Super Martin Level Editor

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1 Data Structure Documentation

1.1 Cursor Struct Reference

#include <structures.h>

Data Fields

- int x
- int y
- char tileID

1.1.1 Detailed Description

The cursor structure

1.1.2 Field Documentation

1.1.2.1 char tileID

The tile ID

1.1.2.2 int x

The x coordinate

1.1.2.3 int y

The y coordinate

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

• structures.h

1.2 Input Struct Reference

```
#include <structures.h>
```

Data Fields

- char key [SDLK_LAST]
- char mouse [6]
- · int mouseX
- int mouseY
- int quit

1.2.1 Detailed Description

The input structure

1.2.2 Field Documentation

1.2.2.1 char key[SDLK_LAST]

all the keyboard keys: 1 the key is pushed, 0 isn't

1.2.2.2 char mouse[6]

all the mouse buttons: 1 the button is pushed, 0 isn't

1.2.2.3 int mouseX

The x coordinate of the mouse

1.2.2.4 int mouseY

The y coordinate of the mouse

1.2.2.5 int quit

is 1 is the SDL_QUIT event happens

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

· structures.h

1.3 Level Struct Reference

```
#include <structures.h>
```

Data Fields

- unsigned char ** map
- int width
- · int height
- int timer_level
- char tileSet [MAX_LENGTH_FILE_NAME]
- char background [MAX_LENGTH_FILE_NAME]
- char music [MAX_LENGTH_FILE_NAME]

1.3.1 Detailed Description

The level structure

1.3.2 Field Documentation

1.3.2.1 char background[MAX_LENGTH_FILE_NAME]

The background

1.3.2.2 int height

The height

1.3.2.3 unsigned char** map

The map

1.3.2.4 char music[MAX_LENGTH_FILE_NAME]

The music

1.3.2.5 char tileSet[MAX_LENGTH_FILE_NAME]

The tilset

1.3.2.6 int timer_level

The timer level

1.3.2.7 int width

The width

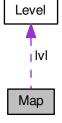
The documentation for this struct was generated from the following file:

• structures.h

1.4 Map Struct Reference

#include <structures.h>

Collaboration diagram for Map:



Data Fields

- Level * Ivl
- int xScroll
- · int screenWidth
- · int screenHeight

1.4.1 Detailed Description

The map structure

1.4.2 Field Documentation

1.4.2.1 Level* lvl

The level

1.4.2.2 int screenHeight

The screen height

1.4.2.3 int screenWidth

The Screen width

1.4.2.4 int xScroll

The xscroll

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

· structures.h

2 File Documentation

2.1 const.h File Reference

contient les constantes du programme

Macros

- #define TILE SIZE 16
- #define NB_TILES_X 80
- #define NB_TILES_Y 45
- #define SCREEN_WIDTH TILE_SIZE * NB_TILES_X
- #define SCREEN_HEIGHT TILE_SIZE * NB_TILES_Y
- #define TILESET_SIZE 20
- #define OPTIONS_PER_COLUMN 9
- #define FPS 60
- #define SCROLLING_MARGIN 2
- #define MAX_LENGTH_FILE_NAME 100
- #define min(a, b) (a<=b?a:b)

2.1 const.h File Reference

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Enumerations

enum {
 VOID =0, GROUND, COIN =7, ROCK,
 SPRING, HAMMER, HEART, ADDLIFE,
 ENEMY, CANON_R, CANON_L, CANON_B,
 TREE, FLOWER, CLOUD, PLATFORMV,
 PLATFORMH }

• enum { RIGHT, LEFT, UP, DOWN }

2.1.1 Detailed Description

contient les constantes du programme

Author

Xavier COPONET, Glenn HERROU

Date

2014-02-27

2.1.2 Macro Definition Documentation

2.1.2.1 #define FPS 60

The FPS

2.1.2.2 #define MAX_LENGTH_FILE_NAME 100

The size max of the filenames

2.1.2.3 #define min(a, b) (a<=b?a:b)

mix

2.1.2.4 #define NB_TILES_X 80

The number of tile on x

2.1.2.5 #define NB_TILES_Y 45

The number of tile on y

2.1.2.6 #define OPTIONS_PER_COLUMN 9

The number of options per column

2.1.2.7 #define SCREEN_HEIGHT TILE_SIZE * NB_TILES_Y

The screen height

2.1.2.8 #define SCREEN_WIDTH TILE_SIZE * NB_TILES_X

The screen width

2.1.2.9 #define SCROLLING_MARGIN 2

The scrolling margin

2.1.2.10 #define TILE_SIZE 16

The tile size

2.1.2.11 #define TILESET_SIZE 20

The tilset size

2.2 file.c File Reference

Functions to access to the files.

```
#include "file.h"
```

Functions

- FILE * openFile (char name[], char mode[])
- int closeFile (FILE *ptr_file)

2.2.1 Detailed Description

Functions to access to the files.

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-12

2.2.2 Function Documentation

2.2.2.1 int closeFile (FILE * ptr_file)

Close the given file

Parameters

in *ptr_file the file

Returns

0 if the file has been succesfully closed, 1 otherwise

2.2.2.2 FILE * openFile (char name[], char mode[])

Open a file which path is name with the given mode

in	name[]	name of the file

2.3 file.h File Reference 7

in <i>mod</i>

Returns

a pointer if the opening has been succesfull, NULL otherwise

2.3 file.h File Reference

file.c header

```
#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
```

Functions

- FILE * openFile (char nome[], char mode[])
- int closeFile (FILE *ptr_fichier)

2.3.1 Detailed Description

file.c header

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-12

2.3.2 Function Documentation

2.3.2.1 int closeFile (FILE * ptr_file)

Close the given file

Parameters

in	*ptr_file	the file
----	-----------	----------

Returns

0 if the file has been succesfully closed, 1 otherwise

2.3.2.2 FILE* openFile (char name[], char mode[])

Open a file which path is name with the given mode

in name[] name of the file

in	mode[]	the opening mode

Returns

a pointer if the opening has been succesfull, NULL otherwise

2.4 file_level.c File Reference

Management of the level files.

```
#include "file_level.h"
```

Functions

- Level * openLevel (char *file_name)
- void closeLevel (Level *IvI)
- Level * initLevel (Level *IvI)
- void writeLevel (char *file_name, Level *IvI)
- char ** readLevelFile (int *nb_lvl)
- void closeLevelList (char **level_names, int nb_lvl)
- Level * adaptSizeLevel (Level *IvI)
- int searchEndLevel (Level *IvI)

2.4.1 Detailed Description

Management of the level files.

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-12

Version

2.0

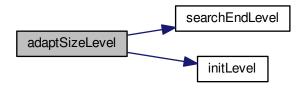
2.4.2 Function Documentation

2.4.2.1 Level * adaptSizeLevel (Level * IvI)

Adapt the width of a level

in, out /// the level to adapt	in,out	lvl	the level to adapt
------------------------------------	--------	-----	--------------------

Here is the call graph for this function:



2.4.2.2 void closeLevel (Level * IvI)

Close a level by freeing its allocated memory

Parameters

out	lvl	The level

2.4.2.3 void closeLevelList (char ** level_names, int nb_lvl)

Free the array containing the list of the levels

Parameters

in,out	level_names	the list of existing levels
in	nb_lvl	the number of existing levels

2.4.2.4 Level * initLevel (Level * IvI)

Initialize a level. The width and the Height of the level must be stored in the level before calling this function.

Parameters

out	lvl	The level

Returns

a pointer on the level initialized

2.4.2.5 Level * openLevel (char * file_name)

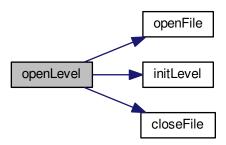
Open a level file and store the level corresponding to the file

in	file_name	the name of the level file
----	-----------	----------------------------

Returns

a pointer to the level created

Here is the call graph for this function:



2.4.2.6 char ** readLevelFile (int * nb_lvl)

Read the file including the list of existing levels

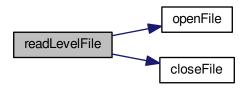
Parameters

out	nb_lvl	the number of level in the file
-----	--------	---------------------------------

Returns

a pointer to an array of strings containing the list of the levels

Here is the call graph for this function:



2.4.2.7 int searchEndLevel (Level * IvI)

Search the end of a level

Parameters

in,out	lvl	the level

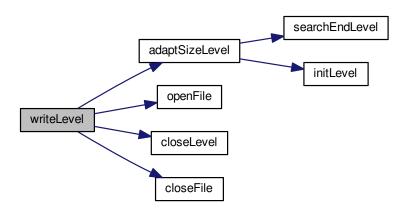
2.4.2.8 void writeLevel (char * file_name, Level * IvI)

Write the given level in the given file

Parameters

in	lvl	the file
in	file_name	the name of the file

Here is the call graph for this function:



2.5 file_level.h File Reference

file_level.c header

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "file.h"
#include "const.h"
#include "structures.h"
```

Macros

• #define BUFFER_SIZE 2

Functions

- Level * openLevel (char *file_name)
- void closeLevel (Level *IvI)
- Level * initLevel (Level *IvI)
- void writeLevel (char *file_name, Level *IvI)
- char ** readLevelFile (int *nb_lvl)

- void closeLevelList (char **level_names, int nb_lvl)
- Level * adaptSizeLevel (Level *IvI)
- int searchEndLevel (Level *IvI)

2.5.1 Detailed Description

file_level.c header

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-12

Version

2.0

- 2.5.2 Macro Definition Documentation
- 2.5.2.1 #define BUFFER_SIZE 2

The buffer size

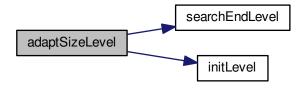
- 2.5.3 Function Documentation
- 2.5.3.1 Level* adaptSizeLevel (Level * IvI)

Adapt the width of a level

Parameters

in,out	lvl	the level to adapt

Here is the call graph for this function:



2.5.3.2 void closeLevel (Level * IvI)

Close a level by freeing its allocated memory

Parameters

out	lvl	The level

2.5.3.3 void closeLevelList (char ** level_names, int nb_lvl)

Free the array containing the list of the levels

Parameters

in,out	level_names	the list of existing levels
in	nb_lvl	the number of existing levels

2.5.3.4 Level* initLevel (Level * IvI)

Initialize a level. The width and the Height of the level must be stored in the level before calling this function.

Parameters

out	lvl	The level
-----	-----	-----------

Returns

a pointer on the level initialized

2.5.3.5 Level* openLevel (char * file_name)

Open a level file and store the level corresponding to the file

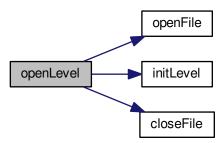
Parameters

in	file_name	the name of the level file

Returns

a pointer to the level created

Here is the call graph for this function:



2.5.3.6 char** readLevelFile (int * nb_lvl)

Read the file including the list of existing levels

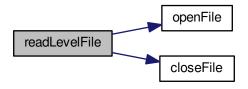
Parameters

out	nb_lvl	the number of level in the file

Returns

a pointer to an array of strings containing the list of the levels

Here is the call graph for this function:



2.5.3.7 int searchEndLevel (Level * IvI)

Search the end of a level

Parameters

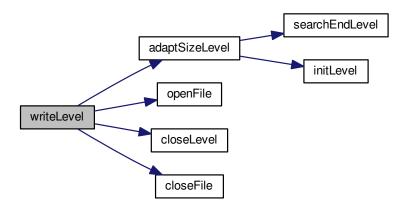
in,out	lvl	the level

2.5.3.8 void writeLevel (char * file_name, Level * IvI)

Write the given level in the given file

in	lvl	the file
in	file_name	the name of the file

Here is the call graph for this function:



2.6 game.c File Reference

Contain the main functions of the game.

