

UseCaseAnalyser.GraphVisualiser

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7.6	C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03↵ _Implementierung/src/UseCaseAnalyser.GraphVisualiser/UseCaseGraphVisualiser.xaml.cs↵ Dateireferenz	30
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Kapitel 1

Verzeichnis der Namensbereiche

1.1 Pakete

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

UseCaseAnalyser	9
UseCaseAnalyser.GraphVisualiser	9
UseCaseAnalyser.GraphVisualiser.DrawingElements	9

Kapitel 2

Hierarchie-Verzeichnis

2.1 Klassenhierarchie

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

FrameworkElement	
UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine	11
UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement	16
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge	17
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode	23
UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser	21

Kapitel 3

Klassen-Verzeichnis

3.1 Auflistung der Klassen

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

UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine	
Class for displaying a capped line. Sources from http://blogs.msdn.com/b/mrochon/archive/2011/01/aspx	11
UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement	
An interface for classes that contain a GraphElement and should be selectable via the visualisation.	16
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge	
Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.	17
UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser	
Class for displaying a UseCaseGraph element. It offers possibilities to select a single Graph↔Element while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.	21
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode	
Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.	23

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/↔ UseCaseAnalyser.GraphVisualiser/ UseCaseGraphVisualiser.xaml.cs	30
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ CappedLine.cs	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ ISelectableGraphElement.cs	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ UseCaseEdge.xaml.cs	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ UseCaseNode.xaml.cs	30
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/Properties/ AssemblyInfo.cs	30

Kapitel 5

Dokumentation der Namensbereiche

5.1 Paket UseCaseAnalyser

Namensbereiche

- package [GraphVisualiser](#)

5.2 Paket UseCaseAnalyser.GraphVisualiser

Namensbereiche

- package [DrawingElements](#)

Klassen

- class [UseCaseGraphVisualiser](#)
Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

5.3 Paket UseCaseAnalyser.GraphVisualiser.DrawingElements

Klassen

- class [CappedLine](#)
Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-l.aspx>
- interface [ISelectableGraphElement](#)
An interface for classes that contain a GraphElement and should be selectable via the visualisation.
- class [UseCaseEdge](#)
Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.
- class [UseCaseNode](#)
Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

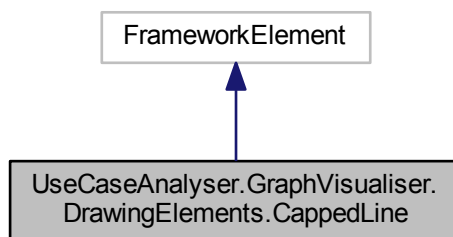
Kapitel 6

Klassen-Dokumentation

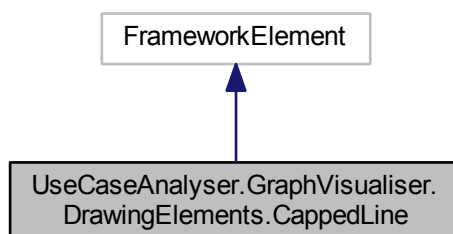
6.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine Klassenreferenz

Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom.aspx>

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



Öffentliche Methoden

- virtual void [OnLinePathChanged](#) (PathGeometry value)
Property changed event handler for LinePath property.
- virtual void [OnBeginCapChanged](#) (Geometry value)
Property changed event handler for capped line property at the beginning of the LinePath.
- virtual void [OnEndCapChanged](#) (Geometry value)
Property changed event handler for capped line property at the end of the LinePath.

Statische öffentliche Attribute

- static readonly DependencyProperty [StrokeProperty](#) = Shape.StrokeProperty.AddOwner(typeof ([CappedLine](#)))
Binding configuration for a dependency property which is setting StrokeProperty
- static readonly DependencyProperty [StrokeThicknessProperty](#)
Binding configuration for a dependency property which is setting StrokeThicknessProperty
- static readonly DependencyProperty [LinePathProperty](#)
Binding configuration for a dependency property which is setting LinePathProperty
- static readonly DependencyProperty [BeginCapProperty](#)
Binding configuration for a dependency property which is setting BeginCapProperty
- static readonly DependencyProperty [EndCapProperty](#)
Binding configuration for a dependency property which is setting EndCapProperty

