Glasir

1.0

Generated by Doxygen 1.8.9.1

Thu May 28 2015 18:49:09

Contents

1	Nam	espace	Index			1
	1.1	Packag	ges		 	1
2	Hier	archica	l Index			3
	2.1	Class	Hierarchy	·	 	3
3	Clas	s Index	(5
	3.1	Class	List		 	5
4	Nam	espace	Docume	entation		7
	4.1	Packag	ge Glasir		 	7
5	Clas	s Docu	mentatio	n		9
	5.1	Glasir.	ADToolins	stance Class Reference	 	9
		5.1.1	Construc	ctor & Destructor Documentation	 	9
			5.1.1.1	ADToolInstance	 	9
	5.2	Glasir.	App Class	s Reference	 	9
		5.2.1	Detailed	Description	 	10
	5.3	Glasir.	BigGlasir	Class Reference	 	10
		5.3.1	Member	r Function Documentation	 	10
			5.3.1.1	launchADToollnstance	 	10
			5.3.1.2	loadTemplate	 	10
			5.3.1.3	saveProject	 	10
	5.4	Glasir.	Filter Clas	ss Reference	 	11
		5.4.1	Construc	ctor & Destructor Documentation	 	11
			5.4.1.1	Filter	 	11
		5.4.2	Member	r Function Documentation	 	12
			5.4.2.1	createResultingFile	 	12
			5.4.2.2	createResultingFile	 	12
			5.4.2.3	Evaluate	 	12
			5.4.2.4	searchAndChange1	 	12
			5.4.2.5	searchAndChange2		12
	5.5	Glacir	FunctionF	Editor Class Reference		13

iv CONTENTS

		5.5.1	Construc	tor & Destructor Documentation	14
			5.5.1.1	FunctionEditor	14
		5.5.2	Member	Function Documentation	14
			5.5.2.1	createResultingFile	14
			5.5.2.2	createResultingFile	14
			5.5.2.3	Evaluate	14
			5.5.2.4	searchAndChange	15
5	5.6	Glasir.	MainWindo	ow Class Reference	16
		5.6.1	Detailed	Description	16
		5.6.2	Construc	tor & Destructor Documentation	17
			5.6.2.1	MainWindow	17
		5.6.3	Member	Function Documentation	17
			5.6.3.1	messageBox	17
			5.6.3.2	OnClosing	17
			5.6.3.3	testDomain1	17
			5.6.3.4	testDomain2	17
			5.6.3.5	testDomainFiltering	17
5	5.7	Glasir.	Module Cla	ass Reference	18
		5.7.1	Member	Function Documentation	18
			5.7.1.1	createResultingFile	18
			5.7.1.2	openFile	18
5	5.8	Glasir.0	Optimizer (Class Reference	18
		5.8.1	Construc	tor & Destructor Documentation	19
			5.8.1.1	Optimizer	19
		5.8.2	Member	Function Documentation	19
			5.8.2.1	createResultingFile	19
			5.8.2.2	createResultingFile	19
5	5.9	Glasir.	ГетрlateLi	ibrary Class Reference	20
5	5.10	Glasir.)	KMLFile Cl	lass Reference	20
		5.10.1	Construc	tor & Destructor Documentation	20
			5.10.1.1	XMLFile	20
			5.10.1.2	XMLFile	21
			5.10.1.3	XMLFile	21
		5.10.2	Member	Function Documentation	21
			5.10.2.1	createResultFile	21
			5.10.2.2	getDomains	21
			5.10.2.3	getXMLCodeFromFile	21
			5.10.2.4	isEmpty	22
Inde	X				23

Namespace Index

1.1	Packages	
-----	----------	--

Here are the packages with brief descriptions (if available):	
Glasir	7

2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

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

ilasir.ADToolInstance	9
pplication	
pplication Glasir.App	
Blasir.BigGlasir	
Glasir.Module	18
Glasir.Filter	11
Glasir.FunctionEditor	13
Glasir.Optimizer	
Glasir.TemplateLibrary	20
Vindow	
Glasir.MainWindow	16
Glasir.XMLFile	20