```
#include "game.h"
```

Functions

- void play (SDL_Surface *screen, char *level_name, SDLKey *kc)
- void printConfirmation (SDL_Surface *screen, Input *in, int *go)

2.6.1 Detailed Description

Contain the main functions of the game.

Author

Xavier COPONET, Glenn HERROU

Date

2014-05-15

2.6.2 Function Documentation

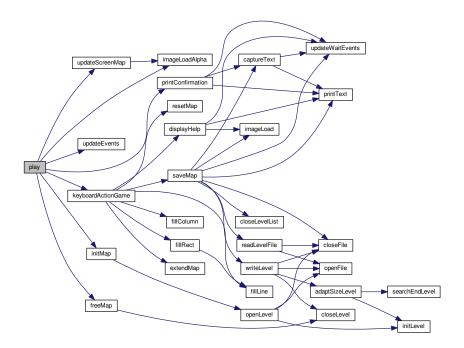
2.6.2.1 void play (SDL_Surface * screen, char * level_name, SDLKey * kc)

Include the main loop of the game

Parameters

in,out	screen	The screen of the game
in	level_name	The name of the level
in	kc	The keyboard configuration

Here is the call graph for this function:



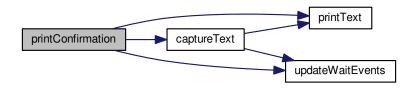
2.6.2.2 void printConfirmation (SDL_Surface * screen, Input * in, int * go)

Display the confirmation screen, before leaving the edition of a level

Parameters

out	screen	The screen of the game
in	in	The input structure
out	go	The main loop activation

Here is the call graph for this function:



2.7 game.h File Reference

game.c header

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include "const.h"
#include "structures.h"
#include "text.h"
#include "share.h"
#include "include "image.h"
#include "map.h"
#include "input.h"
```

Functions

- void play (SDL_Surface *screen, char *level_name, SDLKey *kc)
- void printConfirmation (SDL_Surface *screen, Input *in, int *go)

2.7.1 Detailed Description

game.c header

Author

Xavier COPONET, Glenn HERROU

Date

2014-05-15

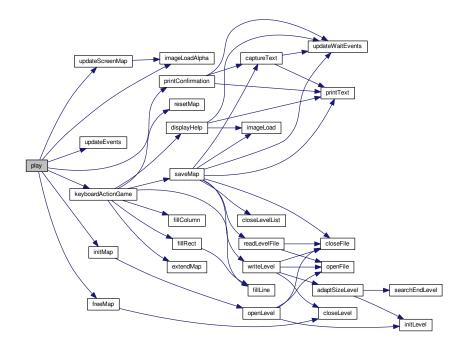
2.7.2 Function Documentation

2.7.2.1 void play (SDL_Surface * screen, char * level_name, SDLKey * kc)

Include the main loop of the game

in,out	screen	The screen of the game
in	level_name	The name of the level
in	kc	The keyboard configuration

Here is the call graph for this function:



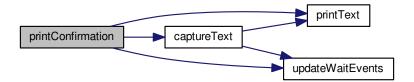
2.7.2.2 void printConfirmation (SDL_Surface * screen, Input * in, int * go)

Display the confirmation screen, before leaving the edition of a level

Parameters

out	screen	The screen of the game
in	in	The input structure
out	go	The main loop activation

Here is the call graph for this function:



2.8 image.c File Reference

Contain the functions managing the images.

#include "image.h"

Functions

- SDL_Surface * imageLoad (char *file_name)
- SDL_Surface * imageLoadAlpha (char *file_name)

2.8.1 Detailed Description

Contain the functions managing the images.

Author

Rémi BERTHO

Date

2014-02-27

2.8.2 Function Documentation

```
2.8.2.1 SDL_Surface * imageLoad ( char * file_name )
```

Load an image

Parameters

in	file_name	the name of the image file
----	-----------	----------------------------

Returns

a pointer on the SDL_Surface created

```
2.8.2.2 SDL_Surface * imageLoadAlpha ( char * file_name )
```

Load an image with alpha management

Parameters

in	file_name	the name of the image file
----	-----------	----------------------------

Returns

a pointer on the SDL_Surface created

2.9 image.h File Reference

contient les fonction liées aux images

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include "const.h"
```

Functions

- SDL_Surface * imageLoad (char *file_name)
- SDL_Surface * imageLoadAlpha (char *file_name)

2.9.1 Detailed Description

contient les fonction liées aux images

Author

Rémi BERTHO

Date

2014-02-27

2.9.2 Function Documentation

2.9.2.1 SDL_Surface* imageLoad (char * file_name)

Load an image

Parameters

in	file_name	the name of the image file
----	-----------	----------------------------

Returns

a pointer on the SDL_Surface created

2.9.2.2 SDL_Surface* imageLoadAlpha (char * file_name)

Load an image with alpha management

Parameters

in	file_name	the name of the image file
----	-----------	----------------------------

Returns

a pointer on the SDL_Surface created

2.10 input.c File Reference