Geschützte Methoden

- override void [OnRender](#) (DrawingContext dc)
Logic for rendering a capped line
- override Size [MeasureOverride](#) (Size availableSize)
Overrides how size is measured

Propertys

- Brush [Stroke](#) [get, set]
Property for setting and getting Stroke
- double [StrokeThickness](#) [get, set]
Property for setting and getting StrokeThickness
- PathGeometry [LinePath](#) [get, set]
Property for setting and getting LinePath
- Geometry [BeginCap](#) [get, set]
Property for setting and getting cap at the start of the LinePath
- Geometry [EndCap](#) [get, set]
Property for setting and getting cap at the end of the LinePath

6.1.1 Ausführliche Beschreibung

Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom.aspx>

6.1.2 Dokumentation der Elementfunktionen

6.1.2.1 `override Size UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.MeasureOverride (Size availableSize)`
[protected]

Overrides how size is measured

Parameter

<i>availableSize</i>	Size that is available
----------------------	------------------------

Rückgabe

New measured size

6.1.2.2 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnBeginCapChanged (Geometry value)`
`[virtual]`

Property changed evented handler for capped line property at the beginning of the LinePath.

Parameter

<i>value</i>	new Geometry value
--------------	--------------------

6.1.2.3 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnEndCapChanged (Geometry value)`
`[virtual]`

Property changed evented handler for capped line property at the end of the LinePath.

Parameter

<i>value</i>	new Geometry value
--------------	--------------------

6.1.2.4 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnLinePathChanged (PathGeometry value)`
`[virtual]`

Property changed evented handler for LinePath property.

Parameter

<i>value</i>	new PathGeometry value
--------------	------------------------

6.1.2.5 `override void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnRender (DrawingContext dc)`
`[protected]`

Logic for rendering a capped line

Parameter

<i>dc</i>	DrawingContext of the rendering capped line
-----------	---

6.1.3 Dokumentation der Datenelemente

6.1.3.1 `readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCapProperty`
`[static]`

Initialisierung:

```
=
    DependencyProperty.Register("BeginCap", typeof (Geometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            BeginCapChangedCallback))
```

Binding configuration for a dependency property which is setting BeginCapProperty

6.1.3.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCapProperty [static]

Initialisierung:

```
=
    DependencyProperty.Register("EndCap", typeof (Geometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            EndCapChangedCallback))
```

Binding configuration for a dependency property which is setting EndCapProperty

6.1.3.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePathProperty [static]

Initialisierung:

```
=
    DependencyProperty.Register("LinePath", typeof (PathGeometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            LinePathChangedCallback))
```

Binding configuration for a dependency property which is setting LinePathProperty

6.1.3.4 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeProperty = Shape.StrokeProperty.AddOwner(typeof (CappedLine)) [static]

Binding configuration for a dependency property which is setting StrokeProperty

6.1.3.5 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThicknessProperty [static]

Initialisierung:

```
=
    Shape.StrokeThicknessProperty.AddOwner(typeof (CappedLine))
```

Binding configuration for a dependency property which is setting StrokeThicknessProperty

6.1.4 Dokumentation der Propertys

6.1.4.1 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCap [get], [set]

Property for setting and getting cap at the start of the LinePath

6.1.4.2 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCap [get], [set]

Property for setting and getting cap at the end of the LinePath

6.1.4.3 PathGeometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePath [get], [set]

Property for setting and getting LinePath

6.1.4.4 Brush UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.Stroke [get], [set]

Property for setting and getting Stroke

6.1.4.5 double UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThickness [get], [set]

Property for setting and getting StrokeThickness

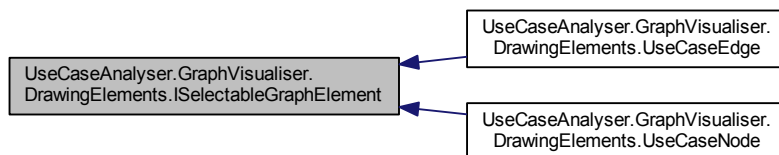
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- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/CappedLine.cs

6.2 UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement Schnittstellenreferenz

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement:



Öffentliche Methoden

- void **Select** ()
Change selection state to selected
- void **Unselect** ()
Reset selection state
- void **ChangeSelection** ()
Toggle selection state

