SHAPES

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Chapter 1

Todo List

Member Shapes.Triangle.GetPerimeter ()

Add to function body (perimeter for triangle).

Chapter 2

Bug List

Member Shapes.Program.GetValue (string s)

Decimal separator dependsof culture context. Need to change for both ("." and ",").

Chapter 3

Namespace Index

3.1 Packages

Here are the packages with brief descriptions (if available):

Shapes 13

Chapter 4

Hierarchical Index

4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

- Shapes.IShape . . . 19
  - Shapes.Circle . . . 15
  - Shapes.Rectangle . . . 31
  - Shapes.Triangle . . . 35
- Shapes.Logger . . . 21
- Shapes.Program . . . 24

Chapter 5

Class Index

5.1 Class List

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

Shapes.Circle
: Description of circle object. 15

Shapes.IShape
: Interface for shapes classes. 19

Shapes.Logger
: Error logger. 21

Shapes.Program 24

Shapes.Rectangle
: Description of rectangle objects. 31

Shapes.Triangle
: Description of triangle object. 35

Chapter 6

File Index

6.1 File List

Here is a list of all files with brief descriptions:

C:/Users/mmich/source/repos/Shapes/Shapes/Program.cs 41
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41
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C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Triangle.cs 42

Chapter 7

Namespace Documentation

7.1 Shapes Namespace Reference

Classes

- class Circle

  Description of circle object.
- interface IShape

  Interface for shapes classes.
- class Logger

  Error logger.
- class Program
- class Rectangle

  Description of rectangle objects.
- class Triangle

  Description of triangle object.

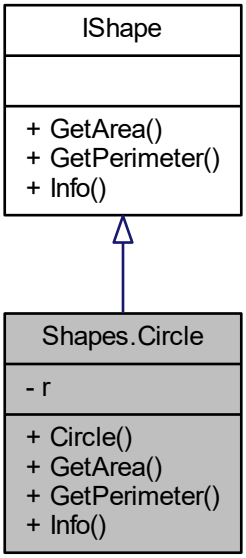
Chapter 8

Class Documentation

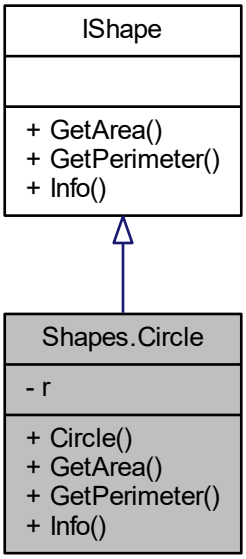
8.1 Shapes.Circle Class Reference

Description of circle object.

Inheritance diagram for Shapes.Circle:



Collaboration diagram for Shapes.Circle:



Public Member Functions

- Circle (double r)

  Define circle (constructor).
- double GetArea ()

  Calculation of circle area.
- double GetPerimeter ()

  Calculation of circle perimeter.
- string Info ()

  Info about cirlce.

Private Attributes

- readonly double r

8.1.1 Detailed Description

Description of circle object.

Definition at line 8 of file Circle.cs.

8.1.2 Constructor & Destructor Documentation

8.1.2.1 Circle()

```
Shapes.Circle.Circle (
            double r )
```

Define circle (constructor).

Parameters

r	radius

Definition at line 16 of file Circle.cs.

8.1.3 Member Function Documentation

8.1.3.1 GetArea()

```
double Shapes.Circle.GetArea ( )
```

Calculation of circle area.

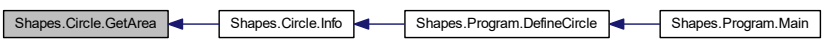
Returns

Circle area.

Implements Shapes.IShape.

Definition at line 25 of file Circle.cs.

Here is the caller graph for this function:



8.1.3.2 GetPerimeter()

```
double Shapes.Circle.GetPerimeter ( )
```

Calculation of circle perimeter.

Returns

Circle perimeter.

Implements Shapes.IShape.

Definition at line 34 of file Circle.cs.

