Tetris

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# **Chapter 1**

# **Tetris**

A tetris clone

2 Tetris

# **Chapter 2**

# **Data Structure Index**

## 2.1 Data Structures

Here are the data structures with brief descriptions:

gameBoa	ırdType	)																				7
shape .																				 		8
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4 Data Structure Index

# **Chapter 3**

# **File Index**

## 3.1 File List

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

layout.c																									_1
layout.h																									-1
main.c .																									-1
shape.c																									-1
shape.h																 									2

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## **Chapter 4**

## **Data Structure Documentation**

## 4.1 gameBoardType Struct Reference

## **Data Fields**

- int shape\_board [BLOCKS\_DOWN][BLOCKS\_ACROSS]
- int blocked\_board [BLOCKS\_DOWN][BLOCKS\_ACROSS]
- int temp\_board [BLOCKS\_DOWN][BLOCKS\_ACROSS]
- bool hasShapeBeingChosen
- bool GameOver

## 4.1.1 Detailed Description

ADT of a number of game boards

## 4.1.2 Field Documentation

## 4.1.2.1 blocked\_board

int blocked\_board[BLOCKS\_DOWN] [BLOCKS\_ACROSS]

Contains occupied squares

#### 4.1.2.2 GameOver

bool GameOver

Is game finished?

## 4.1.2.3 hasShapeBeingChosen

bool hasShapeBeingChosen

Decides whether a new shape is required

#### 4.1.2.4 shape\_board

int shape\_board[BLOCKS\_DOWN] [BLOCKS\_ACROSS]

Contains the active shape

## 4.1.2.5 temp\_board

int temp\_board[BLOCKS\_DOWN][BLOCKS\_ACROSS]

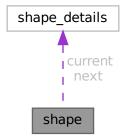
Used to copy the entire board temporarily

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

• shape.c

## 4.2 shape Struct Reference

Collaboration diagram for shape:



## **Data Fields**

- shape\_details current
- shape\_details next
- Vector2 next\_board\_shape [4]
- · int fall counter
- int \* ptrToArray

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

• shape.c

## 4.3 shape\_details Struct Reference

## **Data Fields**

- int shape\_number
- int full\_details [4][4]
- int coordinates [4]
- int rotation
- Color colour

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

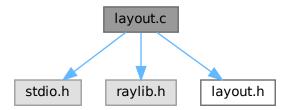
• shape.c

## **Chapter 5**

## **File Documentation**

## 5.1 layout.c File Reference

```
#include <stdio.h>
#include <raylib.h>
#include "layout.h"
Include dependency graph for layout.c:
```



## **Functions**

- void layoutDrawBoard (void)
- void layoutDrawNextShapeBoard (void)
- void layoutMenu (void)
- int layoutNavigation (int keyPress)

## 5.1.1 Function Documentation

## 5.1.1.1 layoutDrawBoard()

Draw horizontal and vertical lines of the game board to screen

## 5.1.1.2 layoutDrawNextShapeBoard()

```
\label{local_problem} \mbox{void layoutDrawNextShapeBoard (} \\ \mbox{void )}
```

Draw horizontal and vertical lines of the next shape board

## 5.1.1.3 layoutMenu()

```
void layoutMenu (
     void )
```

Draw text for the menu options

## 5.1.1.4 layoutNavigation()

Function that returns integer representing menu choice

#### **Parameters**

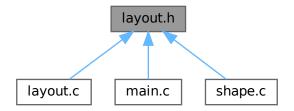
in	keyPress	
----	----------	--

### Return values

oice	integer representing menu c	<keypress></keypress>
------	-----------------------------	-----------------------

## 5.2 layout.h File Reference

This graph shows which files directly or indirectly include this file:



#### **Macros**

- #define WIDTH 600
- #define HEIGHT 600
- #define SQUARE 20
- #define BOARD\_LEFT\_POSITION WIDTH \* 0.5
- #define BOARD\_TOP\_POSITION HEIGHT \* 0.1
- #define BLOCKS\_ACROSS 10
- #define BLOCKS\_DOWN 20
- #define MENU POS X WIDTH/20
- #define MENU\_POS\_Y HEIGHT/12
- #define MENU\_TXT\_SIZE WIDTH/20
- #define NEXT\_SHAPE\_TOP\_LEFT\_X BOARD\_LEFT\_POSITION (8 \* SQUARE)
- #define NEXT\_SHAPE\_X\_CALC(x)
- #define NEXT\_SHAPE\_Y\_CALC(x)

#### **Functions**

- void layoutDrawBoard (void)
- void layoutMenu (void)
- · int layoutNavigation (int keyPress)

### 5.2.1 Macro Definition Documentation

## 5.2.1.1 BLOCKS\_ACROSS

```
#define BLOCKS_ACROSS 10
```

How many columns is our gameboard?