```
#include "input.h"
```

Functions

- void updateEvents (Input *in)
- void keyboardActionGame (SDL_Surface *screen, Input *in, Map *m, Cursor *cursor, SDLKey *kc)
- int updateWaitEvents (Input *in)
- int keyboardActionMenu (Input *in, int *cursorPos, int *select, int nb_options)

2.10.1 Detailed Description

Author

Xavier COPONET, Glenn HERROU

Date

2014-03-18

2.10.2 Function Documentation

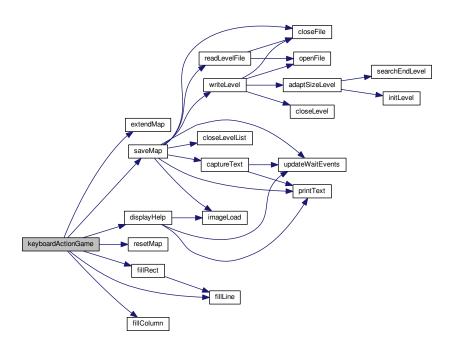
2.10.2.1 void keyboardActionGame (SDL_Surface * screen, Input * in, Map * m, Cursor * cursor, SDLKey * kc)

perform action commanded by keyboard action

Parameters

in,out	screen	The screen of the game
in,out	in	the input structure
in,out	т	the map to update
in,out	cursor	the cursor structure
in	kc	the keyboard bindings

Here is the call graph for this function:



2.10.2.2 void keyboardActionMenu (Input * in, int * cursorPos, int * select, int nb_options)

perform menu action commanded by keyboard action

Parameters

in	in	the input structure
out	cursorPos	the cursor position
out	select	boolean about selecting the option or quit to title screen
in	nb_options	the number of options of the menu

2.10.2.3 void updateEvents (Input * in)

get keyboard input with a SDL_PollEvent

Parameters

out	in	the input structure
-----	----	---------------------

2.10.2.4 int updateWaitEvents (Input * in)

get keyboard input with a SDL_WaitEvent

Parameters

|--|

Returns

1 if a key is activated

2.11 main.c File Reference

```
#include "game.h"
#include "const.h"
#include "menu.h"
#include "menu_level.h"
#include "menu_option.h"
```

Functions

• int main (int argc, char *argv[])

2.11.1 Detailed Description

Author

Xavier COPONET

Date

2014-02-27

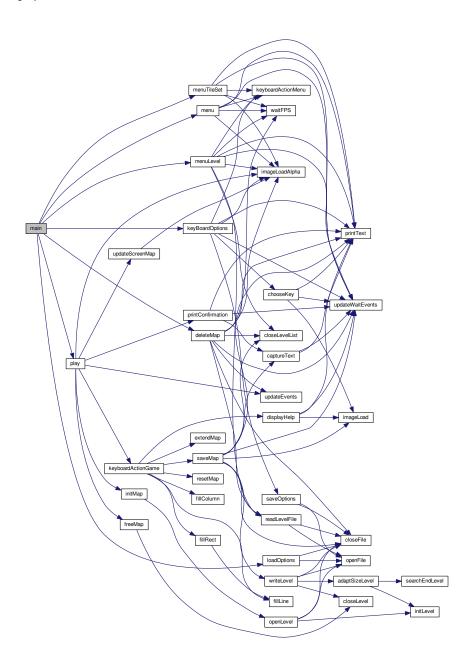
2.11.2 Function Documentation

2.11.2.1 int main (int argc, char * argv[])

Main

in,out	argc	argc
in,out	argv	argv

Here is the call graph for this function:



2.12 map.c File Reference

Management of the map.

#include "map.h"

Functions

- void updateScreenMap (SDL_Surface *screen, Map *m, char *tileset, Cursor *cursor)
- Map * initMap (SDL_Surface *screen, char *level_name)
- void fillLine (Map *m, int line, int column, char tileID)
- void fillColumn (Map *m, int line, int column, char tileID)

- void fillRect (Map *m, int line, int column, char tileID)
- void displayHelp (SDL_Surface *screen, SDLKey *kc)
- void saveMap (SDL_Surface *screen, Map *m)
- void deleteMap (SDL_Surface *screen, char *map_name, char *map_path)
- void extendMap (Map *m)
- void resetMap (Map *m)
- void freeMap (Map *m)

2.12.1 Detailed Description

Management of the map.

Author

Xavier COPONET, Glenn HERROU

Date

2014-05-18

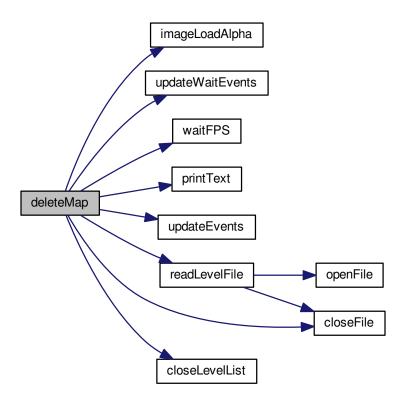
2.12.2 Function Documentation

2.12.2.1 void deleteMap (SDL_Surface * screen, char * map_name, char * map_path)

Delete a the map file and update the level list file

in,out	screen	The screen of the game
in	map_name	The name of the map to delete
in	map_path	The path to the file of the map to delete

Here is the call graph for this function:

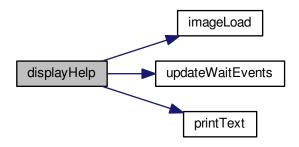


2.12.2.2 void displayHelp (SDL_Surface * screen, SDLKey * kc)

Display the list of keybindings on the screen

in,out	screen	The screen of the game
in	kc	The array containing the keybindings

Here is the call graph for this function:



2.12.2.3 void extendMap (Map * m)

Extend the width of a map

Parameters

out	m	The map to extend

2.12.2.4 void fillColumn (Map * m, int line, int column, char tileID)

Fill a column with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	т	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

2.12.2.5 void fillLine (Map * m, int line, int column, char tilelD)

Fill a line with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	т	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

2.12.2.6 void fillRect (Map * m, int line, int column, char tilelD)

Fill a rectangle with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	m	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

Here is the call graph for this function:



2.12.2.7 void freeMap (Map * m)

Free memory allocated to the map

Parameters

in,out	m	the map

Here is the call graph for this function:



2.12.2.8 Map * initMap (SDL_Surface * screen, char * level_name)

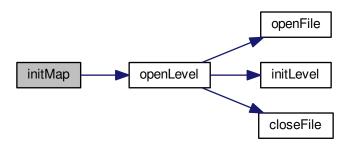
initialize the map

in	screen	game screen
in	level_name	Ivl name

Returns

a pointer on the map

Here is the call graph for this function:



2.12.2.9 void resetMap (Map * m)

Fill a map with blank tiles. This function doesn't change the current map file.

Parameters

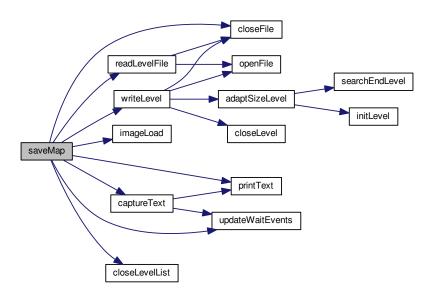
in,out	m	The map to reinit
--------	---	-------------------

2.12.2.10 void saveMap (SDL_Surface * screen, Map * m)

Save the map in a new file and update the file 'level' containing the map list

in,out	screen	The screen of the game
in	m	The map to save

Here is the call graph for this function:



2.12.2.11 void updateScreenMap (SDL_Surface * screen, Map * m, char * tileset, Cursor * cursor)

update and display the map on the screen

Parameters

in,out	screen	The screen of the game
in	т	The map
in	tileset	The level tileset
in	cursor	The mouse cursor

Here is the call graph for this function:



2.13 map.h File Reference

map.c header

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include "image.h"
#include "file_level.h"
#include "input.h"
#include "text.h"
#include "share.h"
```