Here is the caller graph for this function:

8.1.3.3 Info()

```
string Shapes.Circle.Info ( )
```

Info about cirlce.

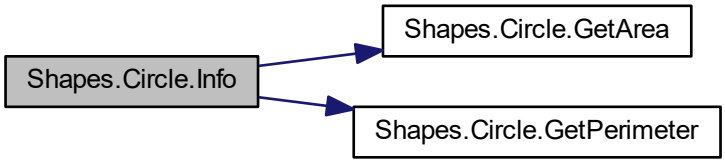
Returns

Info about circle.

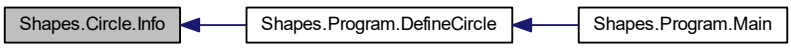
Implements Shapes.IShape.

Definition at line 43 of file Circle.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.1.4 Member Data Documentation

8.1.4.1 r

```
readonly double Shapes.Circle.r  [private]
```

Definition at line 10 of file Circle.cs.

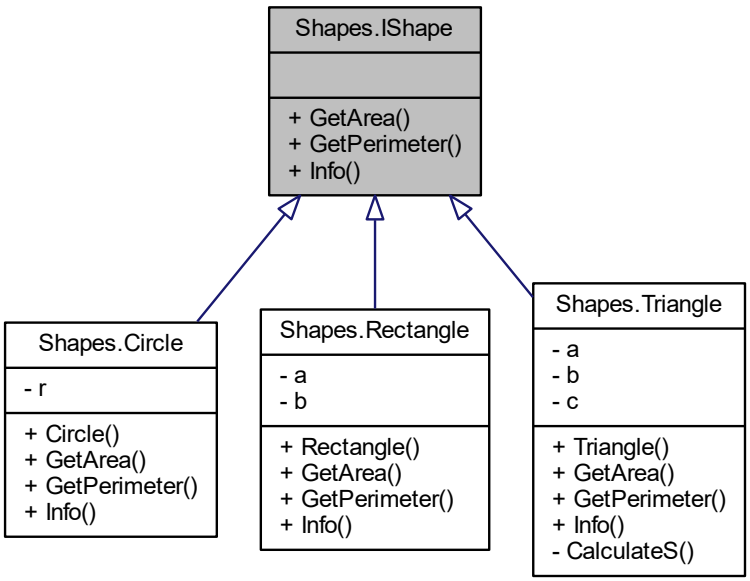
The documentation for this class was generated from the following file:

- C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Circle.cs

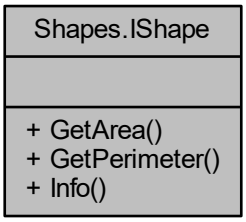
8.2 Shapes.IShape Interface Reference

Interface for shapes classes.

Inheritance diagram for Shapes.IShape:



Collaboration diagram for Shapes.IShape:



Public Member Functions

- double GetArea ()
- double GetPerimeter ()
- string Info ()

8.2.1 Detailed Description

Interface for shapes classes.

Definition at line 6 of file IShape.cs.

8.2.2 Member Function Documentation

8.2.2.1 GetArea()

```
double Shapes.IShape.GetArea ( )
```

Implemented in Shapes.Triangle, Shapes.Rectangle, and Shapes.Circle.

8.2.2.2 GetPerimeter()

```
double Shapes.IShape.GetPerimeter ( )
```

Implemented in Shapes.Triangle, Shapes.Rectangle, and Shapes.Circle.

8.2.2.3 Info()

```
string Shapes.IShape.Info ( )
```

Implemented in Shapes.Triangle, Shapes.Rectangle, and Shapes.Circle.

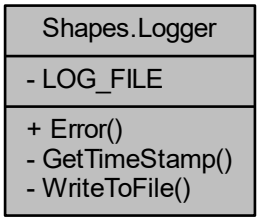
The documentation for this interface was generated from the following file:

- C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/IShape.cs

8.3 Shapes.Logger Class Reference

Error logger.