## 5.2.1.2 BLOCKS\_DOWN

```
#define BLOCKS_DOWN 20
```

How many rows is our gameboard

## 5.2.1.3 BOARD\_LEFT\_POSITION

```
\#define BOARD_LEFT_POSITION WIDTH * 0.5
```

Left side of game board as a ratio of width (starting from left side of screen

## 5.2.1.4 BOARD\_TOP\_POSITION

```
#define BOARD_TOP_POSITION HEIGHT * 0.1
```

Top position of board as ratio of height (starting from top of the screen)

## 5.2.1.5 HEIGHT

```
#define HEIGHT 600
```

screen height

## 5.2.1.6 MENU\_POS\_X

```
#define MENU_POS_X WIDTH/20
```

Where is our menu text position (x)?

## 5.2.1.7 **MENU\_POS\_Y**

```
#define MENU_POS_Y HEIGHT/12
```

Where is out menu text position (y)?

## 5.2.1.8 MENU\_TXT\_SIZE

```
#define MENU_TXT_SIZE WIDTH/20
```

Text size

## 5.2.1.9 NEXT\_SHAPE\_TOP\_LEFT\_X

```
#define NEXT_SHAPE_TOP_LEFT_X BOARD_LEFT_POSITION - (8 * SQUARE)
```

Next shape details. The top left corner of our imaginary next shape board (hidden)

## 5.2.1.10 NEXT\_SHAPE\_X\_CALC

### Value:

```
((NEXT_SHAPE_TOP_LEFT_X) + (x * SQUARE))
```

Macro returns how many squares across from next shape start point as an integer. Used for placement of each square (x)

## 5.2.1.11 NEXT\_SHAPE\_Y\_CALC

## Value:

```
((BOARD_TOP_POSITION) + (x * SQUARE) )
```

Macro returns how many squares down from next shape start point as an integer. Used for placement of each square (y)

## 5.2.1.12 SQUARE

```
#define SQUARE 20
```

Square size in pixels

## 5.2.1.13 WIDTH

```
#define WIDTH 600
```

screen width

## 5.2.2 Function Documentation

## 5.2.2.1 layoutDrawBoard()

Draw horizontal and vertical lines of the game board to screen

## 5.2.2.2 layoutMenu()

```
void layoutMenu (
     void )
```

Draw text for the menu options

## 5.2.2.3 layoutNavigation()

Function that returns integer representing menu choice

## **Parameters**

```
in keyPress
```

## Return values

<keypress> integer</keypress>	representing menu choice
-------------------------------	--------------------------

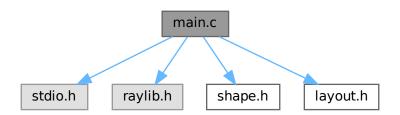
## 5.3 layout.h

#### Go to the documentation of this file.

```
00001
00002 #ifndef LAYOUT_H
00003 #define LAYOUT_H 00007 #define WIDTH 600
80000
00011 #define HEIGHT 600
00012
00015 #define SQUARE 20
00016
00021 #define BOARD_LEFT_POSITION
                                        WIDTH * 0.5
00022
00027 #define BOARD_TOP_POSITION
                                        HEIGHT * 0.1
00028
00032 #define BLOCKS_ACROSS 10
00033
00036 #define BLOCKS_DOWN
00037
00041 #define MENU_POS_X WIDTH/20
00042
00045 #define MENU_POS_Y HEIGHT/12
00046
00049 #define MENU TXT SIZE WIDTH/20
00050
00055 #define NEXT_SHAPE_TOP_LEFT_X
                                      BOARD_LEFT_POSITION - (8 * SQUARE)
00061 #define NEXT_SHAPE_X_CALC(x) ((NEXT_SHAPE_TOP_LEFT_X) + (x * SQUARE))
00062
00067 \#define NEXT_SHAPE_Y_CALC(x) ((BOARD_TOP_POSITION) + (x * SQUARE) )
00068
00069 void layoutDrawBoard(void);
00070 //void layoutDrawNextShapeBoard(void);
00071 void layoutMenu(void);
00072 int layoutNavigation(int keyPress);
00073
00074 #endif
```

## 5.4 main.c File Reference

```
#include <stdio.h>
#include <raylib.h>
#include "shape.h"
#include "layout.h"
Include dependency graph for main.c:
```



#### **Enumerations**

• enum gamestate { MENU , START , EXIT }

## **Functions**

• int main (void)

