClCoords & p)

See also

highlightedCell, hasHighlightedCell

bool MapPainter::setHighlightedCell (

```
10.39.4.21 setHighlightedCell() [2/2]
```

```
bool MapPainter::setHighlightedCell (  \mbox{int } i, \\ \mbox{int } j \mbox{)}
```

This is an overload function, see setViewCenter.

```
10.39.4.22 setMap()
```

Loads the map, computing the new size of the view area.

10.39.4.23 setPaintedElement()

Enables or disables the render of an element.

See also

setPaintedElements

10.39.4.24 setPaintedElements()

Sets the rendered elements.

See also

setPaintedElement

10.39.4.25 setPreSelectedCellColor()

```
void MapPainter::setPreSelectedCellColor ( {\tt const\ QColor\ \&\ c\ )}
```

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

See also

preSelectedCellColor, setSelectedCellColor

```
10.39.4.26 setScale()
```

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

See also

scale, setScaleDomain

10.39.4.27 setScaleDomain()

Sets the valid values for the scale.

See also

scale, setScale

10.39.4.28 setSelectedCellColor()

```
void MapPainter::setSelectedCellColor ( {\tt const\ QColor\ \&\ c\ )}
```

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

See also

selectedCellColor, setPreSelectedCellColor

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

This is an overload function, see setViewCenter.

10.39.4.31 setViewCenterQuiet()

```
void MapPainter::setViewCenterQuiet ( \label{eq:content} \mbox{double } x, \mbox{double } y \; )
```

does the same as setViewCenter, without emitting the signal viewCenterChanged to avoid event loop.

```
10.39.4.32 size()

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

10.39.4.33 viewCenter()

```
RlCoords MapPainter::viewCenter ( ) const
```

Return the relative coordinates of the current view center.

See also

setViewCenter

10.39.4.34 viewCenterChanged

This signal is emitted when the center of the map change.

It appends mainly during moving on the view and zooming.

10.39.4.35 virtualSize()

```
QSize MapPainter::virtualSize ( ) const

Computes the total size of the image of the map
```

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 particulary 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

10.40 MapsEditor Class Reference

The MapsEditor class is the tab offering map editing facilities.

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

Inheritance diagram for MapsEditor:



Public Slots

· void updateGame ()

Public Member Functions

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

10.40.1 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

10.41 MapsListModel Class Reference

The MapsListModel class provides a presentation class for the Qt Model-View framework.

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

Inheritance diagram for MapsListModel:



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

10.41.1 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

10.42 src.cursescli.MapViewer Class Reference

Public Member Functions

- def __init__ (self, m, w)
- def display (self, win)

Public Attributes

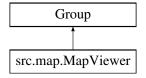
- map
- world
- · cellViews

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

· src/cursescli.py

10.43 src.map.MapViewer Class Reference

Inheritance diagram for src.map.MapViewer:



Public Member Functions

- def __init__ (self, currentMap, w)
- def load_chunks (self, bg)
- def make_walkables (self, bg)
- def zoom (self, dz)
- def move (self, dx, dy)
- def render (self)
- def onscreen_chunks (self)
- def update (self)
- def update_chunks (self)
- def propagate_trigger (self, event)
- def compute_path (self, start_pos, end_pos)
- def load_bg (self, path)

Public Attributes

- map
- world
- · cm height
- · width
- · height
- · screen_cgwidth
- · screen_cgheight
- walkablesGraph
- · last_curr_chunk
- current_chunk
- pos_offset
- · chunk_pos
- · chunks_state

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

· src/map.py

10.44 MapViewer Class Reference

The MapViewer class provides a widget to display and edit a Map using a MapPainter.

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

Inheritance diagram for MapViewer:



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

10.44.1 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.

10.44.2 Member Enumeration Documentation

10.44.2.1 SelectionMode

```
enum MapViewer::SelectionMode
```

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

The selection's behaviour in based on to 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 ${\tt Shift}$ 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

10.45 src.network.NetworkClient Class Reference

Public Member Functions

- def __init__ (self, handle)
- def askEntity (self, ent)
- · def connect (self)
- def run (self)
- def send (self, m)
- def sendEvent (self, obj, event)
- def kill (self)

Public Attributes

- handle
- alive
- writer

10.45.1 Detailed Description

```
This class manages the network activities of the client. It allows the client to send messages (describing events) to the server.
```

10.45.2 Member Function Documentation