Functions

- void updateScreenMap (SDL_Surface *screen, Map *m, char *tileset, Cursor *cursor)
- Map * initMap (SDL_Surface *screen, char *level_name)
- void fillLine (Map *m, int line, int column, char tileID)
- void fillColumn (Map *m, int line, int column, char tileID)
- void fillRect (Map *m, int line, int column, char tileID)
- void displayHelp (SDL_Surface *screen, SDLKey *kc)
- void saveMap (SDL_Surface *screen, Map *m)
- void deleteMap (SDL_Surface *screen, char *map_name, char *map_path)
- void extendMap (Map *m)
- void resetMap (Map *m)
- void freeMap (Map *m)

2.13.1 Detailed Description

map.c header

Author

Xavier COPONET, Glenn HERROU

Date

2014-05-18

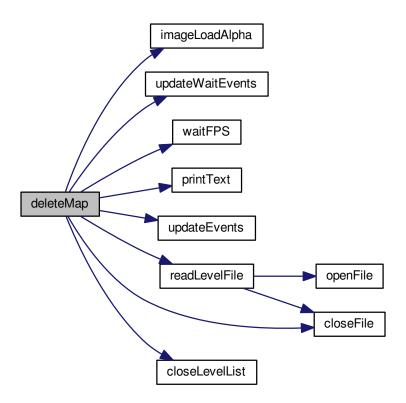
2.13.2 Function Documentation

2.13.2.1 void deleteMap (SDL_Surface * screen, char * map_name, char * map_path)

Delete a the map file and update the level list file

in,out	screen	The screen of the game
in	map_name	The name of the map to delete
in	map_path	The path to the file of the map to delete

Here is the call graph for this function:

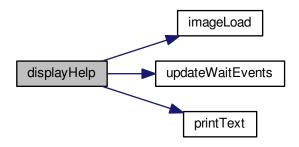


2.13.2.2 void displayHelp (SDL_Surface * screen, SDLKey * kc)

Display the list of keybindings on the screen

in,out	screen	The screen of the game
in	kc	The array containing the keybindings

Here is the call graph for this function:



2.13.2.3 void extendMap (Map * m)

Extend the width of a map

Parameters

O11±	m	The map to extend
Out	111	The map to extend

2.13.2.4 void fillColumn (Map * m, int line, int column, char tileID)

Fill a column with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	т	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

2.13.2.5 void fillLine (Map * m, int line, int column, char tilelD)

Fill a line with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	m	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

2.13.2.6 void fillRect (Map * m, int line, int column, char tilelD)

Fill a rectangle with the current tile. The filling stops if another non-void tile is reached. This function works only with ground tiles

Parameters

in	m	The map
in	line	The line pointed by the cursor
in	column	The column pointed by the cursor
in	tileID	the tile ID

Here is the call graph for this function:



2.13.2.7 void freeMap (Map * m)

Free memory allocated to the map

Parameters

in,out	m	the map

Here is the call graph for this function:



2.13.2.8 Map* initMap (SDL_Surface * screen, char * level_name)

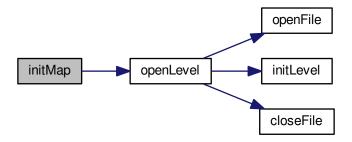
initialize the map

in	screen	game screen
in	level_name	Ivl name

Returns

a pointer on the map

Here is the call graph for this function:



2.13.2.9 void resetMap (Map * m)

Fill a map with blank tiles. This function doesn't change the current map file.

Parameters

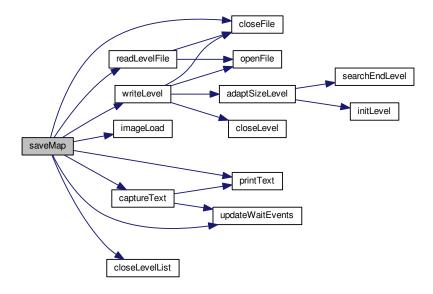
in,out	т	The map to reinit

2.13.2.10 void saveMap (SDL_Surface * screen, Map * m)

Save the map in a new file and update the file 'level' containing the map list

in,out	screen	The screen of the game
in	m	The map to save

Here is the call graph for this function:



2.13.2.11 void updateScreenMap (SDL_Surface * screen, Map * m, char * tileset, Cursor * cursor)

update and display the map on the screen

Parameters

in,out	screen	The screen of the game
in	т	The map
in	tileset	The level tileset
in	cursor	The mouse cursor

Here is the call graph for this function:



2.14 menu.c File Reference

Contain the main menu management.

