

My Project

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Chapter 1

Class Index

1.1 Class List

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

Game	The main Game class. You should make a derived class from it	5
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HexMap	Useful class for using hex maps	9
Info	Usable class for printing real-time info	12
MultiStream	Class used to combining multiple streams into one	14

Chapter 2

File Index

2.1 File List

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

Common.h		
	Contains some useful functions and commonFont	17
Config.h	??
CTcpFwd.h	??
Game.h		
	Contains the main Game class	19
GameState.h		
	Contains the GameState class	20
HexMap.h		
	Contains the HexMap class	21
Info.h		
	Contains the Info class	22
Log.h		
	Contains the MultiStream class	23
PropertiesEditor.h	??
Settings.h	??
StreamWindow.h	??
Wrapper.h		
	Contains a few useful functions for communication with server	24

Chapter 3

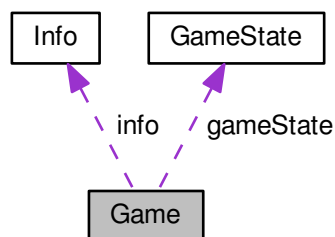
Class Documentation

3.1 Game Class Reference

The main [Game](#) class. You should make a derived class from it.

```
#include <Game.h>
```

Collaboration diagram for Game:



Public Member Functions

- `sf::Vector2f getMousePosition ()`
Returns mouse cursor position after applying camera transform.
- `void moveCamera (float cx, float cy, float zoom=1.f)`
Moves camera so that its centered at (cx, cy) and zoomed with specified factor.
- `void run ()`
This function simply runs the game until the main window is closed or an exception fired.
- `template<class T >`
`void addDrawable (const T &x)`
This function simply calls `gameState.addDrawable(x)`
- `void showOutputWindow ()`
Shows window with content of mout and merr.
- `int getTurnsLeft ()`
Returns the number of turns left.

Protected Member Functions

- virtual void `draw ()`
You can override this function for custom real-time drawing.
- virtual void `update ()`
You can override this function for custom real-time updates.
- virtual void `sync ()`
This function should contain all synchronisation with server.
- virtual void `firstSync ()`
You can override this function if you want the first sync to behave differently. Otherwise normal `sync()` will be called.
- virtual void `sendCommands ()`
You can write sending commands code in this function.
- virtual void `myProcessEvent (const sf::Event &event)`
You can override this function for event handling. However, it doesn't handle mouse events.
- virtual void `leftClick (sf::Vector2f position)`
This function is called whenever the user clicks left mouse button.
- virtual void `rightClick (sf::Vector2f position)`
This function is called whenever the user clicks right mouse button.
- virtual void `selectedRect (sf::FloatRect rect)`
This function is called after selecting a rectangle area with mouse.

Protected Attributes

- sf::RenderWindow `window`
The window. You can use it to call `window.draw(something)`
- int `turnsLeft = 1e9`
The turns left counter. It updates every turn.
- `GameState gameState`
The game state. It contains all drawables and logs. Can be used to call `gameState.addDrawable(something)`

3.1.1 Detailed Description

The main `Game` class. You should make a derived class from it.

3.1.2 Member Function Documentation

3.1.2.1 virtual void Game::leftClick (sf::Vector2f position) [inline],[protected],[virtual]

This function is called whenever the user clicks left mouse button.

Parameters

<i>position</i>	the coordinates of mouse pointer after applying camera transform
-----------------	--

3.1.2.2 void Game::moveCamera (float *cx*, float *cy*, float *zoom* = 1.f)

Moves camera so that its centered at (*cx*, *cy*) and zoomed with specified factor.

Parameters

<i>cx</i>	the x-coordinate of center
<i>cy</i>	the y-coordinate of center
<i>zoom</i>	the zoom factor

3.1.2.3 virtual void Game::myProcessEvent (const sf::Event & *event*) [inline], [protected], [virtual]

You can override this function for event handling. However, it doesn't handle mouse events.

Parameters

<i>event</i>	the sfml event
--------------	----------------

See also

[leftClick](#), [rightClick](#), [selectedRect](#)

3.1.2.4 virtual void Game::rightClick (sf::Vector2f *position*) [inline], [protected], [virtual]

This function is called whenever the user clicks right mouse button.