Propertys

- bool **Selected** [get]
Check if object is selected
- IGraphElement **CurrentElement** [get]
Get reference to IGraphElement if selected

6.2.1 Ausführliche Beschreibung

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

6.2.2 Dokumentation der Elementfunktionen

6.2.2.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.ChangeSelection ()

Toggle selection state

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

6.2.2.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Select ()

Change selection state to selected

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

6.2.2.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Unselect ()

Reset selection state

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

6.2.3 Dokumentation der Property

6.2.3.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.CurrentElement [get]

Get reference to IGraphElement if selected

6.2.3.2 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Selected [get]

Check if object is selected

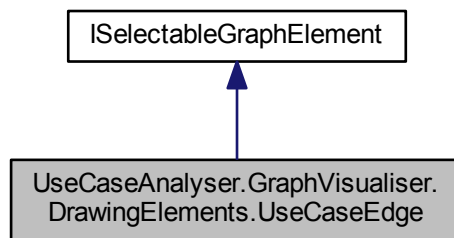
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/[ISelectableGraphElement.cs](#)

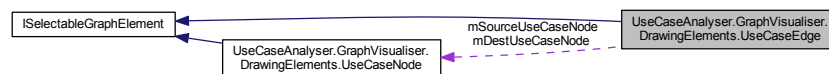
6.3 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge Klassenreferenz

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



Öffentliche Typen

- enum [DockedStatus](#) { [DockedStatus.Top](#), [DockedStatus.Bottom](#), [DockedStatus.Left](#), [DockedStatus.Right](#) }
Docked status of [CappedLine](#) on [UseCaseNode](#)
- enum [EdgeProcessType](#) { [EdgeProcessType.ForwardEdge](#), [EdgeProcessType.BackwardEdge](#) }
Type of [UseCaseEdge](#) which will be displayed

Öffentliche Methoden

- [UseCaseEdge](#) ([UseCaseNode](#) source, [UseCaseNode](#) dest, [IEdge](#) edge)
Creates a new instance of an visual presenter of an [UseCaseEdge](#)
- void [RecalcBezier](#) ()
Recalculation of the Bezier curve and redraw the Edge
- void [SetDrawingBrush](#) ([Brush](#) newBrush)
Set new brush color to this Edge
- void [Select](#) ()
Select this element
- void [Unselect](#) ()
Unselect this element
- void [ChangeSelection](#) ()
Switch selection status of this element

Öffentliche Attribute

- readonly [UseCaseNode](#) [mDestUseCaseNode](#)

Reference of destination visual [UseCaseNode](#)

- readonly [UseCaseNode](#) mSourceUseCaseNode

Reference of source visual [UseCaseNode](#)

Propertys

- IEdge [Edge](#) [get]
Reference to the Edge in the UseCaseGraph
- bool [Selected](#) [get]
Selected status of the element
- [DockedStatus](#) [DockPosSourceElement](#) [get, set]
Dock position of [CappedLine](#) on the source Element
- [DockedStatus](#) [DockPosDestElement](#) [get, set]
Dock Position Capped Line on the Destination Element
- [EdgeProcessType](#) [ProcessType](#) [get, set]
Process type of Edge which will be displayed
- IGraphElement [CurrentElement](#) [get]
Reference to the element in the UseCaseGraph

6.3.1 Ausführliche Beschreibung

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

6.3.2 Dokumentation der Aufzählungstypen

6.3.2.1 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockedStatus

Docked status of [CappedLine](#) on [UseCaseNode](#)

Aufzählungswerte

Top [UseCaseEdge](#) is visualised on top of [UseCaseNode](#)

Bottom [UseCaseEdge](#) is visualised on bottom of [UseCaseNode](#)

Left [UseCaseEdge](#) is visualised on the left of [UseCaseNode](#)

Right [UseCaseEdge](#) is visualised on the right of [UseCaseNode](#)

6.3.2.2 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.EdgeProcessType

Type of [UseCaseEdge](#) which will be displayed

Aufzählungswerte

ForwardEdge [UseCaseEdge](#) is a forwarding edge

BackwardEdge [UseCaseEdge](#) is a backwarding edge ([UseCaseNode](#) with type [JumpNode](#) as source)

