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Contents

1	Clas	s Index			1
	1.1	Class I	List		1
2	File	Index			3
	2.1	File Lis	st		3
3	Clas	s Docu	mentation	1	5
	3.1	Circle	Class Refe	erence	5
		3.1.1	Construc	ctor & Destructor Documentation	5
			3.1.1.1	Circle() [1/3]	5
			3.1.1.2	Circle() [2/3]	6
			3.1.1.3	Circle() [3/3]	6
		3.1.2	Member	Function Documentation	6
			3.1.2.1	display()	6
			3.1.2.2	getColor()	7
			3.1.2.3	getRadius()	7
			3.1.2.4	getSurface()	7
			3.1.2.5	setColor() [1/2]	7
			3.1.2.6	setColor() [2/2]	8
			3.1.2.7	setRadius()	8
	3.2	Color (Class Refe	erence	9
		3.2.1	Member	Enumeration Documentation	9
			3.2.1.1	Code	9
		322	Construc	etor & Destructor Documentation	q

ii CONTENTS

		3.2.2.1	Color()	10
	3.2.3	Member	Function Documentation	10
		3.2.3.1	display()	10
		3.2.3.2	getColor()	10
		3.2.3.3	getName()	11
		3.2.3.4	setColor()	11
3.3	Rectar	ngle Class	Reference	11
	3.3.1	Construc	ctor & Destructor Documentation	12
		3.3.1.1	Rectangle() [1/3]	12
		3.3.1.2	Rectangle() [2/3]	12
		3.3.1.3	Rectangle() [3/3]	13
	3.3.2	Member	Function Documentation	13
		3.3.2.1	display()	13
		3.3.2.2	getColor()	13
		3.3.2.3	getHeight()	14
		3.3.2.4	getSurface()	14
		3.3.2.5	getWidth()	14
		3.3.2.6	setColor() [1/2]	14
		3.3.2.7	setColor() [2/2]	15
		3.3.2.8	setHeight()	15
		3.3.2.9	setWidth()	15
3.4	Square	e Class Re	eference	16
	3.4.1	Construc	ctor & Destructor Documentation	16
		3.4.1.1	Square() [1/3]	16
		3.4.1.2	Square() [2/3]	17
		3.4.1.3	Square() [3/3]	17
	3.4.2	Member	Function Documentation	17
		3.4.2.1	display()	17
		3.4.2.2	getColor()	18
		3.4.2.3	getSide()	18

CONTENTS

			3.4.2.4 getSurface()	18
			3.4.2.5 setColor() [1/2]	18
			3.4.2.6 setColor() [2/2]	19
			3.4.2.7 setSide()	19
	3.5	Triangl	e Class Reference	20
		3.5.1	Constructor & Destructor Documentation	20
			3.5.1.1 Triangle() [1/3]	20
			3.5.1.2 Triangle() [2/3]	20
			3.5.1.3 Triangle() [3/3]	21
		3.5.2	Member Function Documentation	21
			3.5.2.1 display()	21
			3.5.2.2 getBase()	21
			3.5.2.3 getColor()	22
			3.5.2.4 getHeight()	22
			3.5.2.5 getSurface()	22
			3.5.2.6 setBase()	22
			3.5.2.7 setColor() [1/2]	23
			3.5.2.8 setColor() [2/2]	23
			3.5.2.9 setHeight()	23
4	File	Docum	entation	25
	4.1		r File Reference	25
		4.1.1	Function Documentation	26
			4.1.1.1 operator<<()	26
	4.2	color.h	File Reference	26
		4.2.1	Function Documentation	27
			4.2.1.1 operator<<()	27
			4.2.1.2 toString()	28
	4.3	rectano	gle.h File Reference	28
		4.3.1	Function Documentation	29
			4.3.1.1 operator<<()	29
	4.4	square	.h File Reference	29
		4.4.1	Function Documentation	30
				30
			4.4.1.1 operator<<()	OU
	4.5	triangle	4.4.1.1 operator<<()	30
	4.5	triangle		
	4.5	_	e.h File Reference	30
	4.5	_	e.h File Reference	30 31

Chapter 1

Class Index

1.1 Class List

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

Circle										 																5
Color										 													 			Ş
Rectan	gle)								 													 			11
Square										 													 			16
Triangle	,									 							 						 			20

2 Class Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

circle.h			 											 											25
color.h														 											26
rectangl	e.h	1												 											28
square.h	١.													 											29
triangle.	h		 					 						 						 					30

File Index

Chapter 3

Class Documentation

3.1 Circle Class Reference

```
#include <circle.h>
```

Public Member Functions

• Circle (double radius=0, const Color &color=Color())

Create a circle with color and radius, a radius or with nothing.

• Circle (const Color &color)

Create a circle with an object color.

Circle (Color::Code code)

Create a circle with a color by a color code (enum)

• Circle & setRadius (double radius)

Change the radius of the circle.

• Circle & setColor (const Color &color)

Change the color of the circle with an object color.

Circle & setColor (Color::Code color)

Change the color of the circle with a color code (enum)

• double getRadius () const

Get the radius of the circle.

• double getSurface () const

Calculate the surface of the circle.

Color::Code getColor () const

Get the color of the circle.

std::ostream & display (std::ostream &stream=std::cout) const
 Display a circle.

3.1.1 Constructor & Destructor Documentation

Create a circle with color and radius, a radius or with nothing.

Parameters

radius	default value 0
color	default value Color()

Create a circle with an object color.

Parameters

color

Create a circle with a color by a color code (enum)

Parameters

code

3.1.2 Member Function Documentation

3.1.2.1 display()

Display a circle.

Parameters

stream	default valut cout

3.1 Circle Class Reference 7

Returns

The stream

3.1.2.2 getColor()

```
Color::Code Circle::getColor ( ) const
```

Get the color of the circle.

Returns

The color of the circle

3.1.2.3 getRadius()

```
double Circle::getRadius ( ) const
```

Get the radius of the circle.

Returns

The radius of the circle

3.1.2.4 getSurface()

```
double Circle::getSurface ( ) const
```

Calculate the surface of the circle.

Returns

The surface of the circle

3.1.2.5 setColor() [1/2]

Change the color of the circle with an object color.

Parameters
color
Returns
The circle
3.1.2.6 setColor() [2/2]
Circle& Circle::setColor (
Color::Code color)
Change the color of the circle with a color code (enum)
Parameters
color
Returns
The circle
3.1.2.7 setRadius()
3.1.2.7 Sethaulus()
Circle& Circle::setRadius (
double radius)
Change the radius of the circle.
Parameters
radius
Returns

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

• circle.h

The circle

3.2 Color Class Reference 9

3.2 Color Class Reference

```
#include <color.h>
```

Public Types

enum Code {
 Code::WHITE, Code::BLUE, Code::GREEN, Code::RED,
 Code::BLACK }

Public Member Functions

• Color (Code code=Code::WHITE)

Create a color with a color by code (enum) or with nothing.

• Code getColor () const

Get the color.

• Color & setColor (Code code)

Change the color.

• std::string getName () const

Get the name of the color.

std::ostream & display (std::ostream &stream=std::cout) const
 Display a color.

3.2.1 Member Enumeration Documentation

3.2.1.1 Code

```
enum Color::Code [strong]
```

Enumerator

WHITE	
BLUE	
GREEN	
RED	
BLACK	

3.2.2 Constructor & Destructor Documentation

```
3.2.2.1 Color()
```

Create a color with a color by code (enum) or with nothing.

Parameters

```
code default value WHITE
```

3.2.3 Member Function Documentation

```
3.2.3.1 display()
```

Display a color.

Parameters

stream

Returns

The srteam

3.2.3.2 getColor()

```
Code Color::getColor ( ) const
```

Get the color.

Returns

The code of the color (enum)

3.2.3.3 getName()

```
std::string Color::getName ( ) const
```

Get the name of the color.

Returns

The name of the color

3.2.3.4 setColor()

Change the color.

Parameters

code

Returns

The color

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

· color.h

3.3 Rectangle Class Reference

```
#include <rectangle.h>
```

Public Member Functions

• Rectangle (double width=0, double height=0, const Color &color=Color())

Create a rectangle with a width, a height and a color, a width and a height, a width or with nothing.