Parameters

<i>position</i>	the coordinates of mouse pointer after applying camera transform
-----------------	--

3.1.2.5 virtual void Game::selectedRect (sf::FloatRect *rect*) [inline], [protected], [virtual]

This function is called after selecting a rectangle area with mouse.

Parameters

<i>rect</i>	the selected area
-------------	-------------------

3.1.2.6 virtual void Game::sendCommands () [inline], [protected], [virtual]

You can write sending commands code in this function.

When SEND_COMMANDS_LATE is off it is run right after [sync\(\)](#). Otherwise it is run after `turnDuration` which is either specified or measured automatically (not recommended)

CAUTION: this function is not run after [firstSync\(\)](#) (you can do it manually)

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

- [Game.h](#)
- Game.cpp

3.2 GameState Class Reference

This class contains the state of the game. It draws it, shows the output window and saves game for further viewing.

```
#include <GameState.h>
```

Public Member Functions

- [GameState](#) (string title="Output")
[GameState.](#)
- void [showWindow](#) ()
Shows the window with the content of mout and merr.
- template<class T >
void [addDrawable](#) (const T &x)
Adds x to the drawables list.

3.2.1 Detailed Description

This class contains the state of the game. It draws it, shows the output window and saves game for further viewing.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 GameState::GameState (string *title* = "Output ")

[GameState.](#)

Parameters

<i>title</i>	The output window's title
--------------	---------------------------

3.2.3 Member Function Documentation

3.2.3.1 template<class T > void GameState::addDrawable (const T &x) [inline]

Adds x to the drawables list.

The drawable can be one of the following types: `sf::CircleShape`, `sf::RectangleShape`, `sf::ConvexShape`, `sf::Text`. It is shown until the next turn and saved for later replays

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

- [GameState.h](#)
- `GameState.cpp`

3.3 HexMap Class Reference

Useful class for using hex maps.

```
#include <HexMap.h>
```

Public Member Functions

- [HexMap](#) ()=default
The default constructor.
- [HexMap](#) (int rows, int columns, float size=30.f)
Simply calls `init(rows, columns, size)`
- void [init](#) (int rows, int columns, float size=30.f)
Initializes the map. Initially, all hexes are white.
- int [rowCount](#) () const
Returns the number of rows.
- int [colCount](#) () const
Returns the number of columns.
- void [setColor](#) (int row, int column, sf::Color color)
Sets the color of a selected hex.
- sf::Color [getColor](#) (int row, int column) const
Gets the color of a selected hex.
- sf::Vector2f [getPosition](#) (int row, int column) const
Returns position of the center of a selected hex.
- pair< int, int > [getHex](#) (sf::Vector2f position) const
Returns pair of (row, column) coords of the hex which contains the position.
- void [draw](#) (GameState &gameState) const
adds all drawables to the gameState
- void [draw](#) (sf::RenderWindow &window) const
draws the map directly to the window
- vector< pair< int, int > > [getNeighbours](#) (int row, int column) const
Returns position of each neighbour of the hex on (row, column)

3.3.1 Detailed Description

Useful class for using hex maps.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 HexMap::HexMap (int rows, int columns, float size = 30.f) [inline]

Simply calls `init(rows, columns, size)`

Parameters

<i>rows</i>	the number of rows
<i>columns</i>	the number of columns
<i>size</i>	the size of one hex (2 * radius)

3.3.3 Member Function Documentation

3.3.3.1 void HexMap::draw (GameState & *gameState*) const

adds all drawables to the gameState

Parameters

<i>gameState</i>	the game state
------------------	----------------

3.3.3.2 void HexMap::draw (sf::RenderWindow & *window*) const

draws the map directly to the window

Parameters

<i>window</i>	the render window
---------------	-------------------

3.3.3.3 sf::Color HexMap::getColor (int *row*, int *column*) const

Gets the color of a selected hex.

Parameters

<i>row</i>	the row of a hex
<i>column</i>	the column of a hex

Returns

The color of the hex

3.3.3.4 pair< int, int > HexMap::getHex (sf::Vector2f *position*) const

Returns pair of (row, column) coords of the hex which contains the position.

Parameters

<i>position</i>	the position where hex is looked for
-----------------	--------------------------------------

Returns

The row and column of the hex or (-1, -1) if position is outside the map

3.3.3.5 `vector< pair< int, int > > HexMap::getNeighbours (int row, int column) const`

Returns position of each neighbour of the hex on (row, column)

Parameters

<i>row</i>	the row of the hex
<i>column</i>	the column of the hex

Returns

A vector of hex' neighbours' positions

3.3.3.6 `sf::Vector2f HexMap::getPosition (int row, int column) const`

Returns position of the center of a selected hex.

Parameters

<i>row</i>	the row of a hex
<i>column</i>	the column of a hex

Returns

The position of the center of the specified hex

3.3.3.7 `void HexMap::init (int rows, int columns, float size = 30.f)`

Initializes the map. Initially, all hexes are white.

Parameters

<i>rows</i>	the number of rows
<i>columns</i>	the number of columns
<i>size</i>	the size of one hex (2 * radius)

3.3.3.8 `void HexMap::setColor (int row, int column, sf::Color color)`

Sets the color of a selected hex.

Parameters

<i>row</i>	the row of a hex
<i>column</i>	the column of a hex
<i>color</i>	the new color

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

- [HexMap.h](#)
- [HexMap.cpp](#)

3.4 Info Class Reference

Usable class for printing real-time info.

```
#include <Info.h>
```

Public Member Functions

- void [addFunction](#) (string label, function< string()> function)
Adds function returning string to the info.
- template<class T >
void [addItem](#) (string label, T &variable)
Adds a reference to the variable.
- void [removeItem](#) (string label)
Removes all infos with specified label.
- bool [hasItem](#) (string label)
Checks if there exists any info with specified label.
- void [clear](#) ()
Removes all items.
- void [draw](#) (sf::RenderWindow &window)
Draws info to the window.
- void [log](#) (ostream &o)
Saves info for later replays.

3.4.1 Detailed Description

Usable class for printing real-time info.

3.4.2 Member Function Documentation**3.4.2.1 void Info::addFunction (string label, function< string()> function) [inline]**

Adds function returning string to the info.

Parameters

<i>label</i>	the label
<i>function</i>	the function that should take 0 arguments and return a string

3.4.2.2 `template<class T > void Info::addItem (string label, T & variable)` `[inline]`

Adds a reference to the variable.

Parameters

<i>label</i>	the label
<i>variable</i>	a reference to the variable. It must be possible to call <code>to_string(variable)</code> . The variable should exist until the end of the game.

3.4.2.3 `void Info::draw (sf::RenderWindow & window)`

Draws info to the window.

Parameters

<i>window</i>	the render window
---------------	-------------------

3.4.2.4 `bool Info::hasItem (string label)`

Checks if there exists any info with specified label.

Parameters

<i>label</i>	the label
--------------	-----------

Returns

3.4.2.5 `void Info::log (ostream & o)`

Saves info for later replays.

Parameters

<i>o</i>	the stream to save to
----------	-----------------------

3.4.2.6 void Info::removeItem (string *label*)

Removes all infos with specified label.

Parameters

<i>label</i>	the label
--------------	-----------

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

- [Info.h](#)
- Info.cpp

3.5 MultiStream Class Reference

Class used to combining multiple streams into one.

```
#include <Log.h>
```

Public Member Functions

- [MultiStream](#) ()=default
Default constructor.
- [MultiStream](#) (initializer_list< ostream * > list)
Initialization of multistream with a list of streams.
- void [addStream](#) (ostream &str)
Adds a stream.
- void [clear](#) ()
Removes all streams.
- template<class T >
[MultiStream](#) & [operator<<](#) (const T &obj)
writes obj into all streams (unfortunately, manipulators like endl don't work) the object to write
- void [flush](#) ()
Flushes all streams.

3.5.1 Detailed Description

Class used to combining multiple streams into one.

3.5.2 Constructor & Destructor Documentation

3.5.2.1 MultiStream::MultiStream (initializer_list< ostream * > *list*) [inline]

Initialization of multistream with a list of streams.

Parameters

<i>a</i>	list of ofstream pointers
----------	---------------------------

3.5.3 Member Function Documentation

3.5.3.1 void MultiStream::addStream (ostream & *str*) [inline]

Adds a stream.

Parameters

<i>the</i>	stream to add
------------	---------------

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

- [Log.h](#)

Chapter 4

File Documentation

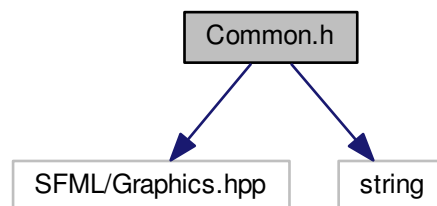
4.1 Common.h File Reference

Contains some useful functions and commonFont.

```
#include <SFML/Graphics.hpp>
```

```
#include <string>
```

Include dependency graph for Common.h:



Functions

- double [length](#) (const double &x, const double &y)
Returns length of a vector (x, y)
- double [lengthSquare](#) (const double &x, const double &y)
Returns length² of a vector (x, y)
- double [dist](#) (const double &x1, const double &y1, const double &x2, const double &y2)
Returns euclidean distance between vectors (x1, y1) and (x2, y2)
- double [distSquare](#) (const double &x1, const double &y1, const double &x2, const double &y2)
Returns square of euclidean distance between vectors (x1, y1) and (x2, y2)
- sf::CircleShape [makeCircle](#) (float radius, float x, float y, sf::Color fillColor)
A factory function for creating circles.
- sf::RectangleShape [makeRectangle](#) (float width, float height, float x, float y, sf::Color fillColor)
A factory function for creating rectangles.
- sf::RectangleShape [makeLine](#) (float x1, float y1, float x2, float y2, float thickness, sf::Color fillColor)
A factory function for creating lines.
- sf::Text [makeText](#) (string caption, int fontSize, float x, float y, sf::Color color)
A factory function for creating texts.

Variables

- `sf::Font` [commonFont](#)

You should use only this font in your program. It loads font from `FONT_PATH` defined in [Config.h](#).

4.1.1 Detailed Description

Contains some useful functions and `commonFont`.

4.1.2 Function Documentation

4.1.2.1 `sf::CircleShape` `makeCircle` (`float radius`, `float x`, `float y`, `sf::Color fillColor`)

A factory function for creating circles.

Parameters

<i>radius</i>	the radius of the circle
<i>x</i>	the x-coordinate of the circle's center
<i>y</i>	the y-coordinate of the circle's center
<i>fillColor</i>	the color of the circle

Returns

an `sf::CircleShape` with center at (x, y)

4.1.2.2 `sf::RectangleShape` `makeLine` (`float x1`, `float y1`, `float x2`, `float y2`, `float thickness`, `sf::Color fillColor`)

A factory function for creating lines.

Parameters

<i>x1</i>	the x-coordinate of first end of line
<i>y1</i>	the y-coordinate of first end of line
<i>x2</i>	the x-coordinate of second end of line
<i>y2</i>	the y-coordinate of second end of line
<i>thickness</i>	the thickness of the line
<i>fillColor</i>	the color of the line

Returns

an `sf::RectangleShape` which is a line segment with specified thickness between (x1, y1) and (x2, y2)

4.1.2.3 `sf::RectangleShape` `makeRectangle` (`float width`, `float height`, `float x`, `float y`, `sf::Color fillColor`)

A factory function for creating rectangles.

Parameters

<i>width</i>	the width of the rect
<i>height</i>	the height of the rect
<i>x</i>	the x-coordinate of the rect's center
<i>y</i>	the y-coordinate of the rect's center
<i>fillColor</i>	the color of the rect

Returns

an `sf::RectangleShape` with center at (x, y)

4.1.2.4 `sf::Text makeText (string caption, int fontSize, float x, float y, sf::Color color)`

A factory function for creating texts.