```
10.45.2.1 askEntity()
```

Main loop of the client's network task. After connecting the socket to the server, wait for orders and handle them immediately until connection ends.

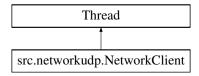
10.45.2.3 sendEvent()

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

· src/network.py

10.46 src.networkudp.NetworkClient Class Reference

Inheritance diagram for src.networkudp.NetworkClient:



Public Member Functions

- def __init__ (self, handle)
- def run (self)
- def send (self, m)
- def sendEvent (self, obj, eve)
- def kill (self)

Public Attributes

- handle
- soc
- alive

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

src/networkudp.py

10.47 src.network.NetworkServer Class Reference

Public Member Functions

- def __init__ (self, handle, loop)
- def waitForClients (self, n)
- def connect (self, reader, writer)
- def run (self)
- def sendOrder (self, ident, order)
- def broadcast (self, m)

Public Attributes

- handle
- loop
- alive
- · connections
- server

10.47.1 Detailed Description

This class is the task of the server that manages clients connections on his port. It keeps the list of connected clients and provides method to broadcast messages to all the clients.

10.47.2 Constructor & Destructor Documentation

The server listen on the port specified in const.py.

10.47.3 Member Function Documentation

```
10.47.3.1 run()
```

```
\label{eq:continuous} \mbox{def src.network.NetworkServer.run (} \\ self \mbox{)}
```

When a client tries to connect, the server adds him to the list and creates a new task managing communications with this client.

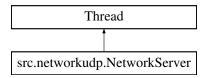
10.47.3.2 sendOrder()

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

src/network.py

10.48 src.networkudp.NetworkServer Class Reference

Inheritance diagram for src.networkudp.NetworkServer:



Public Member Functions

- def __init__ (self, handle)
- def waitForClients (self, n)
- def run (self)
- def sendOrder (self, ident, order)
- def broadcast (self, m)
- def kill (self)

Public Attributes

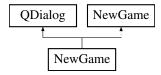
- handle
- soc
- alive
- · addr

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

src/networkudp.py

10.49 NewGame Class Reference

Inheritance diagram for NewGame:



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

10.50 Object Class Reference

The Object class.

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

Inheritance diagram for Object:



Public Member Functions

Object (Game *g, GameObject *parent)

Additional Inherited Members

10.50.1 Detailed Description

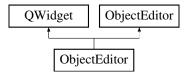
The Object class.

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

- src/editor/Game/object.h
- src/editor/Game/object.cpp

10.51 ObjectEditor Class Reference

Inheritance diagram for ObjectEditor:



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

10.52 ObjectFlagTableModel Class Reference

Inheritance diagram for ObjectFlagTableModel:



Public Member Functions

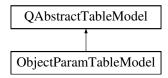
- ObjectFlagTableModel (GameObject *obj, QObject *parent=0)
- int rowCount (const QModelIndex &parent) const Q_DECL_OVERRIDE
- int columnCount (const QModelIndex &parent) const Q_DECL_OVERRIDE
- QVariant data (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- Qt::ItemFlags flags (const QModelIndex &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

10.53 ObjectParamTableModel Class Reference

Inheritance diagram for ObjectParamTableModel:



Public Member Functions

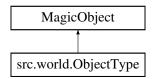
- ObjectParamTableModel (GameObject *obj, QObject *parent=0)
- int rowCount (const QModelIndex &parent) const Q DECL OVERRIDE
- int columnCount (const QModelIndex &parent) const Q DECL OVERRIDE
- QVariant data (const QModelIndex &index, int role) const Q_DECL_OVERRIDE
- Qt::ItemFlags flags (const QModelIndex &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

10.54 src.world.ObjectType Class Reference

Inheritance diagram for src.world.ObjectType:



Public Member Functions

- def __init__ (self, typ=MagicObject)
- def create (self)
- def __str__ (self)

Public Attributes

type

10.54.1 Detailed Description

```
Les types d'objets (au sens informatique)
```

10.54.2 Member Function Documentation

10.54.2.1 create()