#include "menu.h"

Functions

int menu (SDL_Surface *screen, int *choice, int *go)

• int menuTileSet (SDL_Surface *screen, char tileSet_name[MAX_LENGTH_FILE_NAME])

2.14.1 Detailed Description

Contain the main menu management.

Author

Glenn HERROU

Date

2014-04-20

2.14.2 Function Documentation

2.14.2.1 int menu (SDL_Surface * screen, int * choice, int * go)

Display the menu on the screen

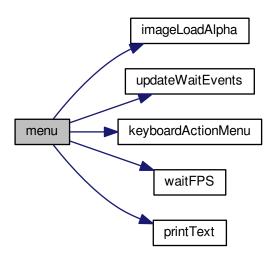
Parameters

out	screen	the screen of the game
out	choice	the option selected
out	go	the main loop validation

Returns

1 if an option has been selected

Here is the call graph for this function:



2.14.2.2 int menuTileSet (SDL_Surface * screen, char tileSet_name[MAX_LENGTH_FILE_NAME])

Display the tileset menu on the screen

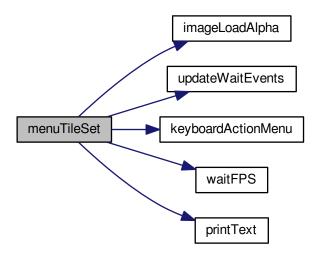
Parameters

out	screen	the screen of the game
out	tileSet_name	The name of the tileSet selected

Returns

1 if a tileset has been selected

Here is the call graph for this function:



2.15 menu.h File Reference

header de menu.c

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include <SDL/SDL_ttf.h>
#include "const.h"
#include "text.h"
#include "share.h"
#include "image.h"
#include "input.h"
```

Functions

- int menu (SDL_Surface *screen, int *choice, int *go)
- int menuTileSet (SDL_Surface *screen, char tileSet_name[MAX_LENGTH_FILE_NAME])

2.15.1 Detailed Description

header de menu.c

Author

Xavier COPONET

Date

2014-02-27

2.15.2 Function Documentation

2.15.2.1 int menu (SDL_Surface * screen, int * choice, int * go)

Display the menu on the screen

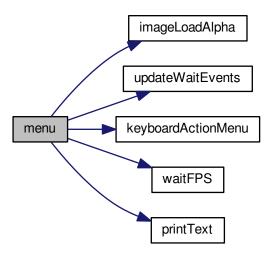
Parameters

out	screen	the screen of the game
out	choice	the option selected
out	go	the main loop validation

Returns

1 if an option has been selected

Here is the call graph for this function:



2.15.2.2 int menuTileSet (SDL_Surface * screen, char tileSet_name[MAX_LENGTH_FILE_NAME])

Display the tileset menu on the screen

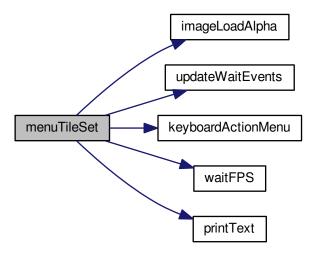
Parameters

out	screen	the screen of the game
out	tileSet_name	The name of the tileSet selected

Returns

1 if a tileset has been selected

Here is the call graph for this function:



2.16 menu_level.c File Reference

Contain the level menu management.

#include "menu_level.h"

Functions

int menuLevel (SDL_Surface *screen, char level_name[MAX_LENGTH_FILE_NAME], char level_path[MAX_LENGTH_FILE_NAME])

2.16.1 Detailed Description

Contain the level menu management.

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-10

Version

2.0

2.16.2 Function Documentation

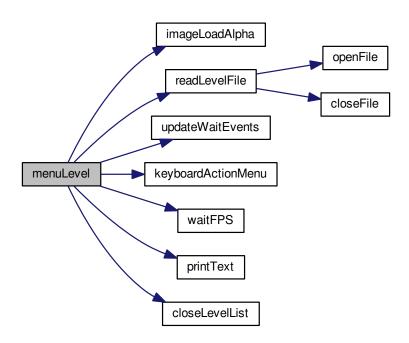
2.16.2.1 int menuLevel (SDL_Surface * screen, char level_name[MAX_LENGTH_FILE_NAME], char level_path[MAX_LENGTH_FILE_NAME])

Display the level menu on the screen

Parameters

out	screen	The screen of the game
out	level_name	The level name
out	level_path	The level file path

Here is the call graph for this function:



2.17 menu_level.h File Reference

menu_level.c header

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include <SDL/SDL_ttf.h>
#include "const.h"
#include "file_level.h"
#include "share.h"
#include "text.h"
#include "image.h"
#include "input.h"
```

Functions

 int menuLevel (SDL_Surface *screen, char level_name[MAX_LENGTH_FILE_NAME], char level_path[MAX_ _LENGTH_FILE_NAME])

2.17.1 Detailed Description

menu_level.c header

Author

Remi BERTHO, Glenn HERROU

Date

2014-05-10

Version

2.0

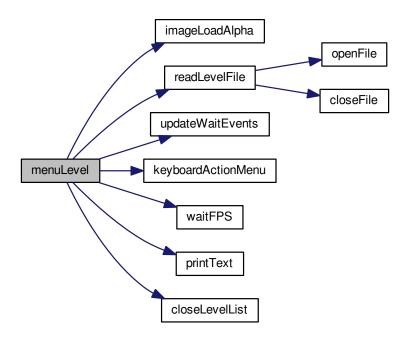
2.17.2 Function Documentation

2.17.2.1 int menuLevel (SDL_Surface * screen, char level_name[MAX_LENGTH_FILE_NAME], char level_path[MAX_LENGTH_FILE_NAME])

