GraphFramework

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7.3 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_↩ Implementierung/src/GraphFramework/Graph.cs-Dateireferenz . . . 37
7.4 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_↩ Implementierung/src/GraphFramework/GraphElement.cs-Dateireferenz . . . 38
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7.6 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_↩
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7.11 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_↩
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Kapitel 1

Verzeichnis der Namensbereiche

1.1 Pakete

Hier folgen die Pakete mit einer Kurzbeschreibung (wenn verfügbar):

GraphFramework 9
GraphFramework.Interfaces 9

Kapitel 2

Hierarchie-Verzeichnis

2.1 Klassenhierarchie

Die Liste der Ableitungen ist -mit Einschränkungen- alphabetisch sortiert:

GraphFramework.Interfaces.IAttribute 25
GraphFramework.Attribute 11
GraphFramework.Interfaces.IGraphElement 32
GraphFramework.GraphElement 22
GraphFramework.Edge 12
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GraphFramework.Interfaces.IEdge 26
GraphFramework.Edge 12
GraphFramework.Interfaces.IGraph 27
GraphFramework.Graph 14
GraphFramework.Interfaces.INode 34
GraphFramework.Node 35

Kapitel 3

Klassen-Verzeichnis

3.1 Auflistung der Klassen

Hier folgt die Aufzählung aller Klassen, Strukturen, Varianten und Schnittstellen mit einer Kurzbeschreibung:

GraphFramework.Attribute
The attribute class. A attribute is a holder of a generic value which has a name 11
GraphFramework.Edge
The edge class 12
GraphFramework.Graph
the graph class: holder of edges and nodes + methods to modify the graph 14
GraphFramework.GraphElement
the abstract graphelement class nearly every framework class inherits from. The class generalize the relation between classes that can have attributes and the attribute class 22
GraphFramework.Interfaces.IAttribute
An interface for classes that contain a value that has a name. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraphElement. . 25
GraphFramework.Interfaces.IEdge
An interface for classes that are able to connect two objects of a class that implements the interface INode. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph. 26
GraphFramework.Interfaces.IGraph
Classes that implement this interface are a representation of a set of objects that implement the interfaces INode and IEdge and the relations between them. It is able to perform actions on this objects. 27
GraphFramework.Interfaces.IGraphElement
An interface for classes that are able to hold objects of classes that implement the interface IAttribute. The interfaces INode, IEdge and IGraph inherit from this interface. 32
GraphFramework.Interfaces.INode
An interface for a class that is able to hold objects of a class that implements the interface IAttribute. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph. 34
GraphFramework.Node
Node class 35

Kapitel 4

Datei-Verzeichnis

4.1 Auflistung der Dateien

Hier folgt die Aufzählung aller Dateien mit einer Kurzbeschreibung:

C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Attribute.cs 37
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Edge.cs 37
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Graph.cs 37
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/GraphElement.cs 38
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Node.cs 39
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Interfaces/IAttribute.cs 38
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Interfaces/IEdge.cs 38
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Interfaces/IGraph.cs 39
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C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩
GraphFramework/Properties/AssemblyInfo.cs 40

Kapitel 5

Dokumentation der Namensbereiche

5.1 Paket GraphFramework

Namensbereiche

- package Interfaces

Klassen

- class Attribute

  The attribute class. A attribute is a holder of a generic value which has a name
- class Edge

  The edge class
- class Graph

  the graph class: holder of edges and nodes + methods to modify the graph
- class GraphElement

  the abstract graphelement class nearly every framework class inherits from. The class generalize the relation between classes that can have attributes and the attribute class
- class Node

  Node class

5.2 Paket GraphFramework.Interfaces

Klassen

- interface IAttribute

  An interface for classes that contain a value that has a name. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraphElement.
- interface IEdge

  An interface for classes that are able to connect two objects of a class that implements the interface INode. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.
- interface IGraph

  Classes that implement this interface are a representation of a set of objects that implement the interfaces INode and IEdge and the relations between them. It is able to perform actions on this objects.
- interface IGraphElement

  An interface for classes that are able to hold objects of classes that implement the interface IAttribute. The interfaces INode, IEdge and IGraph inherit from this interface.

- interface INode

  An interface for a class that is able to hold objects of a class that implements the interface IAttribute. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

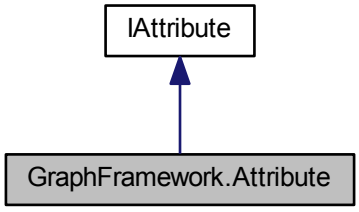
Kapitel 6

Klassen-Dokumentation

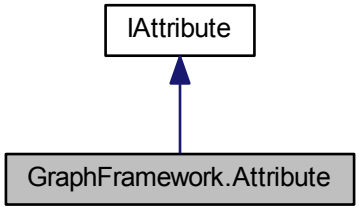
6.1 GraphFramework.Attribute Klassenreferenz

The attribute class. A attribute is a holder of a generic value which has a name

Klassendiagramm für GraphFramework.Attribute:



Zusammengehörigkeiten von GraphFramework.Attribute:



Öffentliche Methoden

- Attribute (string name, object val)

attribute constructor

Propertys

- object Value `[get, set]`

  Gets and sets the value of the attribute
- Type Type `[get]`

  Gets the type of the attribute
- string Name `[get]`

  Gets the name of the attribute

6.1.1 Ausführliche Beschreibung

The attribute class. A attribute is a holder of a generic value which has a name

6.1.2 Beschreibung der Konstruktoren und Destruktoren

6.1.2.1 GraphFramework.Attribute.Attribute (string *name,* object *val*)

attribute constructor

Parameter

name	the name
val	the generic value

6.1.3 Dokumentation der Propertys

6.1.3.1 string GraphFramework.Attribute.Name `[get]`

Gets the name of the attribute

6.1.3.2 Type GraphFramework.Attribute.Type `[get]`

Gets the type of the attribute

6.1.3.3 object GraphFramework.Attribute.Value `[get]`, `[set]`

Gets and sets the value of the attribute

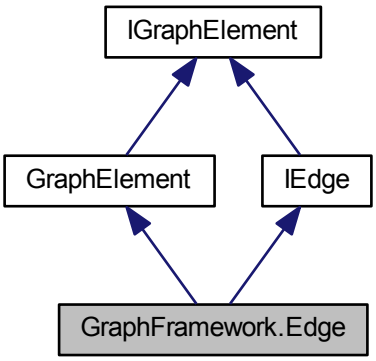
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Attribute.cs

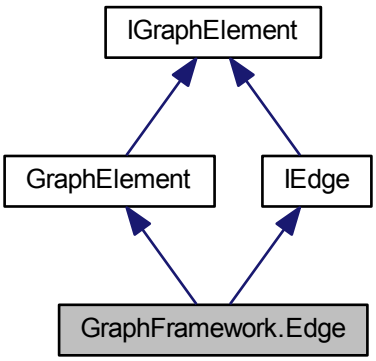
6.2 GraphFramework.Edge Klassenreferenz

The edge class

Klassendiagramm für GraphFramework.Edge:



Zusammengehörigkeiten von GraphFramework.Edge:



Paketfunktionen

- Edge (INode node1, INode node2, params IAttribute[ ] attributes)

  Add also attributes to the edge

Propertys

- INode Node1 `[get]`

  The first node the edge connects
- INode Node2 `[get]`

  The second node the edge connects

Weitere Geerbte Elemente

6.2.1 Ausführliche Beschreibung

The edge class

6.2.2 Beschreibung der Konstruktoren und Destruktoren

6.2.2.1 GraphFramework.Edge.Edge (INode *node1*, INode *node2*, params IAttribute[ ] *attributes*) [package]

Add also attributes to the edge

Parameter

node1	first node
node2	second node
attributes	

6.2.3 Dokumentation der Propertys

6.2.3.1 INode GraphFramework.Edge.Node1 [get]

The first node the edge connects

6.2.3.2 INode GraphFramework.Edge.Node2 [get]

The second node the edge connects

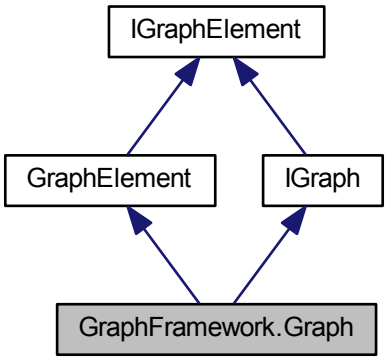
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Edge.cs

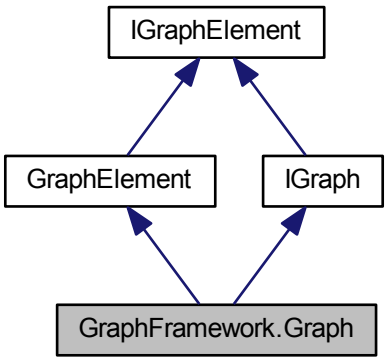
6.3 GraphFramework.Graph Klassenreferenz

the graph class: holder of edges and nodes + methods to modify the graph

Klassendiagramm für GraphFramework.Graph:



Zusammengehörigkeiten von GraphFramework.Graph:



Öffentliche Methoden

- Graph (params IAttribute[ ] attributes)

  creates a new graph with the given parameters
- void AddNode (INode node)

  adds the node to the node collection of the graph
- void RemoveNode (params INode[ ] nodesToRemove)

  removes the nodes identified by its reference from the graph
- void AddEdge (INode node1, INode node2, params IAttribute[ ] attributes)

  adds the edge to the edge collection of the graph
- void RemoveEdge (params IEdge[ ] edgesToRemove)

  removes the edge identified by its reference from the graph

- IEnumerable< INode > GetSingleNodes ()

  returns all Nodes that are not connected by Edges
- void AddGraph (IGraph graphToAdd)

  adds one Graph object to this graph
- void AddGraph (IGraph graphToAdd, INode thisGraphConnectionNode, INode graphToAddConnectionNode, params IAttribute[ ] attributes)

  adds one Graph object to this graph and connects it with an edge
- IEnumerable< IEdge > GetEdges (INode node1, INode node2)

  gets the edges which are connected to the nodes node1 and node2

Öffentliche, statische Methoden

- static IGraph MergeGraphs (IGraph graph1, IGraph graph2)

  merges the two graphs to one new
- static IGraph MergeGraphs (IGraph graph1, IGraph graph2, INode graphOneConnectionNode, INode graphTwoConnectionNode, params IAttribute[ ] attributes)

  merges the two graphs to one new and connects the two given nodes

Propertys

- IEnumerable< INode > Nodes `[get]`

  contains all nodes
- IEnumerable< IEdge > Edges `[get]`

  contains all edges

Weitere Geerbte Elemente

6.3.1 Ausführliche Beschreibung

the graph class: holder of edges and nodes + methods to modify the graph

6.3.2 Beschreibung der Konstruktoren und Destruktoren

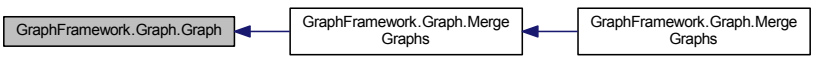
6.3.2.1 GraphFramework.Graph.Graph (params IAttribute[ ] *attributes*)

creates a new graph with the given parameters

Parameter

attributes	attributes to add to the graph

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.3.3 Dokumentation der Elementfunktionen

6.3.3.1 void GraphFramework.Graph.AddEdge (INode *node1,* INode *node2,* params IAttribute[ ] *attributes*)

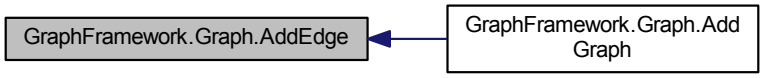
adds the edge to the edge collection of the graph

Parameter

node1	first node to which the edge is connected
node2	second node to which the edge is connected
attributes	attributes of the edge

Implementiert GraphFramework.Interfaces.IGraph.

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.3.3.2 void GraphFramework.Graph.AddGraph (IGraph *graphToAdd*)

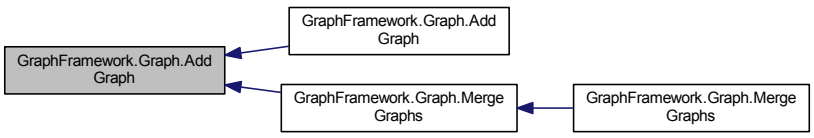
adds one Graph object to this graph

Parameter

graphToAdd	Graph object that will be added to this

Implementiert GraphFramework.Interfaces.IGraph.

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.3.3.3 void GraphFramework.Graph.AddGraph (IGraph *graphToAdd,* INode *thisGraphConnectionNode,* INode *graphToAddConnectionNode,* params IAttribute[ ] *attributes*)

adds one Graph object to this graph and connects it with an edge

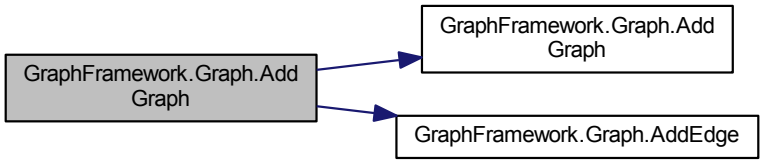
Parameter

graphToAdd	Graph object that will be added to this
thisGraph↩ ConnectionNode	first Node for new Edge. Contained in graph 1.
graphToAdd↩ ConnectionNode	second Node for new Edge. Contained in graph 2.

attributes	Attributes of new Edge

Implementiert GraphFramework.Interfaces.IGraph.

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



6.3.3.4 void GraphFramework.Graph.AddNode (INode *node*)

adds the node to the node collection of the graph

Parameter

node	reference of the node to add

Implementiert GraphFramework.Interfaces.IGraph.

6.3.3.5 IEnumerable<IEdge> GraphFramework.Graph.GetEdges (INode *node1,* INode *node2*)

gets the edges which are connected to the nodes node1 and node2

Parameter

node1	first node to which the edge has to be connected
node2	second node to which the edge has to be connected

Rückgabe

all the edges which connect the nodes node1 and node2

Implementiert GraphFramework.Interfaces.IGraph.

6.3.3.6 IEnumerable<INode> GraphFramework.Graph.GetSingleNodes ( )

returns all Nodes that are not connected by Edges

Rückgabe

returns all single Nodes

Implementiert GraphFramework.Interfaces.IGraph.

6.3.3.7 static IGraph GraphFramework.Graph.MergeGraphs (IGraph *graph1,* IGraph *graph2*) [static]

merges the two graphs to one new

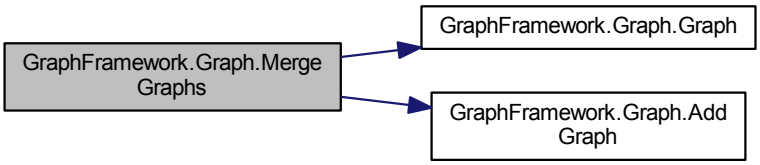
Parameter

graph1	first graph
graph2	second graph

Rückgabe

the new graph, which contains the given two

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:

6.3.3.8 static IGraph GraphFramework.Graph.MergeGraphs (IGraph *graph1*, IGraph *graph2*, INode *graphOneConnectionNode*, INode *graphTwoConnectionNode*, params IAttribute[] *attributes*) [static]

merges the two graphs to one new and connects the two given nodes

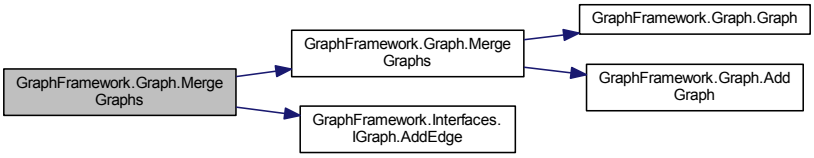
Parameter

graph1	first graph
graph2	second graph
graphOne↩ ConnectionNode	node in graph one to connect with node in graph two
graphTwo↩ ConnectionNode	node in graph two to connect with node in graph one
attributes	attributes to add to the edge between graphOneConnectionNode and graphTwoConnection↩ Node

Rückgabe

the new graph, which contains the given two and a edge between the given nodes

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



6.3.3.9 void GraphFramework.Graph.RemoveEdge (params IEdge[ ] *edgesToRemove*)

removes the edge identified by its reference from the graph

Parameter

edgesToRemove	reference of the edges to remove

Implementiert GraphFramework.Interfaces.IGraph.

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:

6.3.3.10 void GraphFramework.Graph.RemoveNode (params INode[ ] *nodesToRemove*)

removes the nodes identified by its reference from the graph

Parameter

nodesToRemove	reference of the nodes to remove

Implementiert GraphFramework.Interfaces.IGraph.

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:

6.3.4 Dokumentation der Propertys

6.3.4.1 IEnumerable<IEdge> GraphFramework.Graph.Edges [get]

contains all edges

6.3.4.2 IEnumerable<INode> GraphFramework.Graph.Nodes [get]

contains all nodes

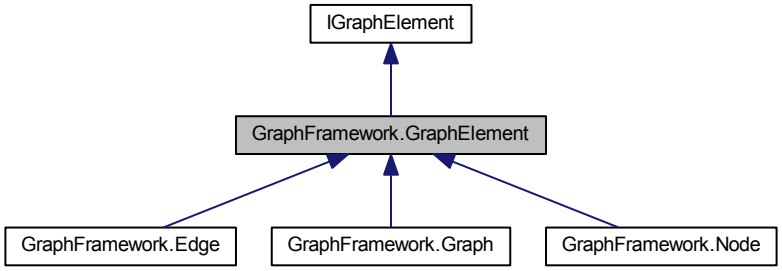
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Graph.cs

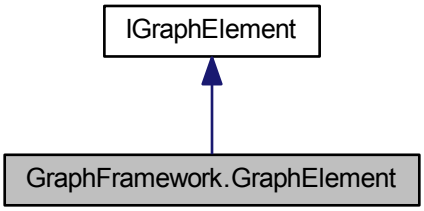
6.4 GraphFramework.GraphElement Klassenreferenz

the abstract graphelement class nearly every framework class inherits from. The class generalize the relation between classes that can have attributes and the attribute class

Klassendiagramm für GraphFramework.GraphElement:



Zusammengehörigkeiten von GraphFramework.GraphElement:



Öffentliche Methoden

- void AddAttribute (IAttribute attribute)

  Adds an attribute to the node. If the element allready has and attribute with this name, it is not added
- void RemoveAttribute (string nameOfAttributeToRemove)

  Removes an attribute with the defined name from the element. (if the element has an attribute with this name)
- void RemoveAttribute (IAttribute attributeToRemove)

  Removes the defined attribute if the element holds it
- IAttribute GetAttributeByName (string name)

  Returns the attribute with the given name. Warning: can be also null

Geschützte Methoden

- GraphElement (params IAttribute[ ] attributes)

  Special constructor which adds multiple attributes to the element

Geschützte Attribute

- List< IAttribute > mAttributes

  The attributes of the element, sorted by their names

Propertys

- IEnumerable< IAttribute > Attributes `[get]`

  Gets the element's attributes as a collection

6.4.1 Ausführliche Beschreibung

the abstract graphelement class nearly every framework class inherits from. The class generalize the relation between classes that can have attributes and the attribute class

6.4.2 Beschreibung der Konstruktoren und Destruktoren

6.4.2.1 GraphFramework.GraphElement.GraphElement (params IAttribute[ ] *attributes*) `[protected]`

Special constructor which adds multiple attributes to the element

Parameter

attributes	the attributes you want to add

6.4.3 Dokumentation der Elementfunktionen

6.4.3.1 void GraphFramework.GraphElement.AddAttribute (IAttribute *attribute*)

Adds an attribute to the node. If the element allready has and attribute with this name, it is not added

Parameter

attribute	the attribute you want to add

Implementiert GraphFramework.Interfaces.IGraphElement.

6.4.3.2 IAttribute GraphFramework.GraphElement.GetAttributeByName (string *name*)

Returns the attribute with the given name. Warning: can be also null

Parameter

name	

Rückgabe

null or the attribute with the given name

6.4.3.3 void GraphFramework.GraphElement.RemoveAttribute (string *nameOfAttributeToRemove*)

Removes an attribute with the defined name from the element. (if the element has an attribute with this name)

Parameter

nameOf↩ AttributeTo↩ Remove	the name of the attribute you want to remove

Implementiert GraphFramework.Interfaces.IGraphElement.

6.4.3.4 void GraphFramework.GraphElement.RemoveAttribute (IAttribute *attributeToRemove*)

Removes the defined attribute if the element holds it

Parameter

attributeTo↩ Remove	

Implementiert GraphFramework.Interfaces.IGraphElement.

6.4.4 Dokumentation der Datenelemente

6.4.4.1 List<IAttribute> GraphFramework.GraphElement.mAttributes [protected]

The attributes of the element, sorted by their names

6.4.5 Dokumentation der Propertys

6.4.5.1 IEnumerable<IAttribute> GraphFramework.GraphElement.Attributes [get]

Gets the element's attributes as a collection

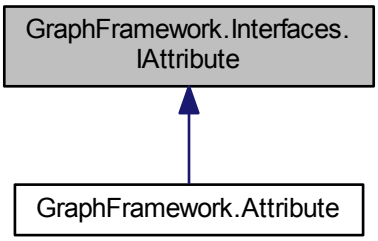
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/GraphElement.cs

6.5 GraphFramework.Interfaces.IAttribute Schnittstellenreferenz

An interface for classes that contain a value that has a name. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraphElement.

Klassendiagramm für GraphFramework.Interfaces.IAttribute:



Propertys

- object Value `[get, set]`
  Value of the IAttribute.
- Type Type `[get]`
  Type of the property Value of the IAttribute.
- string Name `[get]`
  Name to identify the IAttribute.

6.5.1 Ausführliche Beschreibung

An interface for classes that contain a value that has a name. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraphElement.

6.5.2 Dokumentation der Propertys

6.5.2.1 string GraphFramework.Interfaces.IAttribute.Name `[get]`

Name to identify the IAttribute.

6.5.2.2 Type GraphFramework.Interfaces.IAttribute.Type `[get]`

Type of the property Value of the IAttribute.

6.5.2.3 object GraphFramework.Interfaces.IAttribute.Value `[get],[set]`

Value of the IAttribute.

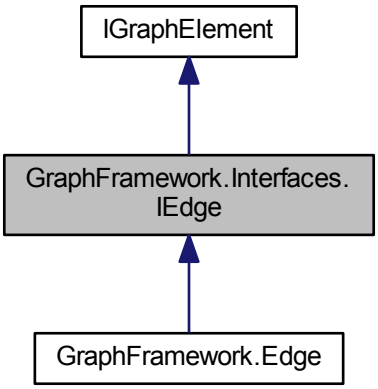
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Interfaces/IAttribute.cs

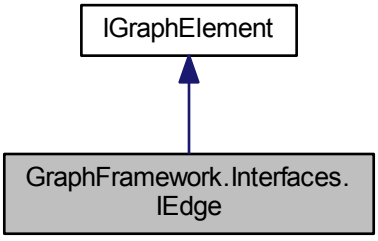
6.6 GraphFramework.Interfaces.IEdge Schnittstellenreferenz

An interface for classes that are able to connect two objects of a class that implements the interface INode. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

Klassendiagramm für GraphFramework.Interfaces.IEdge:



Zusammengehörigkeiten von GraphFramework.Interfaces.IEdge:



Propertys

- INode Node1 `[get]`

  The first INode to which the IEdge is connected.

- INode Node2 `[get]`

  The second INode to which the IEdge is connected.

Weitere Geerbte Elemente

6.6.1 Ausführliche Beschreibung

An interface for classes that are able to connect two objects of a class that implements the interface INode. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

6.6.2 Dokumentation der Propertys

6.6.2.1 INode GraphFramework.Interfaces.IEdge.Node1 [get]

The first INode to which the IEdge is connected.

6.6.2.2 INode GraphFramework.Interfaces.IEdge.Node2 [get]

The second INode to which the IEdge is connected.