```
\begin{tabular}{ll} $\operatorname{def} \ \operatorname{src.world.ObjectType.create} \ ( & self \ ) \\ \\ & \operatorname{Instanticiation} \ d'\operatorname{un} \ \operatorname{objet} \ \grave{\operatorname{a}} \ \operatorname{partir} \ \operatorname{du} \ \operatorname{type} \\ \\ \end{tabular}
```

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

src/world.py

10.55 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 ()

10.55.1 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 .

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 internaly, 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 retreived, 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, uisng 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

10.55.2 Member Function Documentation

10.55.2.1 isAdjustable()

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

See also

setAdjustable

10.55.2.2 load()

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

10.55.2.3 options()

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

Returns the unique Options instance.

10.55.2.4 reinitialise()

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

10.55.2.5 save()

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
```

10.55.2.6 setAdjustable()

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

See also

isAdjustable

10.55.2.7 setDefault()

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

10.56 src.orders.Order Class Reference

Public Member Functions

```
def __init__ (self)
def __getattr__ (self, attr)
def __setattr__ (self, attr, val)
def copy (self)
```

- def load (self, dat, named)
- def toBytes (self)
- def fromBytes (self, b)

Public Attributes

- type
- args

Static Public Attributes

• list **params** = [None] * (len(OrderType)+1)

10.56.1 Detailed Description

Représente une modification à apporter au monde

10.56.2 Member Function Documentation

10.56.2.1 fromBytes()

```
\begin{tabular}{ll} \tt def src.orders.Order.fromBytes ( \\ & self, \\ & b \end{tabular}
```

Récupère l'ordre à partir d'un bytes réseau

10.56.2.2 load()

```
def src.orders.Order.load ( self, \\ dat, \\ named )
```

Initialise l'ordre avec une structure provenant d'un Xml

10.56.2.3 toBytes()

```
def src.orders.Order.toBytes ( self \ ) Bytes pour envoyer l'ordre sur le réseau
```

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

• src/orders.py

10.57 src.orders.OrderDispatcher Class Reference

Public Member Functions

```
• def __init__ (self, world, handle, timer)
```

• def treat (self, emitter, order)

Public Attributes

- world
- handle
- timer

10.57.1 Detailed Description

```
Traite les ordres pour le client ou le serveur
```

10.57.2 Member Function Documentation

```
10.57.2.1 treat()
```

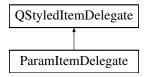
Traite un ordre et renvoie l'éventuel ordre à retransmettre

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

src/orders.py

10.58 ParamitemDelegate Class Reference

Inheritance diagram for ParamItemDelegate:



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

10.59 src.tools.Perf Class Reference

Public Member Functions

- def __init__ (self)
- def tic (self)
- def toc (self)
- def show (self)

Public Attributes

- num
- avg
- min
- max
- ٠t

10.59.1 Detailed Description

Calcule les performances d'un morceau de code

10.59.2 Member Function Documentation

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

· src/tools.py

10.60 PtCoords Class Reference

The PtCoords class describe positions with virtual point coordinates.

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

Inheritance diagram for PtCoords:



Public Member Functions

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

10.60.1 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

RICoords, CICoords, PxCoords

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

• src/editor/Game/mappainter.h

10.61 PxCoords Class Reference

The PxCoords class describe positions with real pixel coordinates.

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

Inheritance diagram for PxCoords:



Public Member Functions

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

10.61.1 Detailed Description

The PxCoords class describe positions with real pixel coordinates.

Theses coordinates describe the pixel position.

See also

RICoords, CICoords, PtCoords

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

src/editor/Game/mappainter.h

10.62 RICoords Class Reference

The RICoords class describe positions with relative coordinates.

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

Inheritance diagram for RICoords:



Public Member Functions

- RICoords (greal x, greal y)
- RICoords (const QPointF &p)

10.62.1 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

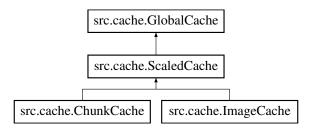
ClCoords PtCoords, PxCoords

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

• src/editor/Game/mappainter.h

10.63 src.cache.ScaledCache Class Reference

Inheritance diagram for src.cache.ScaledCache:



Public Member Functions

- def add_scaled (cls, elt, scale=1)
- def remove (cls, elt, scale=1)
- def get_elt (cls, elt, scale=1)
- def free_cache (cls)

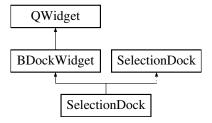
Additional Inherited Members

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

• src/cache.py

10.64 SelectionDock Class Reference

Inheritance diagram for SelectionDock:



Public Member Functions

SelectionDock (MapViewer *mv, QWidget *parent=0)