Hierarchical Index

Class Index

3.1 Class List

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

asir.ADToolInstance	9
asir.App	
Interaction logic for App.xaml	9
asir.BigGlasir	10
asir.Filter	11
asir.FunctionEditor	13
asir.MainWindow	
Interaction logic for MainWindow.xaml	16
asir.Module	18
asir.Optimizer	18
asir.TemplateLibrary	20
asir.XMLFile	20

6 Class Index

Namespace Documentation

4.1 Package Glasir

Classes

- class ADToolInstance
- class App

Interaction logic for App.xaml

- class BigGlasir
- class Filter
- class FunctionEditor
- · class MainWindow

Interaction logic for MainWindow.xaml

- class Module
- class Optimizer
- class TemplateLibrary
- class XMLFile

Names	pace	Docur	ment	ation

Class Documentation

5.1 Glasir.ADToolInstance Class Reference

Public Member Functions

• ADToolInstance (string fileName)

ADToolInstance constructor

Properties

- static ADToolInstance foregroundInstance [get, set]
- Process process [get]
- XMLFile file [get]

5.1.1 Constructor & Destructor Documentation

5.1.1.1 Glasir.ADToolInstance.ADToolInstance (string fileName)

ADToolInstance constructor

Parameters

fileName

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

· ADToolInstance.cs

5.2 Glasir.App Class Reference

Interaction logic for App.xaml

Inheritance diagram for Glasir.App:



5.2.1 Detailed Description

Interaction logic for App.xaml

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

· App.xaml.cs

5.3 Glasir.BigGlasir Class Reference

Public Member Functions

```
    void launchADToolInstance (string fileName)
```

launch an instance of ADTool containing an ADTree

void loadTemplate ()

load a template

void saveProject ()

save a project

Properties

```
• static string AdtoolVersion [get]
```

```
• string projectName [get, set]
```

- Filter Filter [get, set]
- Optimizer Optimizer [get, set]
- FunctionEditor FunctionEditor [get, set]
- System.Collections.Generic.List< ADToolInstance > ADToolInstances [get, set]
- TemplateLibrary templateLibrary [get, set]

5.3.1 Member Function Documentation

5.3.1.1 void Glasir.BigGlasir.launchADToolInstance (string fileName)

launch an instance of ADTool containing an ADTree

Returns

```
5.3.1.2 void Glasir.BigGlasir.loadTemplate ( )
```

load a template

5.3.1.3 void Glasir.BigGlasir.saveProject ()

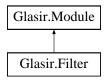
save a project

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

BigGlasir.cs

5.4 Glasir. Filter Class Reference

Inheritance diagram for Glasir. Filter:



Public Member Functions

• Filter (XMLFile f, string domain, String max)

Create a new Filter objetc with the given properties

XMLFile createResultingFile ()

create the resulting tree of the function

• void searchAndChange1 (XElement code, double m)

Cut the given tree from the original tree if it doesn't respect the filter conditions. If the given tree respects the conditions, call recursively the same algorithm on the subtrees of the given tree to make sure that they respect the conditions as-well

• void searchAndChange2 (XElement code, double m)

same that searchAndChange1 method

• override XMLFile createResultingFile (XMLFile file)

create the resulting tree of the function

Static Public Member Functions

• static double Evaluate (string expression)

evaluate the mathematical expression in the string parameter and return the result as a double

Properties

- List< XElement > listDelete [get]
- string **DomainParam** [get]
- XMLFile File [get]
- double Max [get]
- String L1 [get]
- String M1 [get]
- String **H1** [get]
- String **E1** [get]