Collaboration diagram for Shapes.Logger:



Static Public Member Functions

- static void Error (string s)

  Bulid error message to write to file.

Static Private Member Functions

- static string GetTimeStamp ()

  Get actual date nd time and build time stamp for logger
- static void WriteToFile (string s)

  Append logger text to file.

Private Attributes

- const string LOG_FILE = "log.txt"

8.3.1 Detailed Description

Error logger.

Definition at line 10 of file Logger.cs.

8.3.2 Member Function Documentation

8.3.2.1 Error()

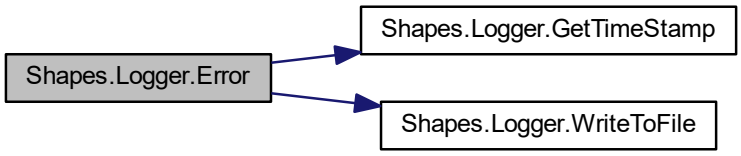
```
static void Shapes.Logger.Error (
            string s )  [static]
```

Bulid error message to write to file.

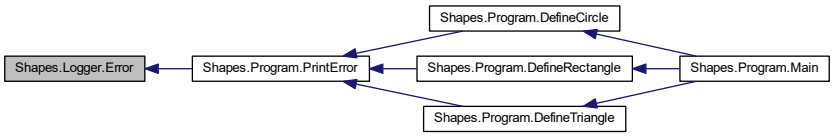
Returns

Definition at line 37 of file Logger.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.3.2.2 GetTimeStamp()

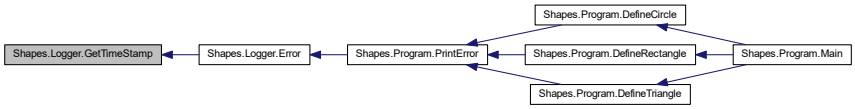
```
static string Shapes.Logger.GetTimeStamp ( )  [static], [private]
```

Get actual date nd time and build time stamp for logger

Returns

Definition at line 18 of file Logger.cs.

Here is the caller graph for this function:



8.3.2.3 WriteToFile()

```
static void Shapes.Logger.WriteToFile (
            string s )  [static], [private]
```

Append logger text to file.

Returns

Definition at line 28 of file Logger.cs.

Here is the caller graph for this function:

8.3.3 Member Data Documentation

8.3.3.1 LOG_FILE

```
const string Shapes.Logger.LOG_FILE = "log.txt"  [private]
```

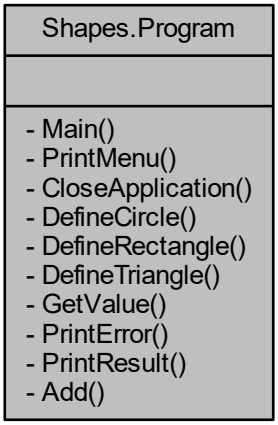
Definition at line 12 of file Logger.cs.

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

- C:/Users/mmich/source/repos/Shapes/Shapes/Logger/Logger.cs

8.4 Shapes.Program Class Reference

Collaboration diagram for Shapes.Program:



Static Private Member Functions

- static void Main (string[ ] args)

  Main function.
- static void PrintMenu ()

  Clear screen and show main menu.
- static void CloseApplication ()

  Terminate application.
- static void DefineCircle ()

  Calculations for circle.
- static void DefineRectangle ()

  Calculations for triangle.
- static void DefineTriangle ()

  Calculations for triangle.
- static double GetValue (string s)

Get number from console.

- static void PrintError (string s)

  Print info about error (red color) and write info in logger file.

- static void PrintResult (string s)

  Print result (yellow color).

- static int Add (int a, int b)

  Dodawanie dwoch liczb

8.4.1 Detailed Description

Definition at line 9 of file Program.cs.

8.4.2 Member Function Documentation

8.4.2.1 Add()

```
static int Shapes.Program.Add (
            int a,
            int b )  [static], [private]
```

Dodawanie dwoch liczb

Parameters

a	parametr 1
b	parametr 2

Returns

suma a+b

Definition at line 210 of file Program.cs.