Additional Inherited Members

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

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

10.65 src.server.Server Class Reference

Public Member Functions

- def __init__ (self, path)
- def __del__ (self)
- def run (self)
- def main (self)
- · def handleEvent (self, emitter, event)

Public Attributes

- · loop
- net
- world
- · actions
- · timer
- orderDispatcher
- events
- pause
- coEntities

10.65.1 Detailed Description

Classe principale du processus serveur, concilie réseau, monde, actions et timer

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

src/server.py

10.66 src.network.ServerConnection Class Reference

Public Member Functions

- def __init__ (self, reader, writer, handle, parent)
- def run (self)
- def send (self, m)
- def end (self)

Public Attributes

- reader
- writer
- handle
- entity
- server

10.66.1 Detailed Description

This thread manages the communications with one particular client (one thread is created by client).

10.66.2 Member Function Documentation

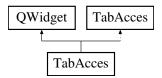
10.66.2.1 run() $\\ \text{def src.network.ServerConnection.run (} \\ self) \\ \\ \text{Wait for messages from the client and handle them immediately.}$

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

· src/network.py

10.67 TabAcces Class Reference

Inheritance diagram for TabAcces:



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

10.68 TabBar Class Reference

Inheritance diagram for TabBar:



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

10.69 src.tools.Timer Class Reference

Public Member Functions

- def __init__ (self, timeFunc=time)
- def add (self, time, func, args)
- def run (self)

Public Attributes

- dt
- · step
- · heap
- pause
- count
- time

10.69.1 Detailed Description

Déclenche des appels différés de couroutine

10.69.2 Member Function Documentation

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

· src/tools.py

10.70 src.utils.WalkableGraph Class Reference

Public Member Functions

```
def __init__ (self, walkables)
def get_neighbors (self, index)
def dist (self, u, v)
def get_path (self, source, dest)
```

Public Attributes

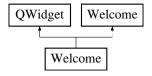
· walkables

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

• src/utils.py

10.71 Welcome Class Reference

Inheritance diagram for Welcome:



96 Class Documentation

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

10.72 src.world.World Class Reference

Inheritance diagram for src.world.World:



Public Member Functions

• def __init__ (self)

Public Attributes

- maps
- entities
- objects

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

• src/world.py

10.73 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

- . 0
- · bject
- ·s

Additional Inherited Members

10.73.1 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

10.74 WorldEditor Class Reference

Inheritance diagram for WorldEditor:



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

98 Class Documentation

10.75 src.printWorld.WorldViewer Class Reference

Inheritance diagram for src.printWorld.WorldViewer:



Public Member Functions

- def __init__ (self, w)
- def get_event (self)
- def end (self)
- def update (self)
- def render (self)
- def move (self, dx, dy)
- def move_char (self, ident, end_pos)
- def propagate_trigger (self, event)

Public Attributes

- · screen_size
- · current_map
- · main_char
- characters

10.75.1 Constructor & Destructor Documentation

10.75.2 Member Function Documentation

```
10.75.2.1 end() \label{eq:condition} \mbox{def src.printWorld.WorldViewer.end (} \\ self\ ) End the display
```

```
10.75.2.2 get_event()
def src.printWorld.WorldViewer.get_event (
              self )
Return current pygame events stack
10.75.2.3 move()
def src.printWorld.WorldViewer.move (
              self,
              dx,
              dy )
Move the current map by dx,dy, return the rectangle of
   modifications
10.75.2.4 move_char()
def src.printWorld.WorldViewer.move_char (
              self,
              ident,
              end_pos )
Move the entitie ident to cell end_pos
10.75.2.5 propagate_trigger()
def src.printWorld.WorldViewer.propagate_trigger (
              self,
              event )
Propagate event to next objects in the arborescence, here its the
    current map
10.75.2.6 render()
{\tt def src.printWorld.WorldViewer.render} \ (
              self )
```

Return the new image to show on screen

100 Class Documentation

10.75.2.7 update()

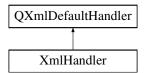
```
\label{eq:continuous} \mbox{def src.printWorld.WorldViewer.update (} \\ self \mbox{)} 
 Update the view
```

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

· src/printWorld.py

10.76 XmlHandler Class Reference

Inheritance diagram for XmlHandler:



Public Member Functions

- XmlHandler (Game *g)
- bool startElement (const QString &, const QString &localName, const QString &, const QXmlAttributes &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 11

File Documentation

11.1 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.

11.1.1 Detailed Description

Definition of the Game and World classes.