## 5.4.1 Enumeration Type Documentation

## 5.4.1.1 gamestate

enum gamestate

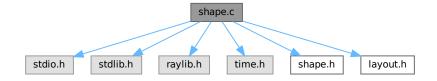
#### Enumerator

MENU	Tetris remains on menu screen
START	Tetris starts
EXIT	Tetris exits

## 5.5 shape.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <raylib.h>
#include "time.h"
#include "shape.h"
#include "layout.h"
```

Include dependency graph for shape.c:



### **Data Structures**

- struct gameBoardType
- struct shape\_details
- struct shape

## **Typedefs**

- typedef struct gameBoardType gameBoardType
- typedef struct shape\_details shape\_details
- typedef struct shape shape

#### **Functions**

- · gameBoard ShapeInitBoard (void)
- int getNumber (void)
- void generateNextAndActiveShape (gameBoard gameBoard ptr)
- void transferShapeDetails (int array[], int array\_full[][4], int shape, int rotation)
- Color getColorDetails (int shape)
- void putActiveShapeOnBoard (gameBoard gameBoard\_ptr)
- void putOnBlockedBoard (gameBoard gameBoard ptr)
- void clearScreen (gameBoard gameBoard ptr)
- void drawActiveShape (gameBoard gameBoard ptr)
- void drawBlockedShapes (gameBoard gameBoard ptr)
- void drawNextShape (gameBoard gameBoard ptr)
- void drawScore (int score)
- void FallActiveShape (gameBoard gameBoard\_ptr)
- bool ShapelsInLeftColumn (void)
- bool ShapelsInRightColumn (void)
- bool IsAtFloor (gameBoard gameBoard\_ptr)
- bool IsOnTop (gameBoard gameBoard ptr)
- bool IsOnSide (gameBoard gameBoard ptr)
- int IsRowFull (gameBoard gameBoard ptr)
- bool destroyRow (gameBoard gameBoard ptr, int row)
- void MoveLeft (void)
- void MoveRight (void)
- void MoveUp (void)
- bool MoveDown (gameBoard gameBoard\_ptr)
- void freeBoard (gameBoard gameBoard\_ptr)

## **Variables**

• shape Shape

## 5.5.1 Typedef Documentation

## 5.5.1.1 gameBoardType

```
\verb|typedef| struct gameBoardType| gameBoardType|
```

ADT of a number of game boards

## 5.5.2 Function Documentation

#### 5.5.2.1 clearScreen()

Clear shape from current frame and reset array values for next placement.

## 5.5.2.2 destroyRow()

Cycle through array and for each element that isn't -1, remove that row from the board

#### **Parameters**

in	gameBoard_ptr	
in	array	

## 5.5.2.3 drawActiveShape()

```
\begin{tabular}{ll} \begin{tabular}{ll} void drawActiveShape ( \\ & gameBoard \end{tabular} \end{tabular} \begin{tabular}{ll} gameBoard \end{tabular} \end{tabular} \begin{tabular}{ll} \begin{tabular}{ll} gameBoard \end{tabular} \end{tabular} \begin{tabular}{ll} gameBoard \end{tabular} \end{tabular} \begin{tabular}{ll} gameBoard \end{tabular} \begin{tabular}{ll} gameBoard
```

Draw active shape onto raylib coordinates using the function DrawRectangle

## 5.5.2.4 drawBlockedShapes()

Draw blocked squares to screen

#### **Parameters**

## 5.5.2.5 drawNextShape()

Draws next shape to the left of game board

### **Parameters**

```
in gameBoard_ptr
```

## 5.5.2.6 drawScore()

```
void drawScore (
          int score)
```

Draw score to screen

#### 5.5.2.7 FallActiveShape()

Allows shape to move by moving to the next row down

## 5.5.2.8 freeBoard()

Deallocate memory

## 5.5.2.9 generateNextAndActiveShape()

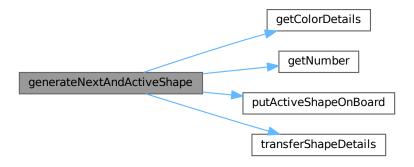
```
\label{eq:condition} \mbox{void generateNextAndActiveShape (} \\ \mbox{gameBoard } \mbox{\it gameBoard\_ptr})
```

This function allocates details to the global variable Shape a variable of type shape\_details

#### **Parameters**

in	gameBoard	Check if a shape has been chosen	
----	-----------	----------------------------------	--

Here is the call graph for this function:



## 5.5.2.10 getColorDetails()

Select the appropriate colour for the next shape

## **Parameters**

in shape An empty value that requires popula
--

## **Return values**

<li>list[shape]&gt;</li>	Returns colour value
--------------------------	----------------------

Here is the caller graph for this function:

```
generateNextAndActiveShape

getColorDetails

ShapeInitBoard
```

## 5.5.2.11 getNumber()

```
\begin{array}{c} \text{int getNumber (} \\ & \text{void )} \end{array}
```

## Returns

Number used in the generation of next random shape

Here is the caller graph for this function:

```
generateNextAndActiveShape getNumber
```

## 5.5.2.12 IsAtFloor()

Checks if any square of the moving shape is one the bottom row

## **Parameters**

in	gameBoard_ptr	

## 5.5.2.13 IsOnSide()

Function to check if there is a block to left side of active shape

## 5.5.2.14 IsOnTop()

Function that checks position of shape. If there is a blocked shape underneath return true.

#### **Parameters**

in	gameBoard_ptr	
----	---------------	--

## 5.5.2.15 IsRowFull()

If a row is full of blocked tiles, add that row number to array

#### **Parameters**

in	gameBoard_ptr	
out	array	array containing 4 elements set to -1
out	pointer	to variable score

## 5.5.2.16 MoveDown()

Not yet used

## 5.5.2.17 MoveLeft()

```
void MoveLeft (
     void )
```

Move object left

### 5.5.2.18 MoveRight()

```
void MoveRight (
     void )
```

Move object right

#### 5.5.2.19 MoveUp()

```
void MoveUp (
     void )
```

Changes current rotation value of moving shape by altering global variable member Shape.current

## 5.5.2.20 putActiveShapeOnBoard()

Function that moves pointer a specified distance four times using Shape.current.coordinates to place a '1' on the shape\_board to signal a moving block

#### **Parameters**

out	gameBoard_ptr	Accesses four elements of the member shape_board
-----	---------------	--

Here is the caller graph for this function:



## 5.5.2.21 putOnBlockedBoard()

Function that moves a pointer a specified distance four times using Shape.current.coordinates to place a '1' on the blocked\_board to signal an occupied space. Takes moving shape off the board and converts it to a blocked shape. Signals that a current shape is no longer in existence.

## **Parameters**

```
out | gameBoard_ptr | Accesses four elements of the member blocked_board
```

#### 5.5.2.22 ShapeInitBoard()

Allocate space for a pointer to type gameBoard and initialise some values.

#### Return values

<gameboard_ptr></gameboard_ptr>	Returns a pointer of type gameBoard
---------------------------------	-------------------------------------

Here is the call graph for this function:



## 5.5.2.23 ShapeIsInLeftColumn()

```
bool ShapeIsInLeftColumn ( \label{eq:column} \mbox{void} \mbox{ )}
```

Checks the current shape position for its shape positions returns true if at edge

## 5.5.2.24 ShapeIsInRightColumn()

Checks the current shape position for its shape positions returns true if at edge

## 5.5.2.25 transferShapeDetails()

Transfer shape details (coordinates etc) to supplied arguments

## **Parameters**

out	array	Where are we sending the current shape array data?
out	array_full	Where are we sending the full shape data (each rotation)?
out	shape	The shape that is in use
out	rotation	Used to iterate onto next rotation when Up arrow is pressed

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Here is the caller graph for this function:

generateNextAndActiveShape transferShapeDetails

## 5.6 shape.h

```
00001
00002 #ifndef SHAPE_H
00003 #define SHAPE_H
00004
00005 typedef struct gameBoardType *gameBoard;
00006 gameBoard ShapeInitBoard(void);
00008 int getNumber(void);
00009 void generateNextAndActiveShape(gameBoard gameBoard_ptr);
00010 void transferShapeDetails(int array[], int array_full[][4], int shape, int rotation);
00011 Color getColorDetails(int shape);
00012
00013 void putActiveShapeOnBoard(gameBoard gameBoard_ptr);
00014
00015 void putOnBlockedBoard(gameBoard gameBoard_ptr);
00016
00017 void drawActiveShape(gameBoard gameBoard_ptr);
00018 void drawBlockedShapes(gameBoard gameBoard_ptr);
00019 void drawNextShape(gameBoard gameBoard_ptr);
00020
00021 void drawScore(int score);
00022
00023 void clearScreen(gameBoard gameBoard_ptr);
00024 void FallActiveShape(gameBoard gameBoard_ptr);
00026 bool ShapeIsInLeftColumn(void);
00027 bool ShapeIsInRightColumn(void);
00028 bool IsAtFloor(gameBoard gameBoard_ptr);
00029 bool IsOnTop(gameBoard gameBoard_ptr);
00030 bool IsOnSide(gameBoard gameBoard_ptr);
00031
00032 int IsRowFull(gameBoard gameBoard_ptr);
00033 bool destroyRow(gameBoard gameBoard_ptr, int row);
00034 static bool FallBlocked(gameBoard gameBoard_ptr, int i);
00035
00036 void MoveLeft (void):
00037 void MoveRight (void);
00038 void MoveUp (void);
00039 bool MoveDown (gameBoard gameBoard_ptr);
00040
00041 void freeBoard(gameBoard gameBoard_ptr);
00042
00043 #endif
00044
00045
```

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