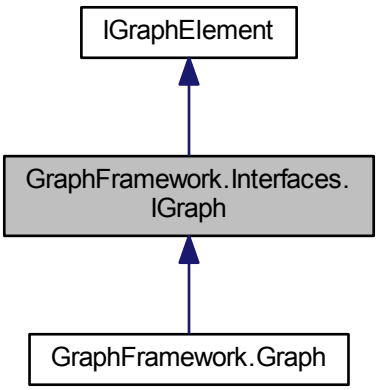
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Interfaces/IEdge.cs

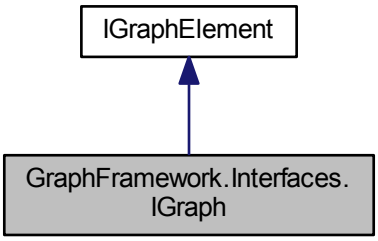
6.7 GraphFramework.Interfaces.IGraph Schnittstellenreferenz

Classes that implement this interface are a representation of a set of objects that implement the interfaces INode and IEdge and the relations between them. It is able to perform actions on this objects.

Klassendiagramm für GraphFramework.Interfaces.IGraph:



Zusammengehörigkeiten von GraphFramework.Interfaces.IGraph:



Öffentliche Methoden

- void AddNode (INode node)

  Adds the INode to property Nodes of the IGraph.
- void RemoveNode (params INode[ ] nodesToRemove)

  Removes the INode from the property Nodes of the IGraph.
- void AddEdge (INode node1, INode node2, params IAttribute[ ] attributes)

  Adds the IEdge to the property Edges of the IGraph.
- void RemoveEdge (params IEdge[ ] edgesToRemove)

  Removes the IEdge from the property Edges of the IGraph.
- IEnumerable< INode > GetSingleNodes ()

  Returns all INode objects of this IGraph that are not connected by any IEdges.
- void AddGraph (IGraph graphToAdd)

  Adds one IGraph object to this IGraph.
- void AddGraph (IGraph graphToAdd, INode thisGraphConnectionNode, INode graphToAddConnectionNode, params IAttribute[ ] attributes)

  Adds one IGraph object to this IGraph and connects it with an IEdge.
- IEnumerable< IEdge > GetEdges (INode node1, INode node2)

  Gets the IEdge objects which are connected to the INode obejcts node1 and node2.

Propertys

- IEnumerable< INode > Nodes `[get]`

  Contains all INode objects that are part of the IGraph.
- IEnumerable< IEdge > Edges `[get]`

  Contains all IEdge objects that are part of the IGraph.

6.7.1 Ausführliche Beschreibung

Classes that implement this interface are a representation of a set of objects that implement the interfaces INode and IEdge and the relations between them. It is able to perform actions on this objects.

6.7.2 Dokumentation der Elementfunktionen

6.7.2.1 void GraphFramework.Interfaces.IGraph.AddEdge (INode *node1,* INode *node2,* params IAttribute[ ] *attributes*)

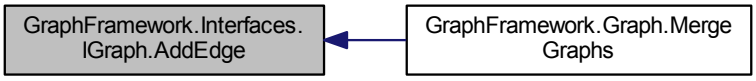
Adds the IEdge to the property Edges of the IGraph.

Parameter

node1	first INode to which the IEdge is connected
node2	second INode to which the IEdge is connected
attributes	IAttribute objects of the IEdge

Implementiert in GraphFramework.Graph.

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.7.2.2 void GraphFramework.Interfaces.IGraph.AddGraph (IGraph *graphToAdd*)

Adds one IGraph object to this IGraph.

Parameter

graphToAdd	IGraph object that will be added to this

Implementiert in GraphFramework.Graph.

6.7.2.3 void GraphFramework.Interfaces.IGraph.AddGraph (IGraph *graphToAdd,* INode *thisGraphConnectionNode,* INode *graphToAddConnectionNode,* params IAttribute[ ] *attributes*)

Adds one IGraph object to this IGraph and connects it with an IEdge.

Parameter

graphToAdd	IGraph object that will be added to this
thisGraph↩ ConnectionNode	first INode for new IEdge
graphToAdd↩ ConnectionNode	second INode for new IEdge
attributes	IAttribute objects of new IEdge

Implementiert in GraphFramework.Graph.

6.7.2.4 void GraphFramework.Interfaces.IGraph.AddNode (INode *node*)

Adds the INode to property Nodes of the IGraph.

Parameter

node	reference of the INode to add

Implementiert in GraphFramework.Graph.

6.7.2.5 IEnumerable<IEdge> GraphFramework.Interfaces.IGraph.GetEdges (INode *node1,* INode *node2*)

Gets the IEdge objects which are connected to the INode obejcts node1 and node2.

Parameter

node1	first INode to which the IEdge has to be connected
node2	second INode to which the IEdge has to be connected

Rückgabe

all the IEdge objects which connect the INode objects node1 and node2

Implementiert in GraphFramework.Graph.

6.7.2.6 IEnumerable<INode> GraphFramework.Interfaces.IGraph.GetSingleNodes ( )

Returns all INode objects of this IGraph that are not connected by any IEdges.