• Rectangle (const Color &color)

Create a rectangle with an object color.

• Rectangle (Color::Code code)

Create a rectangle with a color code (enum)

• double getHeight () const

Get the height of the rectangle.

• double getWidth () const

Get the width of the rectangle.

• double getSurface () const

Calculate the surface of the rectangle.

· Color::Code getColor () const

Get the color of the rectangle.

Rectangle & setHeight (double height)

Change the height of the rectangle.

• Rectangle & setWidth (double width)

Change the width of the rectangle.

• Rectangle & setColor (const Color &color)

Change the color of the rectangle with an object color.

• Rectangle & setColor (Color::Code color)

Change the color of the rectangle with a color code (enum)

• std::ostream & display (std::ostream &stream=std::cout) const

Display a rectangle.

3.3.1 Constructor & Destructor Documentation

```
3.3.1.1 Rectangle() [1/3]
```

Create a rectangle with a width, a height and a color, a width and a height, a width or with nothing.

Parameters

width	default value 0
height	default value 0
color	default value Color()

3.3.1.2 Rectangle() [2/3]

Create a rectangle with an object color.

Parameters

color

3.3.2 Member Function Documentation

3.3.2.1 display()

Display a rectangle.

Parameters

stream

Returns

The stream

3.3.2.2 getColor()

```
Color::Code Rectangle::getColor ( ) const
```

Get the color of the rectangle.

Returns

The color of the rectangle

```
3.3.2.3 getHeight()
```

```
double Rectangle::getHeight ( ) const
```

Get the height of the rectangle.

Returns

The height of the rectangle

3.3.2.4 getSurface()

```
double Rectangle::getSurface ( ) const
```

Calculate the surface of the rectangle.

Returns

The surface f the rectangle

3.3.2.5 getWidth()

```
double Rectangle::getWidth ( ) const
```

Get the width of the rectangle.

Returns

The width of the rectangle

```
3.3.2.6 setColor() [1/2]
```

Change the color of the rectangle with an object color.

Parameters

color

Returns

The rectangle

Change the color of the rectangle with a color code (enum)

Parameters

color

Returns

The rectangle

3.3.2.8 setHeight()

Change the height of the rectangle.

Parameters

height

Returns

The rectangle

3.3.2.9 setWidth()

Change the width of the rectangle.

Parameters

base

Returns

The rectangle

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

· rectangle.h

3.4 Square Class Reference

```
#include <square.h>
```

Public Member Functions

• Square (double side=0, const Color &color=Color())

Create a square with a side and a color, a side or with nothing.

• Square (const Color &color)

Create a square with an object color.

• Square (Color::Code code)

Create a square with a color code (enum)

• double getSide () const

Get the side of the square.

• double getSurface () const

Calculate the surface of the square.

Color::Code getColor () const

Get the color of the square.

Square & setSide (double side)

Change the side of the square.

Square & setColor (const Color &color)

Change the color of the square with an object color.

Square & setColor (Color::Code color)

Change the color of the square with a color code (enum)

std::ostream & display (std::ostream &stream=std::cout) const

Display a square.

3.4.1 Constructor & Destructor Documentation

Create a square with a side and a color, a side or with nothing.

Parameters

side	defalut value 0
color	default value Color()

Create a square with an object color.

Parameters

color

Create a square with a color code (enum)

Parameters

code

3.4.2 Member Function Documentation

3.4.2.1 display()

Display a square.

Parameters

stream

```
Returns
```

The stream

```
3.4.2.2 getColor()
```

```
Color::Code Square::getColor ( ) const
```

Get the color of the square.

Returns

The color of the square

3.4.2.3 getSide()

```
double Square::getSide ( ) const
```

Get the side of the square.

Returns

The side of the square

3.4.2.4 getSurface()

```
double Square::getSurface ( ) const
```

Calculate the surface of the square.

Returns

The surface of the square

```
3.4.2.5 setColor() [1/2]
```

Change the color of the square with an object color.