5.4.1 Constructor & Destructor Documentation

5.4.1.1 Glasir.Filter (XMLFile f, string domain, String max)

Create a new Filter objetc with the given properties

Parameters

12		Class Documentation
	f	
doma		
m	iax	
5.4.2 Member	Fur	nction Documentation
5.4.2.1 XMLFile	Gla	sir.Filter.createResultingFile ()
create the result	ing t	tree of the function
Parameters		
fileNar	me	
xmlCo		
5.4.2.2 override)	XML	.File Glasir.Filter.createResultingFile (XMLFile file) [virtual]
		tura a of the frametica
	ing	tree of the function
Parameters		
fileNar		
xmlCo	ae	
Implements Glas	sir.N	lodule.
5.4.2.3 static dou	ıble (Glasir.Filter.Evaluate (string expression) [static]
evaluate the mat	then	natical expression in the string parameter and return the result as a double
Parameters		
expressi	ion	
Returns		
5.4.2.4 void Glas	ir.Fil	ter.searchAndChange1(XElement <i>code</i> , double <i>m</i>)
ornari voia ondo		ishosalom indonango: (Allomont ocus, double m)
-		from the original tree if it doesn't respect the filter conditions. If the given tree respects the
conditions, call reconditions as-we		rsively the same algorithm on the subtrees of the given tree to make sure that they respect the
Parameters	;	
СО	de	

5.4.2.5 void Glasir. Filter.searchAndChange2 (X
Element $code,\ \mbox{double}\ m$)

same that searchAndChange1 method

Parameters

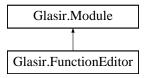
code	
т	

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

· Filter.cs

5.5 Glasir.FunctionEditor Class Reference

Inheritance diagram for Glasir.FunctionEditor:



Public Member Functions

• FunctionEditor (XMLFile f, String name, String fn, string firstP, string secondP, String I1, String m1, String h1, String e1, String I2, String m2, String h2, String e2)

Create a new FunctionEditor object with the given properties

• XMLFile createResultingFile ()

create the resulting tree of the function

void searchAndChange (XElement code, int swittcccchhhhh=0)

Change the valuations of the given tree following the given formula. If the given tree isn't a leaf but a simple node, call recursively the same algorithm on the subtrees of the given tree to search for leafs

• override XMLFile createResultingFile (XMLFile file)

create the resulting tree of the function

Static Public Member Functions

• static double Evaluate (string expression)

Send the resultat of the mathematical operation within the expression

Properties

- String FunctionName [get]
- String Function [get]
- string FirstParam [get]
- string **SecondParam** [get]
- XMLFile File [get]
- String L1 [get]
- String M1 [get]
- String H1 [get]
- String **E1** [get]
- String L2 [get]
- String M2 [get]
- String **H2** [get]
- String **E2** [get]

14	Class Documentation

5.5.1 Constructor & Destructor Documentation

5.5.1.1 Glasir.FunctionEditor.FunctionEditor (XMLFile f, String name, String fn, string firstP, string secondP, String 11, String m1, String h1, String e1, String l2, String m2, String h2, String e2)

Create a new FunctionEditor object with the given properties

Parameters

f	
name	
fn	
firstP	
secondP	
11	
m1	
h1	
e1	
12	
m2	
h2	
e2	

5.5.2 Member Function Documentation

5.5.2.1 XMLFile Glasir.FunctionEditor.createResultingFile ()

create the resulting tree of the function

Parameters

fileName	
xmlCode	

5.5.2.2 override XMLFile Glasir.FunctionEditor.createResultingFile (XMLFile file) [virtual]

create the resulting tree of the function

Parameters

file	
xmlCode	

Implements Glasir. Module.

5.5.2.3 static double Glasir.FunctionEditor.Evaluate (string expression) [static]

Send the resultat of the mathematical operation within the expression

Parameters

expression	

Returns

5.5.2.4 void Glasir.FunctionEditor.searchAndChange (XElement code, int swittcccchhhhh = 0)

Change the valuations of the given tree following the given formula. If the given tree isn't a leaf but a simple node, call recursively the same algorithm on the subtrees of the given tree to search for leafs

Parameters

code	
swittcccchhhhh	

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

· FunctionEditor.cs

5.6 Glasir.MainWindow Class Reference

Interaction logic for MainWindow.xaml

Inheritance diagram for Glasir.MainWindow:



Public Member Functions

· MainWindow ()

constructor

void testDomain1 (object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the second parameter of the FunctionEditor

• void testDomain2 (object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the second parameter of the FunctionEditor

• void testDomainFiltering (object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the filter

Static Public Member Functions

static void messageBox (string message)
 used for showing something

Protected Member Functions

 override void OnClosing (CancelEventArgs e) close project when exitting

Properties

• BigGlasir Glasir [get, set]