Display the level menu on the screen

out	screen	The screen of the game
out	level_name	The level name
out	level_path	The level file path

Here is the call graph for this function:



2.18 menu_option.c File Reference

contain the option menu functions

#include "menu_option.h"

Functions

- int menuOptions (SDL_Surface *screen, int *go, SDLKey *kc)
- void keyBoardOptions (SDL_Surface *screen, int *go, SDLKey *kc)
- void chooseKey (SDL_Surface *screen, Input *in, char *action, SDLKey *kc, int nb)

2.18.1 Detailed Description

contain the option menu functions

Author

Xavier COPONET

Date

2014-04-27

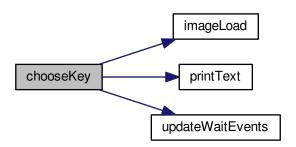
- 2.18.2 Function Documentation
- 2.18.2.1 void chooseKey (SDL_Surface * screen, Input * in, char * action, SDLKey * kc, int nb)

print the message asking the player to choose a key and wait until the player press a key and deals with this key

Parameters

out	screen	the game screen
in,out	in	the input structure
in	action	the action which the key has to be choosen
out	kc	the keyboard configuration
in	nb	the number of the action

Here is the call graph for this function:

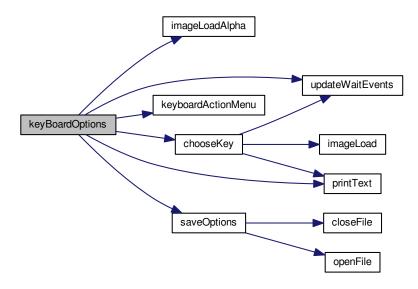


2.18.2.2 void keyBoardOptions (SDL_Surface * screen, int * go, SDLKey * kc)

print the keyboard options and deals with the user choises

out	screen	the game screen
in,out	go	main loop validation
in,out	kc	the keyboard config

Here is the call graph for this function:



2.18.2.3 int menuOptions (SDL_Surface * screen, int * go, SDLKey * kc)

print the option menu on the screen

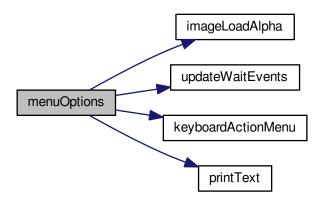
Parameters

out	screen	the game screen
in,out	go	main loop validation
in,out	kc	the keyboard configuration

Returns

the number of the option which is choosen, -1 if esc

Here is the call graph for this function:



2.19 menu_option.h File Reference

menu_option.c header

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include <SDL/SDL_ttf.h>
#include "const.h"
#include "text.h"
#include "share.h"
#include "image.h"
#include "input.h"
#include "option.h"
```

Functions

- int menuOptions (SDL_Surface *screen, int *go, SDLKey *kc)
- void keyBoardOptions (SDL_Surface *screen, int *go, SDLKey *kc)
- void chooseKey (SDL_Surface *screen, Input *in, char *action, SDLKey *kc, int nb)

2.19.1 Detailed Description

menu_option.c header

Author

Xavier COPONET

Date

2014-04-27

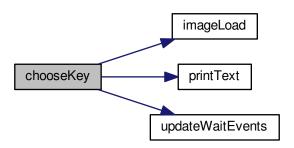
2.19.2 Function Documentation

2.19.2.1 void chooseKey (SDL_Surface * screen, Input * in, char * action, SDLKey * kc, int nb)

print the message asking the player to choose a key and wait until the player press a key and deals with this key Parameters

out	screen	the game screen
in,out	in	the input structure
in	action	the action which the key has to be choosen
out	kc	the keyboard configuration
in	nb	the number of the action

Here is the call graph for this function:

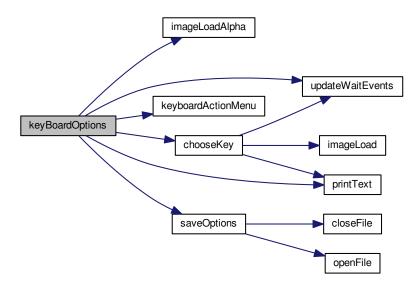


2.19.2.2 void keyBoardOptions (SDL_Surface * screen, int * go, SDLKey * kc)

print the keyboard options and deals with the user choises

out	screen	the game screen
in,out	go	main loop validation
in,out	kc	the keyboard config

Here is the call graph for this function:



2.19.2.3 int menuOptions (SDL_Surface * screen, int * go, SDLKey * kc)

print the option menu on the screen

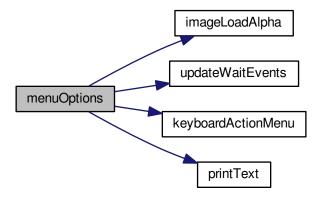
Parameters

out	screen	the game screen
in,out	go	main loop validation
in,out	kc	the keyboard configuration

Returns

the number of the option which is choosen, -1 if esc

Here is the call graph for this function:



2.20 option.c File Reference

contains the functions that manipulate the options

```
#include "option.h"
```

Functions

- void loadOptions (char confFile[], SDLKey *kc)
- void saveOptions (char confFile[], SDLKey *kc)

2.20.1 Detailed Description

contains the functions that manipulate the options

Author

Xavier COPONET, Glenn HERROU

Date

2014-04-28

2.20.2 Function Documentation

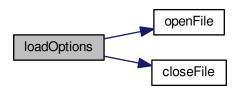
2.20.2.1 void loadOptions (char confFile[], SDLKey * kc)

Load the options from the config file

Parameters

in	confFile	the config file path
out	kc	the keyboard configuration structure

Here is the call graph for this function:



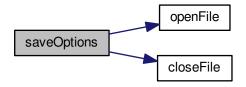
2.20.2.2 void saveOptions (char confFile[], SDLKey * kc)

save the options to the config file

Parameters

in	confFile	the config file path
in	kc	the keyboard configuration structure

Here is the call graph for this function:



2.21 option.h File Reference

option.c header