Here is the caller graph for this function:

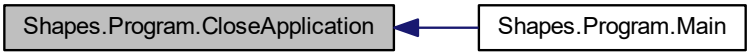
8.4.2.2 CloseApplication()

```
static void Shapes.Program.CloseApplication ( )  [static], [private]
```

Terminate application.

Definition at line 66 of file Program.cs.

Here is the caller graph for this function:



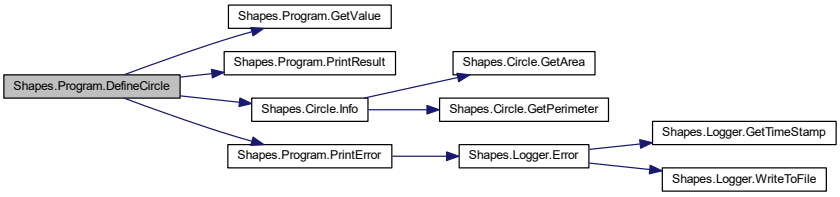
8.4.2.3 DefineCircle()

```
static void Shapes.Program.DefineCircle ( )  [static], [private]
```

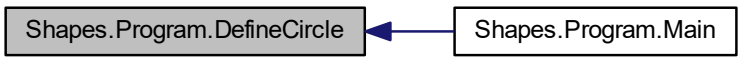
Calculations for circle.

Definition at line 76 of file Program.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



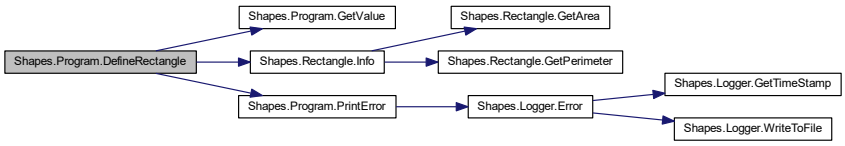
8.4.2.4 DefineRectangle()

```
static void Shapes.Program.DefineRectangle ( )  [static], [private]
```

Calculations for triangle.

Definition at line 104 of file Program.cs.

Here is the call graph for this function:



Here is the caller graph for this function:

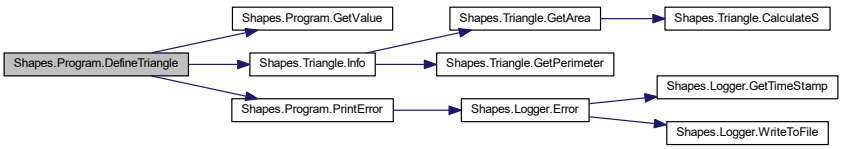
8.4.2.5 DefineTriangle()

```
static void Shapes.Program.DefineTriangle ( )  [static], [private]
```

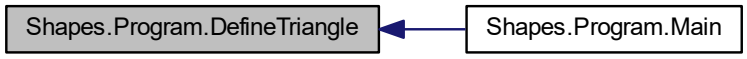
Calculations for triangle.

Definition at line 132 of file Program.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.4.2.6 GetValue()

```
static double Shapes.Program.GetValue (
            string s )  [static], [private]
```

Get number from console.

Parameters

s	Number (text format).

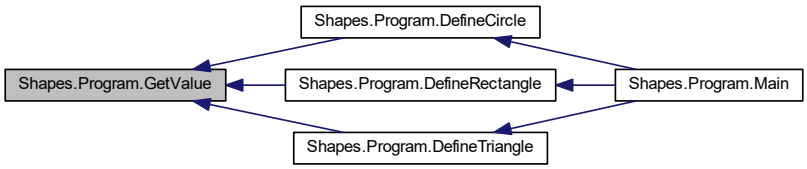
Returns

Number as double.

Bug Decimal separator dependsof culture context. Need to change for both ("." and ",").

Definition at line 168 of file Program.cs.