Rückgabe

returns all single INode objects

Implementiert in GraphFramework.Graph.

6.7.2.7 void GraphFramework.Interfaces.IGraph.RemoveEdge (params IEdge[ ] *edgesToRemove*)

Removes the IEdge from the property Edges of the IGraph.

Parameter

edgesToRemove	reference of the IEdge objects to remove

Implementiert in GraphFramework.Graph.

6.7.2.8 void GraphFramework.Interfaces.IGraph.RemoveNode (params INode[ ] *nodesToRemove*)

Removes the INode from the property Nodes of the IGraph.

Parameter

nodesToRemove	reference of the INode objects to remove

Implementiert in GraphFramework.Graph.

6.7.3 Dokumentation der Propertys

6.7.3.1 IEnumerable<IEdge> GraphFramework.Interfaces.IGraph.Edges [get]

Contains all IEdge objects that are part of the IGraph.

6.7.3.2 IEnumerable<INode> GraphFramework.Interfaces.IGraph.Nodes [get]

Contains all INode objects that are part of the IGraph.

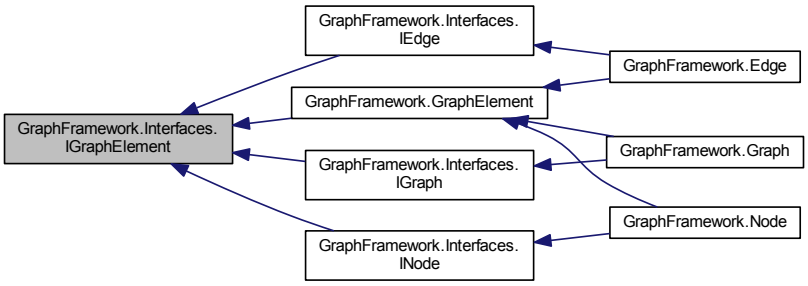
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Interfaces/IGraph.cs

6.8 GraphFramework.Interfaces.IGraphElement Schnittstellenreferenz

An interface for classes that are able to hold objects of classes that implement the interface IAttribute. The interfaces INode, IEdge and IGraph inherit from this interface.

Klassendiagramm für GraphFramework.Interfaces.IGraphElement:



Öffentliche Methoden

- void AddAttribute (IAttribute attribute)

  Adds the IAttribute to the property Attributes of the IGraphElement.
- void RemoveAttribute (string nameOfAttributeToRemove)

  Removes the IAttribute identified by its name from the property Attributes.
- void RemoveAttribute (IAttribute attributeToRemove)

  Removes the IAttribute from the property Attributes.

Propertys

- IEnumerable< IAttribute > Attributes `[get]`

  Contains all IAttribute objects of the IGraphElement.

6.8.1 Ausführliche Beschreibung

An interface for classes that are able to hold objects of classes that implement the interface IAttribute. The interfaces INode, IEdge and IGraph inherit from this interface.

6.8.2 Dokumentation der Elementfunktionen

6.8.2.1 void GraphFramework.Interfaces.IGraphElement.AddAttribute (IAttribute *attribute*)

Adds the IAttribute to the property Attributes of the IGraphElement.

Parameter

attribute	reference of the IAttribute to add to the property Attributes

Implementiert in GraphFramework.GraphElement.

6.8.2.2 void GraphFramework.Interfaces.IGraphElement.RemoveAttribute (string *nameOfAttributeToRemove*)

Removes the IAttribute identified by its name from the property Attributes.

Parameter

nameOfAttributeToRemove	property Name of the IAttribute to remove

Implementiert in GraphFramework.GraphElement.

6.8.2.3 void GraphFramework.Interfaces.IGraphElement.RemoveAttribute (IAttribute *attributeToRemove*)

Removes the IAttribute from the property Attributes.

Parameter

attributeToRemove	reference of the IAttribute to remove

Implementiert in GraphFramework.GraphElement.

6.8.3 Dokumentation der Propertys

6.8.3.1 IEnumerable<IAttribute> GraphFramework.Interfaces.IGraphElement.Attributes [get]

Contains all IAttribute objects of the IGraphElement.

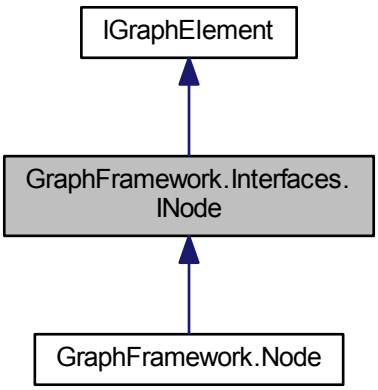
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Interfaces/IGraphElement.cs

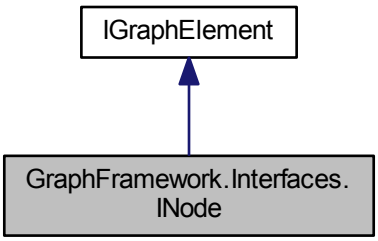
6.9 GraphFramework.Interfaces.INode Schnittstellenreferenz