5.6.1 Detailed Description

Interaction logic for MainWindow.xaml

5.6.2	Constructor & Destructor Documentation
5.6.2.1	Glasir.MainWindow.MainWindow ()
constr	uctor
5.6.3	Member Function Documentation
5.6.3.1	static void Glasir.MainWindow.messageBox (string message) [static]
used fo	or showing something
Parame	eters
	message
5.6.3.2	<pre>override void Glasir.MainWindow.OnClosing (CancelEventArgs e) [protected]</pre>
close p	project when exitting
Parame	ters
	е
5.6.3.3	void Glasir.MainWindow.testDomain1(object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the second parameter of the FunctionEditor Parameters

sender	
args	

5.6.3.4 void Glasir.MainWindow.testDomain2 (object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the second parameter of the FunctionEditor Parameters

sender	
args	

5.6.3.5 void Glasir.MainWindow.testDomainFiltering (object sender, SelectionChangedEventArgs args)

Print or hide the LMHE boxex is an LMHE paramter is/is not selected for the filter

Parameters

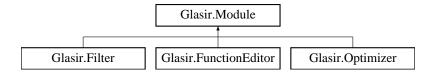
sender	
args	

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

· MainWindow.xaml.cs

5.7 Glasir. Module Class Reference

Inheritance diagram for Glasir. Module:



Public Member Functions

- string openFile (XMLFile file)
 - return xml code of file f
- abstract XMLFile createResultingFile (XMLFile file)

create the resulting tree of the function

5.7.1 Member Function Documentation

5.7.1.1 abstract XMLFile Glasir.Module.createResultingFile (XMLFile file) [pure virtual]

create the resulting tree of the function

Parameters

file	
xmlCode	

Implemented in Glasir.Filter, Glasir.FunctionEditor, and Glasir.Optimizer.

5.7.1.2 string Glasir.Module.openFile (XMLFile file)

return xml code of file f

Parameters

```
f |
```

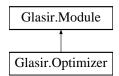
Returns

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

· Module.cs

5.8 Glasir.Optimizer Class Reference

Inheritance diagram for Glasir.Optimizer:



Public Member Functions

• Optimizer (XMLFile f, String item)

Create a new Optimizer object with the given properties

• XMLFile createResultingFile ()

Optimize the given tree by the given parameter and create the resulting XMLFile

• override XMLFile createResultingFile (XMLFile fileName)

create the resulting tree of the function

Properties

- XMLFile File [get]
- String domain [get]
- String max [get]

5.8.1 Constructor & Destructor Documentation

5.8.1.1 Glasir.Optimizer.Optimizer (XMLFile f, String item)

Create a new Optimizer object with the given properties

Parameters

f	
item	

5.8.2 Member Function Documentation

5.8.2.1 XMLFile Glasir.Optimizer.createResultingFile ()

Optimize the given tree by the given parameter and create the resulting XMLFile

Returns

5.8.2.2 override XMLFile Glasir.Optimizer.createResultingFile (XMLFile fileName) [virtual]

create the resulting tree of the function

Parameters

fileName	
xmlCode	

Implements Glasir. Module.

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

Optimizer.cs

5.9 Glasir.TemplateLibrary Class Reference

Public Member Functions

- void addTemplate (XMLFile template)
- void loadTemplate ()
- void browseLibrary ()
- void deleteTemplate ()

Properties

```
• List< XMLFile > templates [get]
```

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

· TemplateLibrary.cs

5.10 Glasir.XMLFile Class Reference

Public Member Functions

• XMLFile (string path)

Create a new XMLFile with the given parameter

• XMLFile (XMLFile file)

Create a new XMLFile with the given parameter

• XMLFile (string xmlfile, XDocument code)

Create a new XMLFile object with the given parameters

• Boolean isEmpty ()

Tell if the XMLTree is empty or not

• string getXMLCodeFromFile ()

Return the XMLCode of the file

• XMLFile createResultFile (int a)

Create the resulting file of a module

List< String > getDomains ()

get the list of the domains used in the XMLFile

Properties

```
• string FileName [get]
```

• XDocument XmlCode [get]