Here is the caller graph for this function:



8.4.2.7 Main()

```
static void Shapes.Program.Main (
            string [] args )  [static], [private]
```

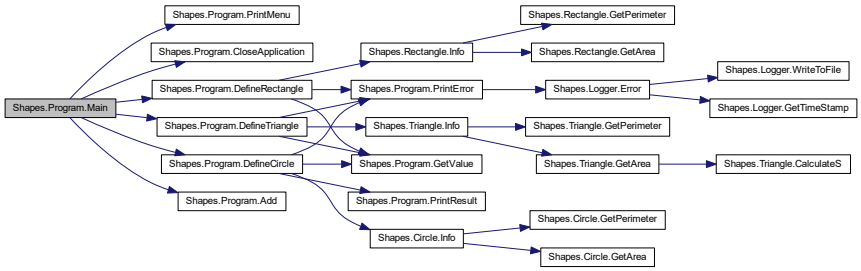
Main function.

Parameters

args	

Definition at line 15 of file Program.cs.

Here is the call graph for this function:



8.4.2.8 PrintError()

```
static void Shapes.Program.PrintError (
            string s )  [static], [private]
```

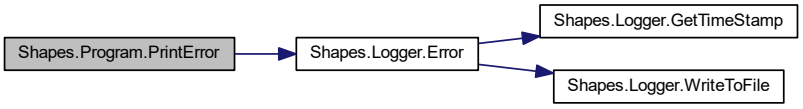
Print info about error (red color) and write info in logger file.

Parameters

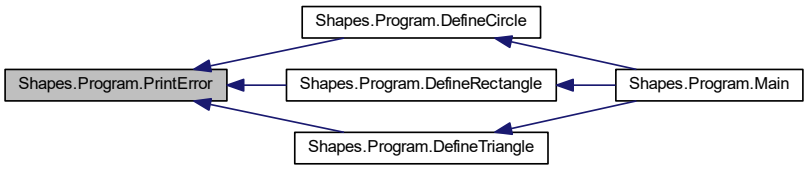
s	Text to show (error description).

Definition at line 182 of file Program.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



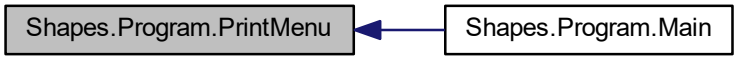
8.4.2.9 PrintMenu()

```
static void Shapes.Program.PrintMenu ( )  [static], [private]
```

Clear screen and show main menu.

Definition at line 49 of file Program.cs.

Here is the caller graph for this function:



8.4.2.10 PrintResult()

```
static void Shapes.Program.PrintResult (
            string s )  [static], [private]
```

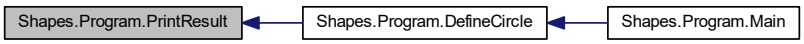
Print result (yellow color).

Parameters

s	Text to show.

Definition at line 196 of file Program.cs.

Here is the caller graph for this function:



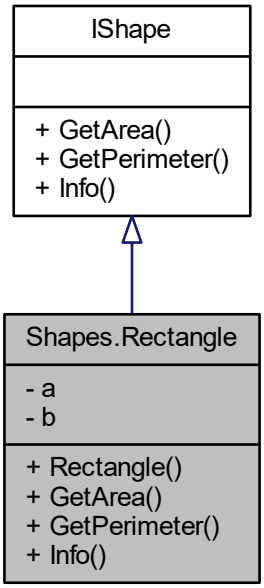
The documentation for this class was generated from the following file:

- C:/Users/mmich/source/repos/Shapes/Shapes/Program.cs

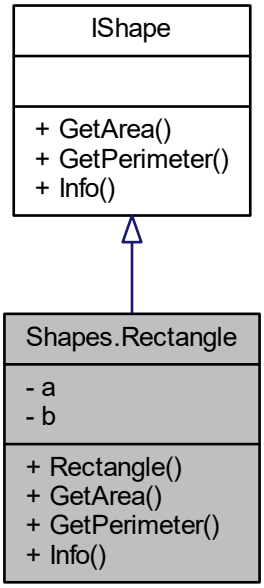
8.5 Shapes.Rectangle Class Reference

Description of rectangle objects.

Inheritance diagram for Shapes.Rectangle:



Collaboration diagram for Shapes.Rectangle:



Public Member Functions

- Rectangle (double a, double b)

  Define rectangle (constructor).
- double GetArea ()

  Calculation of rectangle area.
- double GetPerimeter ()

  Calculation of rectangle perimeter.
- string Info ()

  Info about rectangle.

Private Attributes

- readonly double a
- readonly double b

8.5.1 Detailed Description

Description of rectangle objects.

Definition at line 6 of file Rectangle.cs.

8.5.2 Constructor & Destructor Documentation

8.5.2.1 Rectangle()

```
Shapes.Rectangle.Rectangle (
            double a,
            double b )
```

Define rectangle (constructor).

Parameters

a	side a
b	side b

Definition at line 16 of file Rectangle.cs.

8.5.3 Member Function Documentation

8.5.3.1 GetArea()

```
double Shapes.Rectangle.GetArea ( )
```

Calculation of rectangle area.

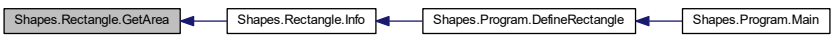
Returns

Rectangle area

Implements Shapes.IShape.

Definition at line 26 of file Rectangle.cs.

Here is the caller graph for this function:



8.5.3.2 GetPerimeter()

```
double Shapes.Rectangle.GetPerimeter ( )
```

Calculation of rectangle perimeter.

Returns

Rectangle perimeter.

Implements Shapes.IShape.

Definition at line 35 of file Rectangle.cs.

Here is the caller graph for this function:

8.5.3.3 Info()

```
string Shapes.Rectangle.Info ( )
```

Info about rectangle.

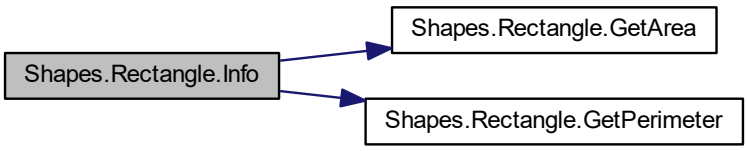
Returns

Info about rectangle.

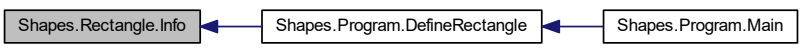
Implements Shapes.IShape.

Definition at line 44 of file Rectangle.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.5.4 Member Data Documentation

8.5.4.1 a

```
readonly double Shapes.Rectangle.a  [private]
```

Definition at line 8 of file Rectangle.cs.

8.5.4.2 b

```
readonly double Shapes.Rectangle.b  [private]
```

Definition at line 9 of file Rectangle.cs.

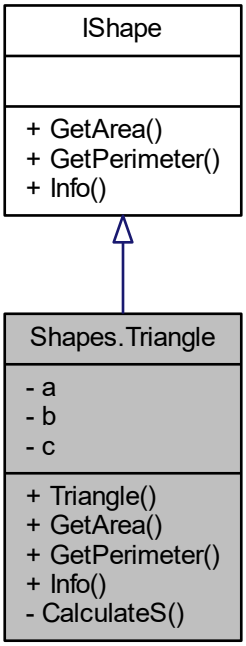
The documentation for this class was generated from the following file:

- C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Rectangle.cs

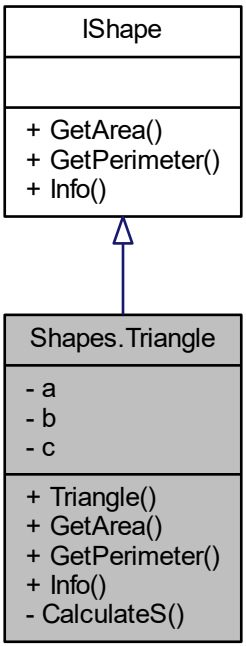
8.6 Shapes.Triangle Class Reference

Description of triangle object.

Inheritance diagram for Shapes.Triangle:



Collaboration diagram for Shapes.Triangle:



Public Member Functions

- Triangle (double a, double b, double c)

  Define rectangle (constructor).
- double GetArea ()

  Calculation of triangle area.
- double GetPerimeter ()

  Calculation of triangle perimeter.
- string Info ()

  Info about triangle.

Private Member Functions

- double CalculateS ()

  Calculation S value (Heron formula).

Private Attributes

- readonly double a
- readonly double b
- readonly double c

8.6.1 Detailed Description

Description of triangle object.

Definition at line 8 of file Triangle.cs.

8.6.2 Constructor & Destructor Documentation

8.6.2.1 Triangle()

```
Shapes.Triangle.Triangle (
            double a,
            double b,
            double c )
```

Define rectangle (constructor).

Parameters

a	side a
b	side b
c	side c

Definition at line 20 of file Triangle.cs.

8.6.3 Member Function Documentation

8.6.3.1 CalculateS()

```
double Shapes.Triangle.CalculateS ( )  [private]
```

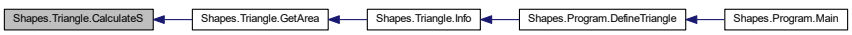
Calculation S value (Heron formula).

Returns

p (Heron formula)

Definition at line 31 of file Triangle.cs.

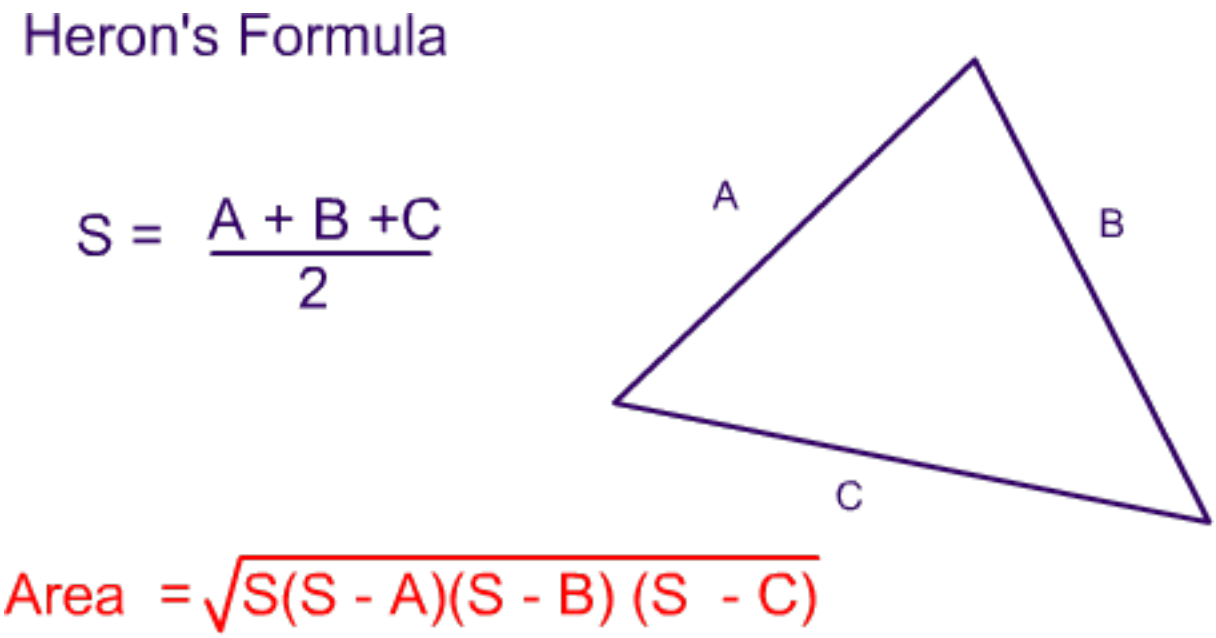
Here is the caller graph for this function:



8.6.3.2 GetArea()

```
double Shapes.Triangle.GetArea ( )
```

Calculation of triangle area.