Parameters
color
Returns
The square
me square
3.4.2.6 setColor() [2/2]
Square& Square::setColor (
Color::Code color)
Change the color of the square with a color code (enum)
Change the color of the square with a color code (endin)
Parameters
color
Returns
The square
me square
3.4.2.7 setSide()
Square& Square::setSide (
double side)
Change the side of the square.
Parameters
side
Returns
The square

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

• square.h

3.5 Triangle Class Reference

```
#include <triangle.h>
```

Public Member Functions

- Triangle (double base=0, double height=0, const Color &color=Color())
- Triangle (const Color &color)
- Triangle (Color::Code code)
- double getHeight () const
- double getBase () const
- double getSurface () const
- Color::Code getColor () const

Get the color of the triangle.

- Triangle & setHeight (double height)
- Triangle & setBase (double base)
- Triangle & setColor (const Color &color)
- Triangle & setColor (Color::Code color)
- std::ostream & display (std::ostream &stream=std::cout) const

3.5.1 Constructor & Destructor Documentation

Create a triangle with a base, a height and a color, a base and a height, a base or with nothing

Parameters

base	defalut value 0
height	default value 0
color	default value Color()

Create a triangle with an object color

Parameters

color

```
3.5.1.3 Triangle() [3/3]
Triangle::Triangle (
```

Create a triangle with a color code (enum)

Color::Code code)

Parameters

code

3.5.2 Member Function Documentation

3.5.2.1 display()

Display a triangle

Parameters

stream

Returns

The stream

3.5.2.2 getBase()

```
double Triangle::getBase ( ) const
```

Get the base of the triangle

Returns

The base of the triangle

```
3.5.2.3 getColor()
```

```
Color::Code Triangle::getColor ( ) const
```

Get the color of the triangle.

Returns

The color of the triangle

3.5.2.4 getHeight()

```
double Triangle::getHeight ( ) const
```

Get the height of the triangle

Returns

The height of the triangle

3.5.2.5 getSurface()

```
double Triangle::getSurface ( ) const
```

Calculat the surface of the triangle

Returns

The surface of the triangle

3.5.2.6 setBase()

Change the base of the triangle

Parameters

base

Returns

The triangle

Change the color of the triangle with an object color

Parameters

color

Returns

The triangle

Change the color of the triangle with a color code (enum)

Parameters

color

Returns

The triangle

3.5.2.9 setHeight()

Change the height of the triangle

Da			

height

Returns

The triangle

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

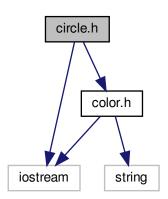
• triangle.h

Chapter 4

File Documentation

4.1 circle.h File Reference

#include <iostream>
#include "color.h"
Include dependency graph for circle.h:



Classes

· class Circle

Functions

• std::ostream & operator<< (std::ostream &stream, const Circle &circle)

Overload of the output stream to display a circle.

26 File Documentation

4.1.1 Function Documentation

4.1.1.1 operator << ()

Overload of the output stream to display a circle.

Parameters

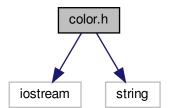
stream	
circle	

Returns

The stream

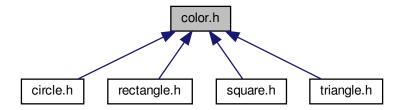
4.2 color.h File Reference

```
#include <iostream>
#include <string>
Include dependency graph for color.h:
```



4.2 color.h File Reference 27

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



Classes

• class Color

Functions

• std::string toString (const Color::Code &code)

Convert the code color in a string.

• std::ostream & operator<< (std::ostream &stream, const Color &color)

Overload of the output sream to display a color.

4.2.1 Function Documentation

4.2.1.1 operator << ()

Overload of the output sream to display a color.

Parameters

stream	
color	

Returns

The stream

28 File Documentation

4.2.1.2 toString()

Convert the code color in a string.

Parameters

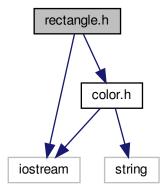
code

Returns

The color in string

4.3 rectangle.h File Reference

```
#include <iostream>
#include "color.h"
Include dependency graph for rectangle.h:
```



Classes

• class Rectangle

Functions

• std::ostream & operator<< (std::ostream &stream, const Rectangle &rectangle)

Overload of the output stream to display a rectangle.