5.10.1 Constructor & Destructor Documentation

```
5.10.1.1 Glasir.XMLFile.XMLFile ( string path )
```

Create a new XMLFile with the given parameter

Parameters
path
5.10.1.2 Glasir.XMLFile (XMLFile file)
Create a new XMLFile with the given parameter
Parameters
file
5.10.1.3 Glasir.XMLFile (string <i>xmlfile,</i> XDocument <i>code</i>)
Create a new XMLFile object with the given parameters
Parameters
xmlfile
code
5.10.2 Member Function Documentation
5.10.2.1 XMLFile Glasir.XMLFile.createResultFile (int a)
Create the resulting file of a module
Parameters
а
Returns
5.10.2.2 List <string> Glasir.XMLFile.getDomains ()</string>
get the list of the domains used in the XMLFile
get the list of the domains used in the AMLFile
Returns
5.10.2.3 string Glasir.XMLFile.getXMLCodeFromFile ()
Return the XMLCode of the file
Returns
HEMINS

5.10.2.4 Boolean Glasir.XMLFile.isEmpty ()

Tell if the XMLTree is empty or not

Returns

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

• XMLFile.cs

Index

ADToolInstance	FunctionEditor, 14
Glasir::ADToolInstance, 9	searchAndChange, 14
Glash is recombination, o	Glasir::MainWindow
createResultFile	MainWindow, 17
Glasir::XMLFile, 21	messageBox, 17
createResultingFile	OnClosing, 17
Glasir::Filter, 12	testDomain1, 17
Glasir::FunctionEditor, 14	testDomain2, 17
Glasir::Module, 18	testDomainFiltering, 17
Glasir::Optimizer, 19	Glasir::Module
Gradiniophinizor, 10	createResultingFile, 18
Evaluate	openFile, 18
Glasir::Filter, 12	Glasir::Optimizer
Glasir::FunctionEditor, 14	•
Gradini androneardin, Tr	createResultingFile, 19
Filter	Optimizer, 19 Glasir::XMLFile
Glasir::Filter, 11	
FunctionEditor	createResultFile, 21
Glasir::FunctionEditor, 14	getDomains, 21
	getXMLCodeFromFile, 21
getDomains	isEmpty, 21
Glasir::XMLFile, 21	XMLFile, 20, 21
getXMLCodeFromFile	isEmpty
Glasir::XMLFile, 21	isEmpty Glasir::XMLFile, 21
Glasir, 7	ClasiiAWLI ile, 21
Glasir.ADToolInstance, 9	launchADToolInstance
Glasir.App, 9	Glasir::BigGlasir, 10
Glasir.BigGlasir, 10	loadTemplate
Glasir.Filter, 11	Glasir::BigGlasir, 10
Glasir.FunctionEditor, 13	Glacii ii Digalacii, 10
Glasir.MainWindow, 16	MainWindow
Glasir.Module, 18	Glasir::MainWindow, 17
Glasir.Optimizer, 18	messageBox
Glasir.TemplateLibrary, 20	Glasir::MainWindow, 17
Glasir.XMLFile, 20	, · · ·
Glasir::ADToolInstance	OnClosing
ADToolInstance, 9	Glasir::MainWindow, 17
Glasir::BigGlasir	openFile
launchADToolInstance, 10	Glasir::Module, 18
loadTemplate, 10	Optimizer
saveProject, 10	Glasir::Optimizer, 19
Glasir::Filter	,
createResultingFile, 12	saveProject
Evaluate, 12	Glasir::BigGlasir, 10
Filter, 11	searchAndChange
searchAndChange1, 12	Glasir::FunctionEditor, 14
searchAndChange2, 12	searchAndChange1
Glasir::FunctionEditor	Glasir::Filter, 12
createResultingFile, 14	searchAndChange2
Evaluate, 14	Glasir::Filter, 12

24 INDEX

testDomain1

Glasir::MainWindow, 17

testDomain2

Glasir::MainWindow, 17

test Domain Filtering

Glasir::MainWindow, 17

XMLFile

Glasir::XMLFile, 20, 21