11.2 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.

Macros

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

11.2.1 Detailed Description

Definition of the Map, Cell and CellType classes.

11.2.2 Macro Definition Documentation

11.2.2.1 forCells

Usefull macro to set up a for on the cells

11.3 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 RICoords

The RICoords 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.

Macros

#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 $^{\wedge}$ is the flag substraction operation.

11.3.1 Detailed Description

Definition of the MapPainter class and other related classes to render maps.

This file defines four types of coordinates: RICoords, CICoords, 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

11.3.2 Function Documentation

11.3.2.1 operator^()

The operator $^{\wedge}$ is the flag substraction operation.

Warning

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

11.4 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

11.4.1 Detailed Description

Definition of Model/View presentation classes.

11.5 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 ressources a unique identifier.

· class Object

The Object class.

Macros

- #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##Objects]
 >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) ObjectListGetter(object,Objects, Type)
 ObjectListValues(objects,Objects, Type)
- #define ObjectListModifiers(Object, Objects, Type) ObjectListAdd(Object,Objects, Type) ObjectList
 — Take(Object, Objects, Type)
- #define ObjectList(object, Object, objects, Objects, Type) ObjectListDef(Objects,Type) ObjectList

 Cottors(object Object Obje
- Getters(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)

11.5.1 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

11.5.2 Macro Definition Documentation

11.5.2.1 Attr

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

```
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

11.5.2.2 AttrDef

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

```
Attr(Parent, GameObject)
-->
private:
    GameObject *aParent;
public:
```

See also

Attr

11.5.2.3 AttrGetter

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

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

See also

Attr, AttrSetter, C

11.5.2.4 AttrSetter

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

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

See also

Attr, AttrGetter, C

11.5.2.5 AttrT

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

```
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

11.5.2.6 C

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 undersanding.

Example

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**

```
C(Flag, v,V,isible)
   --> Flag(visible, Visible)
```

See also

C1

```
11.5.2.8 C1
```

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**

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

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

See also
```

FlagGetter, FlagSetter, C

11.5.2.10 FlagGetter

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 wether the flag named flag really exist. To avoid runtime access error, it is strongly advice to initialize the flag in the object's contructor, using the setter method or the SetFlag macro.

Example

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

See also

Flag, FlagSetter, C

11.5.2.11 FlagSetter

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

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

See also

```
Flag, FlagGetter, C
```

11.5.2.12 ObjectsMap

Deprecated

11.5.2.13 ObjectsMapC

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

11.5.2.14 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

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

See also

ParamGetter, ParamSetter, C

11.5.2.15 ParamGetter

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

Warning

The default getter method does not check wether the param named parameter really exist. To avoid runtime access error, it is strongly advice to initialize the parameter in the object's contructor, using the setter method or the SetParam macro.

Example

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

See also

Param, ParamSetter

11.5.2.16 ParamSetter

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

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

See also

Param, ParamGetter, C

11.5.2.17 SetFlag

Conveniant 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

```
SetFlag(visible, false)
  --> aFlags["visible"] = false
```

See also

Flag, FlagSetter, object.h

11.5.2.18 SetParam

Conveniant 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

```
SetParam(width, 42)
--> aParams["width"] = 42
```

See also

Param, ParamSetter, object.h

11.6 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, FCRessources, FCWorld,
        FCMap, FCEntity, FCObject }
```

Functions

const QMap< QString, FileContent > overHead ({ Asso("Game", FCGame), Asso("Ressources", FC← Ressources), Asso("World", FCWorld), Asso("Map", FCMap), Asso("Entity", FCEntity), Asso("Object", F← CObject) })

11.6.1 Detailed Description

Definition og the XmlHandler class and other related classes to read XML game's files.

11.7 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-independant options and preferences.

Macros

- #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"

11.7.1 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

11.7.2 Macro Definition Documentation

11.7.2.1 Default

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

11.7.2.2 DefaultF

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

```
11.7.2.3 DIR
```

```
#define DIR "Directories"
```

Group of paths options.

```
11.7.2.4 MAP
```

```
#define MAP "MapsEditor"
```

Group of MapsEditor related options.

11.7.2.5 WIN

```
#define WIN "Window"
```

Group of window related options.

11.8 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.

11.8.1 Detailed Description

Definition of the BColor class.

Author

Baptiste Pauget

11.9 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.

11.9.1 Detailed Description

Definition of the BDock class.

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