SWJTU-Leeds Joint School (Chengdu)

Circle

Application Programming Interface

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Data Structures

Here are the data structures with brief descriptions:

Data Structure Documentation

Circle Class Reference

Class for calculating the area of a circle.
```
#include <Circle.h>
```

Public Member Functions

- void set_radius (float radius)
  Sets the radius.
- float get_area ()
  Gets the circle area.

Detailed Description

Class for calculating the area of a circle.

Circle class

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```cpp
#include <iostream>
// include the class header file in main
#include "Circle.h"

int main() {
  std::cout << "Enter circle radius (in metres): ";
  float radius;
  std::cin >> radius;
  // create a circle object and use the public methods
  Circle circle;
  circle.set_radius(radius);
  float area = circle.get_area();
  std::cout << "The circle has an area of " << area << " m^2.\n";
  return 0;
}
```

Member Function Documentation

float Circle::get_area ()

Gets the circle area.

Returns:
   the area of the circle in metres squared

void Circle::set_radius (float *radius*)

Sets the radius.

Parameters:

radius	Radius of the circle in metres

The documentation for this class was generated from the following files:
- Circle.h
- Circle.cpp

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