```
#include "file.h"
#include "structures.h"
#include "input.h"
```

Functions

- void loadOptions (char confFile[], SDLKey *kc)
- void saveOptions (char confFile[], SDLKey *kc)

2.21.1 Detailed Description

option.c header

Author

Xavier COPONET

Date

2014-04-28

2.21.2 Function Documentation

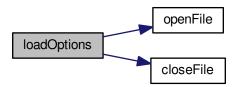
2.21.2.1 void loadOptions (char confFile[], SDLKey *kc)

Load the options from the config file

Parameters

in	confFile	the config file path
out	kc	the keyboard configuration structure

Here is the call graph for this function:

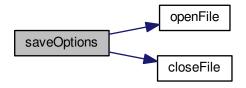


2.21.2.2 void saveOptions (char confFile[], SDLKey *kc)

save the options to the config file

in	confFile	the config file path
in	kc	the keyboard configuration structure

Here is the call graph for this function:



2.22 share.c File Reference

Management of FPS rate.

#include "share.h"

Functions

void waitFPS (int *previous_time, int *current_time)

2.22.1 Detailed Description

Management of FPS rate.

Author

Remi BERTHO

Date

15/03/14

Version

1.0

2.22.2 Function Documentation

2.22.2.1 void waitFPS (int * previous_time, int * current_time)

Function managing the fps rate

in,ou	DIEVIOUS IIIIE	The previous time
in,ou	current_time	The current time

2.23 share.h File Reference

share.c header

```
#include "const.h"
#include <SDL/SDL.h>
```

Functions

void waitFPS (int *previous_time, int *current_time)

2.23.1 Detailed Description

share.c header

Author

Remi BERTHO

Date

15/03/14

Version

1.0

2.23.2 Function Documentation

```
2.23.2.1 void waitFPS ( int * previous_time, int * current_time )
```

Function managing the fps rate

Parameters

in,out	previous_time	The previous time
in,out	current time	The current time

2.24 text.c File Reference

Management of the display of text on the screen.

```
#include "text.h"
```

Functions

- void printText (SDL_Surface *screen, SDL_Rect *posText, char *text, int r, int g, int b, char *font, int ptSize, int mode)
- void captureText (SDL_Surface *screen, SDL_Rect posText, char *text, int text_length, int r, int g, int b, char *font, int text_size, int *go)

2.24.1 Detailed Description

Management of the display of text on the screen.

Author

Xavier COPONET, Glenn HERROU

Date

2014-04-27

2.24.2 Function Documentation

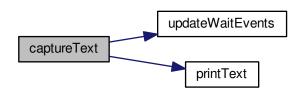
2.24.2.1 void captureText (SDL_Surface * screen, SDL_Rect posText, char * text, int text_length, int r, int g, int b, char * font, int text_size, int * g0)

Capture the text corresponding to the keyboard inputs and display it on the screen at the given position

Parameters

out	screen	The screen of the game
in	posText	The position of the text. If NULL, the text is centered
out	text	The text to display
in	r	red value
in	g	green value
in	b	blue value
in	text_length	the text length
in	font	The path to the font file
in	text_size	The text size
out	go	The main loop validation

Here is the call graph for this function:



2.24.2.2 void printText (SDL_Surface * screen, SDL_Rect * posText, char * text, int r, int g, int b, char * font, int ptSize, int mode)

Display the given text on the screen, at the given position

out	screen	The screen of the game
in	posText	The position of the text. If NULL, the text is centered
in	text	The text to display
in	r	red value
in	g	green value
in	b	blue value
in	font	The path to the font file
in	ptSize	The text size
in	mode	The writing mode: 0 (Solid), 1 (Blended)

2.25 text.h File Reference

text.c header

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include "structures.h"
#include <SDL/SDL.h>
#include <SDL/SDL_image.h>
#include <SDL/SDL_ttf.h>
#include "input.h"
```

Functions

- void printText (SDL_Surface *screen, SDL_Rect *posText, char *text, int r, int g, int b, char *font, int ptSize, int mode)
- void captureText (SDL_Surface *screen, SDL_Rect posText, char *text, int text_length, int r, int g, int b, char *font, int text_size, int *go)

2.25.1 Detailed Description

text.c header

Author

Xavier COPONET, Glenn HERROU

Date

2014-04-27

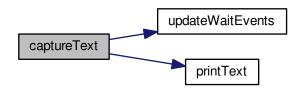
2.25.2 Function Documentation

2.25.2.1 void captureText (SDL_Surface * screen, SDL_Rect posText, char * text, int text_length, int r, int g, int b, char * font, int text_size, int * go)

Capture the text corresponding to the keyboard inputs and display it on the screen at the given position

out	screen	The screen of the game
in	posText	The position of the text. If NULL, the text is centered
out	text	The text to display
in	r	red value
in	g	green value
in	b	blue value
in	text_length	the text length
in	font	The path to the font file
in	text_size	The text size
out	go	The main loop validation

Here is the call graph for this function:



2.25.2.2 void printText (SDL_Surface * screen, SDL_Rect * posText, char * text, int r, int g, int b, char * font, int ptSize, int mode)

Display the given text on the screen, at the given position

out	screen	The screen of the game
in	posText	The position of the text. If NULL, the text is centered
in	text	The text to display
in	r	red value
in	g	green value
in	b	blue value
in	font	The path to the font file
in	ptSize	The text size
in	mode	The writing mode: 0 (Solid), 1 (Blended)

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