Parameters

<i>caption</i>	the text to be displayed
<i>fontSize</i>	the size of characters
<i>x</i>	the x-coordinate of the center of text
<i>y</i>	the y-coordinate of the center of text
<i>color</i>	the color of text

Returns

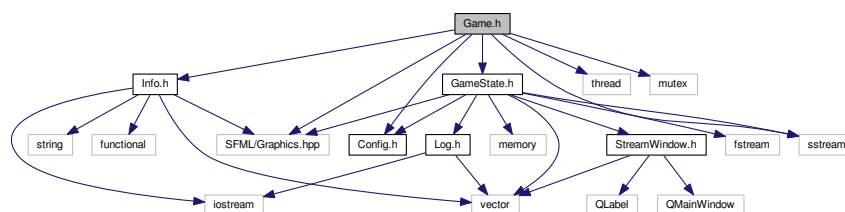
an `sf::Text` with center at (x, y)

4.2 Game.h File Reference

Contains the main `Game` class.

```
#include <SFML/Graphics.hpp>
#include "Info.h"
#include "Config.h"
#include "GameState.h"
#include <thread>
#include <mutex>
#include <sstream>
```

Include dependency graph for Game.h:



Classes

- class [Game](#)

The main [Game](#) class. You should make a derived class from it.

4.2.1 Detailed Description

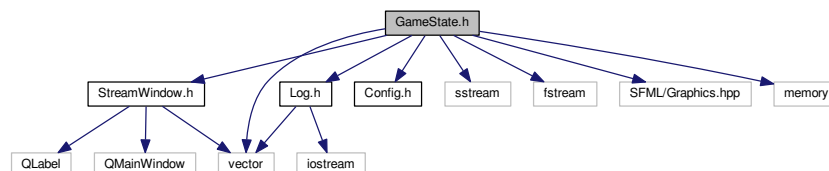
Contains the main [Game](#) class.

4.3 GameState.h File Reference

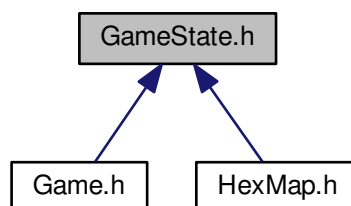
Contains the [GameState](#) class.

```
#include "StreamWindow.h"
#include "Log.h"
#include "Config.h"
#include <sstream>
#include <fstream>
#include <vector>
#include <SFML/Graphics.hpp>
#include <memory>
```

Include dependency graph for GameState.h:



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



Classes

- class [GameState](#)

This class contains the state of the game. It draws it, shows the output window and saves game for further viewing.

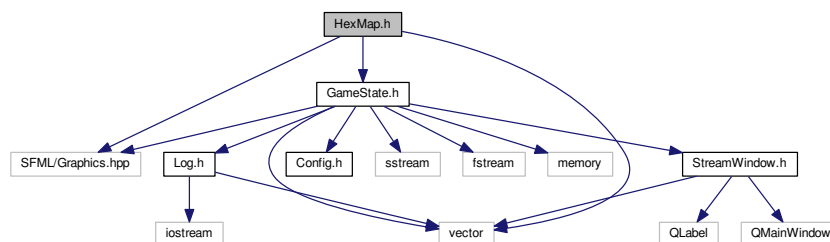
4.3.1 Detailed Description

Contains the [GameState](#) class.

4.4 HexMap.h File Reference

Contains the [HexMap](#) class.

```
#include <vector>
#include <SFML/Graphics.hpp>
#include "GameState.h"
Include dependency graph for HexMap.h:
```



Classes

- class [HexMap](#)

Useful class for using hex maps.

4.4.1 Detailed Description

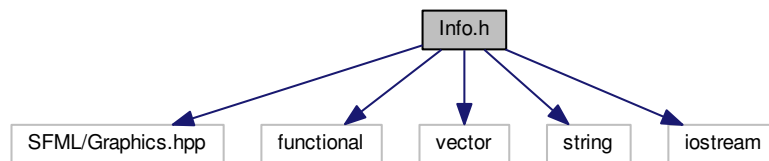
Contains the [HexMap](#) class.

4.5 Info.h File Reference

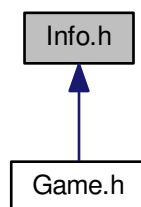
Contains the [Info](#) class.

```
#include <SFML/Graphics.hpp>
#include <functional>
#include <vector>
#include <string>
#include <iostream>
```

Include dependency graph for Info.h:



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



Classes

- class [Info](#)

Usable class for printing real-time info.

