Glasir

1.0

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Chapter 5

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	

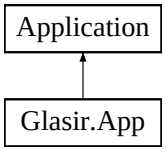
The documentation for this class was generated from the following file:

- 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 ( )

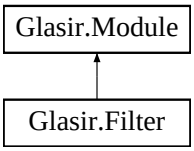
save a project

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.Filter (XMLFile *f,* string *domain,* String *max*)

Create a new Filter objetc with the given properties

Parameters

f	
domain	
max	

5.4.2 Member Function Documentation

5.4.2.1 XMLFile Glasir.Filter.createResultingFile ( )

create the resulting tree of the function

Parameters

fileName	
xmlCode	

5.4.2.2 override XMLFile Glasir.Filter.createResultingFile (XMLFile *file*) [virtual]

create the resulting tree of the function

Parameters

fileName	
xmlCode	

Implements Glasir.Module.

5.4.2.3 static double Glasir.Filter.Evaluate (string *expression*) [static]

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

Parameters

expression	

Returns

5.4.2.4 void Glasir.Filter.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

Parameters

code	
m	

5.4.2.5 void Glasir.Filter.searchAndChange2 (XElement *code,* double *m*)

same that searchAndChange1 method

Parameters

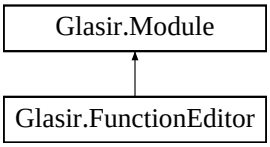
code	
m	

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 l1, String m1, String h1, String e1, String l2, 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]`

5.5.1 Constructor & Destructor Documentation

5.5.1.1 Glasir.FunctionEditor.FunctionEditor (XMLFile *f,* String *name,* String *fn,* string *firstP,* string *secondP,* String *l1,* 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	
l1	
m1	
h1	
e1	
l2	
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	

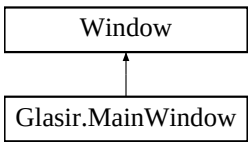
The documentation for this class was generated from the following file:

- 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 ( )

constructor

5.6.3 Member Function Documentation

5.6.3.1 static void Glasir.MainWindow.messageBox (string *message*) [static]

used for showing something

Parameters

message	

5.6.3.2 override void Glasir.MainWindow.OnClosing (CancelEventArgs *e*) [protected]

close project when exitting

Parameters

e	

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

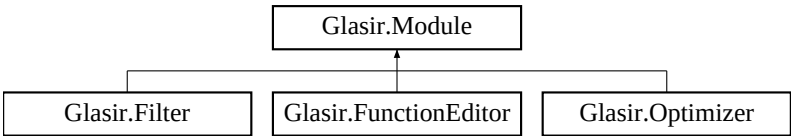
sender	
args	

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	

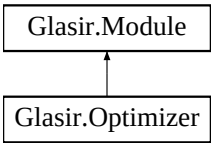
Returns

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 (XMLFile *file*)

Create a new XMLFile with the given parameter

Parameters

file	

5.10.1.3 Glasir.XMLFile.XMLFile (string *xmlfile,* XDocument *code*)

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

a	

Returns

5.10.2.2 List<String> Glasir.XMLFile.getDomains ( )

get the list of the domains used in the XMLFile

Returns

5.10.2.3 string Glasir.XMLFile.getXMLCodeFromFile ( )

Return the XMLCode of the file

Returns

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

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