

Package myMath

Class Functions_GUI

java.lang.Object

myMath.Functions_GUI

All Implemented Interfaces:

java.lang.Iterable<function>, java.util.Collection<function>, functions

public class **Functions_GUI**

extends java.lang.Object

implements functions

Field Summary

Fields

Modifier and Type	Field	Description
static java.awt.Color[]	Colors	

Constructor Summary

Constructors

Constructor	Description
Functions_GUI()	

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description	
boolean	add (function e)		
boolean	addAll (java.util.Collection<? extends function> c)		
void	clear()		
boolean	contains (java.lang.Object o)		
boolean	containsAll (java.util.Collection<?> c)		

void	drawFunctions (int width, int height, Range rx, Range ry, int resolution)	draw a gui representation of the functio
void	drawFunctions (java.lang.String json_file)	draw a function out of an json file after deserializeing it
function	get (int i)	
void	initFromFile (java.lang.String file)	init a a Functions_gui out of txt file whrere whr function represented as a string separated by a line
boolean	isEmpty ()	
java.util.Iterator< function >	iterator ()	
static void	main (java.lang.String[] args)	
boolean	remove (java.lang.Object o)	
boolean	removeAll (java.util.Collection<?> c)	
boolean	retainAll (java.util.Collection<?> c)	
void	saveToFile (java.lang.String file)	asve all the current functions to file where the functions are represented as a string
int	size ()	
java.lang.Object[]	toArray ()	
<T> T[]	toArray (T[] a)	
Methods inherited from class java.lang.Object		
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait		
Methods inherited from interface java.util.Collection		
equals, hashCode, parallelStream, removeIf, spliterator, stream, toArray		
Methods inherited from interface java.lang.Iterable		
forEach		

Field Detail
Colors
public static java.awt.Color[] Colors

Constructor Detail

Functions_GUI

```
public Functions_GUI()
```

Method Detail

size

```
public int size()
```

Specified by:

size in interface `java.util.Collection<function>`

isEmpty

```
public boolean isEmpty()
```

Specified by:

isEmpty in interface `java.util.Collection<function>`

contains

```
public boolean contains (java.lang.Object o)
```

Specified by:

contains in interface `java.util.Collection<function>`

iterator

```
public java.util.Iterator<function> iterator()
```

Specified by:

iterator in interface `java.util.Collection<function>`

Specified by:

iterator in interface `java.lang.Iterable<function>`

toArray

```
public java.lang.Object[] toArray()
```

Specified by:

toArray in interface `java.util.Collection<function>`

toArray

```
public <T> T[] toArray (T[] a)
```

Specified by:

toArray in interface java.util.Collection<function>

add

```
public boolean add (function e)
```

Specified by:

add in interface java.util.Collection<function>

remove

```
public boolean remove (java.lang.Object o)
```

Specified by:

remove in interface java.util.Collection<function>

containsAll

```
public boolean containsAll (java.util.Collection<?> c)
```

Specified by:

containsAll in interface java.util.Collection<function>

addAll

```
public boolean addAll (java.util.Collection<? extends function> c)
```

Specified by:

addAll in interface java.util.Collection<function>

removeAll

```
public boolean removeAll (java.util.Collection<?> c)
```

Specified by:

removeAll in interface java.util.Collection<function>

retainAll

```
public boolean retainAll (java.util.Collection<?> c)
```

Specified by:

retainAll in interface java.util.Collection<function>

clear

```
public void clear()
```

Specified by:

clear in interface `java.util.Collection<function>`

initFromFile

```
public void initFromFile (java.lang.String file) throws java.io.IOException
```

init a a Functions_gui out of txt file whrere whr function represented as a string separated by a line

Specified by:

initFromFile in interface `functions`

Parameters:

file - the file directory on the pc

Throws:

`java.io.IOException` - if the file does not exists of unreadable (wrong format)

saveToFile

```
public void saveToFile (java.lang.String file) throws java.io.IOException
```

asve all the current functions to file where the functions are represented as a astring

Specified by:

saveToFile in interface `functions`

Parameters:

file - for the output

Throws:

`java.io.IOException` - if the file is not writable

drawFunctions

```
public void drawFunctions (int width, int height, Range rx, Range ry, int resolution)
```

draw a gui representation of the functio

Specified by:

drawFunctions in interface `functions`

Parameters:

width - the width of the window

height - - the height of the window

rx - - the range of x axis

ry - - the of y axis

resolution - the number of points that we draw on the function between rx.getmin and rx.gexmax

drawFunctions

```
public void drawFunctions (java.lang.String json_file)
```

draw a function out of an json file after deserializeing it

Specified by:

`drawFunctions` in interface `functions`

Parameters:

`json_file` -- the file with all the parameters for the GUI window. Note: is the file id not readable or in wrong format should use default values.

get

```
public function get (int i)
```

main

```
public static void main (java.lang.String[] args) throws java.io.IOException
```

Throws:

`java.io.IOException`

PACKAGE **CLASS** USE TREE DEPRECATED INDEX HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD