ProtoMath

Generated by Doxygen 1.9.7

15

1	Namespace Index	1
	1.1 Namespace List	1
2	Class Index	3
_	2.1 Class List	3
	Z.1 OldSS List	3
3	File Index	5
	3.1 File List	5
4	Namespace Documentation	7
	4.1 pm Namespace Reference	7
	4.1.1 Detailed Description	7
5	Class Documentation	9
	5.1 pm::Vector2i Class Reference	9
	5.1.1 Detailed Description	9
	5.1.2 Constructor & Destructor Documentation	9
	5.1.2.1 Vector2i()	9
	5.1.3 Member Function Documentation	10
	5.1.3.1 getX()	10
	5.1.3.2 getY()	10
	5.1.3.3 print()	10
	5.1.3.4 setX()	11
	5.1.3.5 setY()	11
6	File Documentation	13
	6.1 Enum.hpp	13
	6.2 include/vector2i.hpp File Reference	13
	6.2.1 Detailed Description	13
	6.3 vector2i.hpp	14

Index

Namespace Index

1.1 Namespace List

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

pm

Namespace pm is the n	nain r	nam	es	pa	се	for	r tł	ιе	Ρ	ro	tol	Иα	th	lib	ra	ry	. It	С	on	ta	ins	s a	all	th	е	cla	ass	ses	s a	nc	ł
functions of the library																															

7

2 Namespace Index

Class Index

2.1 Class List

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

pm::Vector2i	
Vector2i is a class that represents a 2D vector with integer components. It provides essential	
features for 2D vector manipulation	9

4 Class Index

File Index

3.1 File List

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

include/Enum.hpp	13
include/vector2i.hpp	
The Vector2i class	13

6 File Index

Namespace Documentation

4.1 pm Namespace Reference

Namespace pm is the main namespace for the ProtoMath library. It contains all the classes and functions of the library.

Classes

· class Vector2i

Vector2i is a class that represents a 2D vector with integer components. It provides essential features for 2D vector manipulation.

4.1.1 Detailed Description

Namespace pm is the main namespace for the ProtoMath library. It contains all the classes and functions of the library.

Class Documentation

5.1 pm::Vector2i Class Reference

Vector2i is a class that represents a 2D vector with integer components. It provides essential features for 2D vector manipulation.

```
#include <vector2i.hpp>
```

Public Member Functions

· Vector2i ()

The empty constructor creates a new Vector2i with both components set to 0.

Vector2i (int x, int y)

A constructor that creates a new Vector2i with the given components.

int getX () const

X coordinate getter.

• int getY () const

Y coordinate getter.

void setX (int x)

X coordinate setter.

void setY (int y)

Y coordinate setter.

void print (pmEnum mode=PM_PRINT_DEFAULT) const

Print method that outputs the vector to the console in different formats.

5.1.1 Detailed Description

Vector2i is a class that represents a 2D vector with integer components. It provides essential features for 2D vector manipulation.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Vector2i()

A constructor that creates a new Vector2i with the given components.

10 Class Documentation

Parameters

X	- x coordinate
у	- y coordinate

5.1.3 Member Function Documentation

5.1.3.1 getX()

```
int pm::Vector2i::getX ( ) const
```

X coordinate getter.

Returns

X coordinate

5.1.3.2 getY()

```
int pm::Vector2i::getY ( ) const
```

Y coordinate getter.

Returns

Y coordinate

5.1.3.3 print()

Print method that outputs the vector to the console in different formats.

Parameters

mode	- The print mode that will be used to format the output. Default is PM_PRINT_DEFAULT. Possible
	values are:

PM_PRINT_DEFAULT - Prints the vector in the format " $(x, y)\n$ ".

PM_PRINT_SIMPLEST - Prints the vector in the format "x y n".

 $\label{eq:pm_print_polar} PM_PRINT_POLAR - Prints the vector in the format "(r, angle) \n".$

5.1.3.4 setX()

X coordinate setter.

Parameters

```
x - Value that will be set as X coordinate
```

5.1.3.5 setY()

Y coordinate setter.

Parameters

```
y - Value that will be set as Y coordinate
```

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

- include/vector2i.hpp
- src/vector2i.cpp

12 Class Documentation

File Documentation

6.1 Enum.hpp

6.2 include/vector2i.hpp File Reference

The Vector2i class.

```
#include <iostream>
#include "Enum.hpp"
```

Classes

class pm::Vector2i

Vector2i is a class that represents a 2D vector with integer components. It provides essential features for 2D vector manipulation.

Namespaces

namespace pm

Namespace pm is the main namespace for the ProtoMath library. It contains all the classes and functions of the library.

6.2.1 Detailed Description

The Vector2i class.

This file contains the Vector2i class. It is a class that represents a 2D vector with integer components. The implementation of all member methods is done in

See also

Vector2i.cpp.

14 File Documentation

6.3 vector2i.hpp

Go to the documentation of this file.

```
00001
00009 #ifndef VECTOR2I_HPP
00010 #define VECTOR2I_HPP
00011
00012 #include <iostream>
00013
00014 #include "Enum.hpp"
00015
00020 namespace pm {
00021
00026
           class Vector2i {
00027
               public:
00031
00032
                     Vector2i();
                     Vector2i(int x, int y);
00038
00039
00044
                     int getX() const;
00045
00050
00051
00056
                     int getY() const;
                     void setX(int x);
00057
00062
                     void setY(int y);
00062
00063
00079
00080
00081
                     void print(pmEnum mode = PM_PRINT_DEFAULT) const;
                private:
   int x;
00085
00086
00090
                     int y;
00091
00092 }
00094 #endif // VECTOR2I_HPP
```

Index

```
getX
    pm::Vector2i, 10
getY
    pm::Vector2i, 10
include/Enum.hpp, 13
include/vector2i.hpp, 13, 14
pm, 7
pm::Vector2i, 9
    getX, 10
    getY, 10
    print, 10
    setX, 10
    setY, 11
    Vector2i, 9
print
    pm::Vector2i, 10
setX
    pm::Vector2i, 10
setY
    pm::Vector2i, 11
Vector2i
    pm::Vector2i, 9
```