An interface for a class that is able to hold objects of a class that implements the interface IAttribute. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

Klassendiagramm für GraphFramework.Interfaces.INode:



Zusammengehörigkeiten von GraphFramework.Interfaces.INode:



Weitere Geerbte Elemente

6.9.1 Ausführliche Beschreibung

An interface for a class that is able to hold objects of a class that implements the interface IAttribute. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

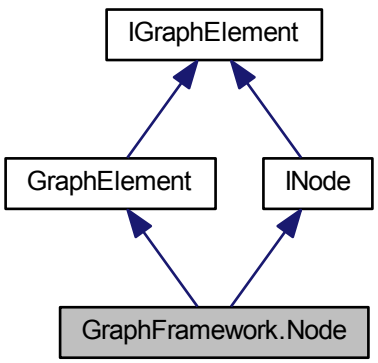
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Interfaces/INode.cs

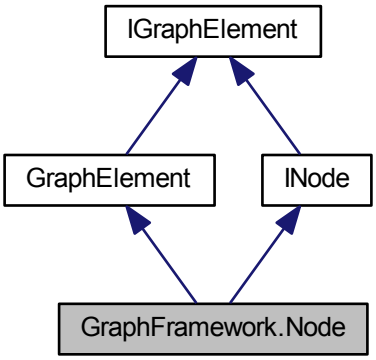
6.10 GraphFramework.Node Klassenreferenz

Node class

Klassendiagramm für GraphFramework.Node:



Zusammengehörigkeiten von GraphFramework.Node:



Öffentliche Methoden

- Node (params IAttribute[ ] attributes)

  Adds also attributes to the node

Weitere Geerbte Elemente

6.10.1 Ausführliche Beschreibung

Node class

6.10.2 Beschreibung der Konstruktoren und Destruktoren

6.10.2.1 GraphFramework.Node.Node (params IAttribute[ ] *attributes*)

Adds also attributes to the node

Parameter

attributes	the attributes you want to add

Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↩ GraphFramework/Node.cs

Kapitel 7

Datei-Dokumentation

7.1 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Attribute.cs-Dateireferenz

Klassen

- class GraphFramework.Attribute

  The attribute class. A attribute is a holder of a generic value which has a name

Namensbereiche

- package GraphFramework

7.2 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Edge.cs-Dateireferenz

Klassen

- class GraphFramework.Edge

  The edge class

Namensbereiche

- package GraphFramework

7.3 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Graph.cs-Dateireferenz

Klassen

- class GraphFramework.Graph

  the graph class: holder of edges and nodes + methods to modify the graph

Namensbereiche

- package GraphFramework

7.4 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/GraphElement.cs-Dateireferenz

Klassen

- class GraphFramework.GraphElement

  the abstract graphelement class nearly every framework class inherits from. The class generalize the relation between classes that can have attributes and the attribute class

Namensbereiche

- package GraphFramework

7.5 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Interfaces/IAttribute.cs-Dateireferenz

Klassen

- interface GraphFramework.Interfaces.IAttribute

  An interface for classes that contain a value that has a name. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraphElement.

Namensbereiche

- package GraphFramework.Interfaces

7.6 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Interfaces/IEdge.cs-Dateireferenz

Klassen

- interface GraphFramework.Interfaces.IEdge

  An interface for classes that are able to connect two objects of a class that implements the interface INode. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

Namensbereiche

- package GraphFramework.Interfaces

7.7 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03↩ _Implementierung/src/GraphFramework/Interfaces/IGraph.cs-Dateireferenz

Klassen

- interface GraphFramework.Interfaces.IGraph

  Classes that implement this interface are a representation of a set of objects that implement the interfaces INode and IEdge and the relations between them. It is able to perform actions on this objects.

Namensbereiche

- package GraphFramework.Interfaces

7.8 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03↩ _Implementierung/src/GraphFramework/Interfaces/IGraphElement.cs-Dateireferenz

Klassen

- interface GraphFramework.Interfaces.IGraphElement

  An interface for classes that are able to hold objects of classes that implement the interface IAttribute. The interfaces INode, IEdge and IGraph inherit from this interface.

Namensbereiche

- package GraphFramework.Interfaces

7.9 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03↩ _Implementierung/src/GraphFramework/Interfaces/INode.cs-Dateireferenz

Klassen

- interface GraphFramework.Interfaces.INode

  An interface for a class that is able to hold objects of a class that implements the interface IAttribute. Objects of classes that implement this interface can be added to objects of classes that implement the interface IGraph.

Namensbereiche

- package GraphFramework.Interfaces

7.10 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03↩ _Implementierung/src/GraphFramework/Node.cs-Dateireferenz

Klassen

- class GraphFramework.Node

  Node class

Namensbereiche

- package GraphFramework

7.11 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/GraphFramework/Properties/AssemblyInfo.cs-Dateireferenz

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