4.3.1 Function Documentation

4.3.1.1 operator << ()

Overload of the output stream to display a rectangle.

Parameters

stream	
rectangle	

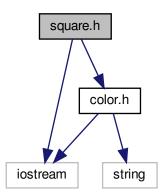
Returns

The stream

4.4 square.h File Reference

```
#include <iostream>
#include "color.h"
```

Include dependency graph for square.h:



Classes

• class Square

30 File Documentation

Functions

• std::ostream & operator<< (std::ostream &stream, const Square &square)

Overload of the output stream to display a square.

4.4.1 Function Documentation

4.4.1.1 operator << ()

Overload of the output stream to display a square.

Parameters

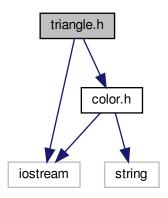
stream	
square	

Returns

The stream

4.5 triangle.h File Reference

```
#include <iostream>
#include "color.h"
Include dependency graph for triangle.h:
```



Classes

• class Triangle

Functions

• std::ostream & operator<< (std::ostream &stream, const Triangle &triangle)

4.5.1 Function Documentation

4.5.1.1 operator << ()

Overload of the output stream to display a triangle

Parameters

stream triangle

Returns

The stream

32 File Documentation

Index

	_
Circle, 5	Square, 18
Circle, 5, 6	Triangle, <mark>22</mark>
display, 6	getWidth
getColor, 7	Rectangle, 14
getRadius, 7	
getSurface, 7	operator<<
setColor, 7, 8	circle.h, 26
setRadius, 8	color.h, 27
circle.h, 25	rectangle.h, 29
	square.h, 30
operator<<, 26	•
Code	triangle.h, 31
Color, 9	Destande 44
Color, 9	Rectangle, 11
Code, 9	display, 13
Color, 9	getColor, 13
display, 10	getHeight, 13
getColor, 10	getSurface, 14
getName, 10	getWidth, 14
setColor, 11	Rectangle, 12
color.h, 26	setColor, 14, 15
	setHeight, 15
operator<<, 27	setWidth, 15
toString, 27	
-Paraller	rectangle.h, 28
display	operator<<, 29
Circle, 6	antDana
Color, 10	setBase
Rectangle, 13	Triangle, 22
	Triangle, 22 setColor
Rectangle, 13	Triangle, 22 setColor Circle, 7, 8
Rectangle, 13 Square, 17	Triangle, 22 setColor
Rectangle, 13 Square, 17	Triangle, 22 setColor Circle, 7, 8
Rectangle, 13 Square, 17 Triangle, 21	Triangle, 22 setColor Circle, 7, 8 Color, 11
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10 getRadius	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16 display, 17
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10 getRadius Circle, 7 getSide	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16 display, 17 getColor, 18 getSide, 18
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10 getRadius Circle, 7 getSide Square, 18	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16 display, 17 getColor, 18 getSide, 18 getSurface, 18
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10 getRadius Circle, 7 getSide Square, 18 getSurface	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16 display, 17 getColor, 18 getSide, 18 getSurface, 18 setColor, 18, 19
Rectangle, 13 Square, 17 Triangle, 21 getBase Triangle, 21 getColor Circle, 7 Color, 10 Rectangle, 13 Square, 18 Triangle, 21 getHeight Rectangle, 13 Triangle, 22 getName Color, 10 getRadius Circle, 7 getSide Square, 18	Triangle, 22 setColor Circle, 7, 8 Color, 11 Rectangle, 14, 15 Square, 18, 19 Triangle, 23 setHeight Rectangle, 15 Triangle, 23 setRadius Circle, 8 setSide Square, 19 setWidth Rectangle, 15 Square, 16 display, 17 getColor, 18 getSide, 18 getSurface, 18

34 INDEX

```
square.h, 29
    operator<<, 30
toString
    color.h, 27
Triangle, 20
    display, 21
    getBase, 21
    getColor, 21
    getHeight, 22
    getSurface, 22
    setBase, 22
    setColor, 23
    setHeight, 23
    Triangle, 20, 21
triangle.h, 30
    operator <<, 31
```