Returns

Triangle area.

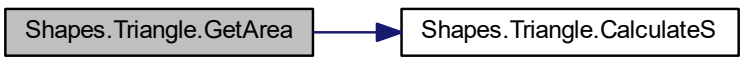
Exceptions

ArgumentException	Creating a triangle is not possible with defined a, b, c.

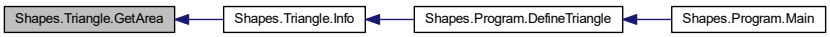
Implements Shapes.IShape.

Definition at line 43 of file Triangle.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.3.3 GetPerimeter()

```
double Shapes.Triangle.GetPerimeter ( )
```

Calculation of triangle perimeter.

Returns

Todo Add to function body (perimeter for triangle).

Implements Shapes.IShape.

Definition at line 62 of file Triangle.cs.

Here is the caller graph for this function:

8.6.3.4 Info()

```
string Shapes.Triangle.Info ( )
```

Info about triangle.

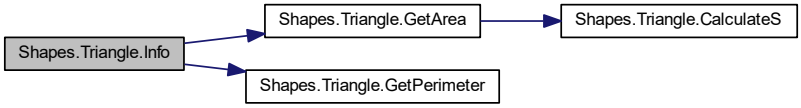
Returns

Info about triangle.

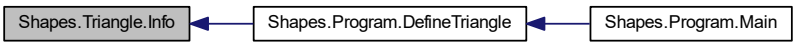
Implements Shapes.IShape.

Definition at line 73 of file Triangle.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.4 Member Data Documentation

8.6.4.1 a

```
readonly double Shapes.Triangle.a  [private]
```

Definition at line 10 of file Triangle.cs.

8.6.4.2 b

```
readonly double Shapes.Triangle.b  [private]
```

Definition at line 11 of file Triangle.cs.

8.6.4.3 c

```
readonly double Shapes.Triangle.c  [private]
```

Definition at line 12 of file Triangle.cs.

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

- C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Triangle.cs

Chapter 9

File Documentation

9.1 C:/Users/mmich/source/repos/Shapes/Shapes/Logger/Logger.cs File Reference

Classes

- class Shapes.Logger

  Error logger.

Namespaces

- namespace Shapes

9.2 C:/Users/mmich/source/repos/Shapes/Shapes/obj/Debug/TemporaryGeneratedFile_036C0B5B-1481-4323-8D20-8F5ADCB23D92.cs File Reference

9.3 C:/Users/mmich/source/repos/Shapes/Shapes/obj/Debug/TemporaryGeneratedFile_5937a670-0e60-4077-877b-f7221da3dda1.cs File Reference

9.4 C:/Users/mmich/source/repos/Shapes/Shapes/obj/Debug/TemporaryGeneratedFile_E7A71F73-0F8D-4B9B-B56E-8E70B10BC5D3.cs File Reference

9.5 C:/Users/mmich/source/repos/Shapes/Shapes/Program.cs File Reference

Classes

- class Shapes.Program

Namespaces

- namespace Shapes

9.6 C:/Users/mmich/source/repos/Shapes/Shapes/Properties/AssemblyInfo.cs File Reference

9.7 C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Circle.cs File Reference

Classes

- class Shapes.Circle

  Description of circle object.

Namespaces

- namespace Shapes

9.8 C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/IShape.cs File Reference

Classes

- interface Shapes.IShape

  Interface for shapes classes.

Namespaces

- namespace Shapes

9.9 C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Rectangle.cs File Reference

Classes

- class Shapes.Rectangle

  Description of rectangle objects.

Namespaces

- namespace Shapes

9.10 C:/Users/mmich/source/repos/Shapes/Shapes/Shapes/Triangle.cs File Reference

Classes

- class Shapes.Triangle

  Description of triangle object.

Namespaces

- namespace Shapes

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