labo_08_gachet_jean_gallay_david

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Contents

Index

1	File	Index			1
	1.1	File Lis	st		1
2	File	Docum	entation		3
	2.1	game_	of_life.h F	ile Reference	3
		2.1.1	Macro D	refinition Documentation	3
			2.1.1.1	ALIVE	3
			2.1.1.2	ALIVE_CHAR	3
			2.1.1.3	DEAD	4
			2.1.1.4	DEAD_CHAR	4
			2.1.1.5	HEIGHT	4
			2.1.1.6	WIDTH	4
		2.1.2	Function	Documentation	4
			2.1.2.1	computeMultipleGens()	4
			2.1.2.2	computeNextGen()	5
			2.1.2.3	displayGame()	5
			2.1.2.4	preFillGame()	5

7

Chapter 1

File Index

1	1	Fila	liet

Here is a list of all files with brief descriptions:			
game_of_life.h	 	 	 (

2 File Index

Chapter 2

File Documentation

2.1 game_of_life.h File Reference

Macros

- #define HEIGHT 9
- #define WIDTH 9
- #define ALIVE true
- #define DEAD false
- #define ALIVE_CHAR 'X'
- #define DEAD_CHAR 'O'

Functions

- bool computeNextGen (bool currentGen[HEIGHT][WIDTH])
- void computeMultipleGens (bool currentGen[HEIGHT][WIDTH], unsigned n, bool autoStop=true)
- void displayGame (const bool game[HEIGHT][WIDTH])
- void preFillGame (bool game[HEIGHT][WIDTH])

2.1.1 Macro Definition Documentation

2.1.1.1 ALIVE

#define ALIVE true

2.1.1.2 ALIVE_CHAR

#define ALIVE_CHAR 'X'

File Documentation

2.1.1.3 DEAD

```
#define DEAD false
```

2.1.1.4 **DEAD_CHAR**

```
#define DEAD_CHAR 'O'
```

2.1.1.5 HEIGHT

```
#define HEIGHT 9
```

2.1.1.6 WIDTH

```
#define WIDTH 9
```

2.1.2 Function Documentation

2.1.2.1 computeMultipleGens()

```
void computeMultipleGens (
          bool currentGen[HEIGHT][WIDTH],
          unsigned n,
          bool autoStop = true )
```

Take a game and computes the n next generations (stops if a stable state is reached). Displays the game after each generation.

Parameters

currentGen	[IN] current state of the game [OUT] new state of the game		
n	number of generations to compute		
autoStop	stops if no more changes are detected between generations		

2.1.2.2 computeNextGen()

Take a game and computes the next generation.

Parameters

currentGen [IN] current state of the game [OUT] new state of the game

Returns

if a change occured

2.1.2.3 displayGame()

Display the game.

Parameters

game

2.1.2.4 preFillGame()

Prefill game with DEAD macro value

Parameters

game Bi-dimensional bool array

6 File Documentation

Index

```
ALIVE_CHAR
    game_of_life.h, 3
ALIVE
    game_of_life.h, 3
computeMultipleGens
    game_of_life.h, 4
computeNextGen
    game_of_life.h, 4
DEAD_CHAR
    game_of_life.h, 4
DEAD
    game_of_life.h, 3
displayGame
    game_of_life.h, 5
game_of_life.h, 3
    ALIVE_CHAR, 3
    ALIVE, 3
    computeMultipleGens, 4
    computeNextGen, 4
    DEAD_CHAR, 4
    DEAD, 3
    displayGame, 5
    HEIGHT, 4
    preFillGame, 5
    WIDTH, 4
HEIGHT
    game_of_life.h, 4
preFillGame
    game_of_life.h, 5
WIDTH
    game_of_life.h, 4
```