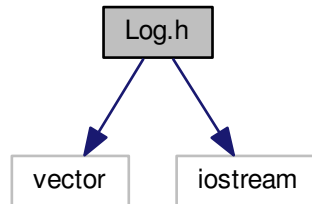
4.5.1 Detailed Description

Contains the [Info](#) class.

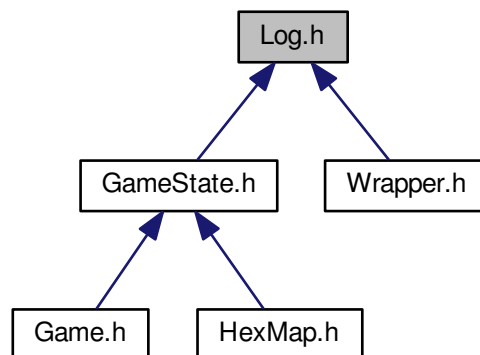
4.6 Log.h File Reference

Contains the [MultiStream](#) class.

```
#include <vector>
#include <iostream>
Include dependency graph for Log.h:
```



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



Classes

- class [MultiStream](#)
Class used to combining multiple streams into one.

Functions

- void [open_log](#) (ofstream &of, string dir)
Reopens the stream into a new file in a specified directory. If the directory doesn't exist it is created. The name of the file is HH_MM_SS.log where HH, MM, SS is current hour, minute and second.

Variables

- [MultiStream mout](#)
MultiStream which initially contains only cout.
- [MultiStream merr](#)
MultiStream which initially contains only cerr.

4.6.1 Detailed Description

Contains the [MultiStream](#) class.

4.6.2 Function Documentation

4.6.2.1 void open_log (ofstream & of, string dir)

Reopens the stream into a new file in a specified directory. If the directory doesn't exist it is created. The name of the file is HH_MM_SS.log where HH, MM, SS is current hour, minute and second.

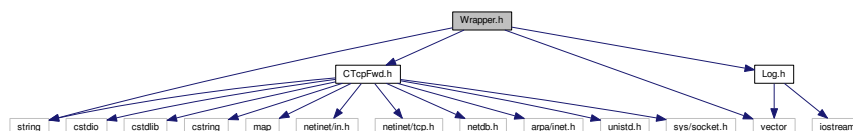
Parameters

<i>of</i>	the stream to reopen
<i>dir</i>	the name of the directory

4.7 Wrapper.h File Reference

Contains a few useful functions for communication with server.

```
#include "CTcpFwd.h"
#include "Log.h"
#include <string>
#include <vector>
Include dependency graph for Wrapper.h:
```



Functions

- void [connect](#) (string host, int port, string login, string password)
Initializes TCP connection. After calling this function, stdout sends output to the server and stdin reads input from it.
- bool [sendMessage](#) (string message=string())

Writes message followed by newline to the stdout, and then checks if the response is OK or handles errors.

- void `wait` ()

Sends WAIT message and reads 2 OKs.

- int `turnsLeft` ()

Calls `URNS_LEFT_COMMAND` (defined in [Config.h](#)) and reads the response.

4.7.1 Detailed Description

Contains a few useful functions for communication with server.

4.7.2 Function Documentation

4.7.2.1 void `connect` (string *host*, int *port*, string *login*, string *password*)

Initializes TCP connection. After calling this function, stdout sends output to the server and stdin reads input from it.

Parameters

<i>host</i>	the name of the host
<i>port</i>	the port number (integer)
<i>login</i>	team login
<i>password</i>	team password

4.7.2.2 bool `sendMessage` (string *message* = `string()`)

Writes message followed by newline to the stdout, and then checks if the response is OK or handles errors.

Parameters

<i>message</i>	the message to write
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Returns

true if server returned OK, false otherwise

4.7.2.3 int `turnsLeft` ()

Calls `URNS_LEFT_COMMAND` (defined in [Config.h](#)) and reads the response.

Returns

the number of turns left

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