6.3.3 Beschreibung der Konstruktoren und Destruktoren

6.3.3.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.UseCaseEdge ([UseCaseNode](#) source, [UseCaseNode](#) dest, IEdge edge)

Creates a new instance of an visual presenter of an [UseCaseEdge](#)

Parameter

<i>source</i>	Source UseCaseNode
<i>dest</i>	Destination UseCaseNode
<i>edge</i>	Reference to the Edge in the Graph

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



6.3.4 Dokumentation der Elementfunktionen

6.3.4.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ChangeSelection ()

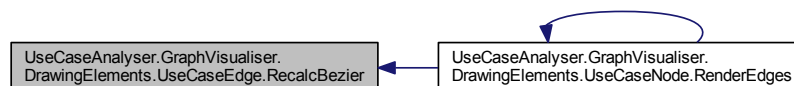
Switch selection status of this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.3.4.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.RecalcBezier ()

Recaclulation of the Bezier curve and redraw the Edge

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



6.3.4.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Select ()

Select this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.3.4.4 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.SetDrawingBrush (Brush newBrush)

Set new brush color to this Edge

Parameter

<i>newBrush</i>	future color which will be used for drawing
-----------------	---

6.3.4.5 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Unselect ()

Unselect this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.3.5 Dokumentation der Datenelemente

6.3.5.1 readonly **UseCaseNode** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mDestUseCaseNode

Reference of destination visual [UseCaseNode](#)

6.3.5.2 readonly **UseCaseNode** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mSourceUseCaseNode

Reference of source visual [UseCaseNode](#)

6.3.6 Dokumentation der Propertys

6.3.6.1 **IGraphElement** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.CurrentElement [get]

Reference to the element in the UseCaseGraph

6.3.6.2 **DockedStatus** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosDestElement [get], [set], [package]

Dock Position Capped Line on the Destination Element

6.3.6.3 **DockedStatus** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosSourceElement [get], [set], [package]

Dock position of [CappedLine](#) on the source Element

6.3.6.4 **IEdge** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Edge [get]

Reference to the Edge in the UseCaseGraph

6.3.6.5 **EdgeProcessType** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ProcessType [get], [set], [package]

Process type of Edge which will be displayed

6.3.6.6 **bool** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Selected [get]

Selected status of the element

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- C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/[UseCaseEdge.xml.cs](#)

6.4 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser Klassenreferenz

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

Öffentliche Methoden

- [UseCaseGraphVisualiser](#) ()
[UseCaseGraphVisualiser](#) default constructor

Statische öffentliche Attribute

- static readonly DependencyProperty [UseCaseProperty](#)
Binding configuration for a dependency property which is setting UseCaseGraph to display
- static readonly DependencyProperty [ScenarioProperty](#)
Binding configuration for a dependency property which is setting a scenario graph (which will be highlighted by [UseCaseGraphVisualiser](#))
- static readonly DependencyProperty [GraphElementProperty](#)
Binding configuration for a dependency property which is setting the currently selected IGraphElement (INode/IEdge/IGraph) in [UseCaseGraphVisualiser](#)

Propertys

- IGraph [Scenario](#) [get, set]
Dependency property for currently selected scenario graph
- IGraphElement [GraphElement](#) [get, set]
Dependency property for currently selected IGraphElement
- UseCaseGraph [UseCase](#) [get, set]
Dependency property for use case graph that should be visualised

6.4.1 Ausführliche Beschreibung

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

6.4.2 Beschreibung der Konstruktoren und Destruktoren

6.4.2.1 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseGraphVisualiser ()

[UseCaseGraphVisualiser](#) default constructor

6.4.3 Dokumentation der Datenelemente

6.4.3.1 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElementProperty [static]

Initialisierung:

```
= DependencyProperty.Register("GraphElement",
    typeof (IGraphElement), typeof (UseCaseGraphVisualiser))
```

Binding configuration for a dependency property which is setting the currently selected IGraphElement (INode/IEdge/IGraph) in [UseCaseGraphVisualiser](#)

6.4.3.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.ScenarioProperty [static]

Initialisierung:

```
= DependencyProperty.Register("Scenario",
    typeof (IGraph), typeof (UseCaseGraphVisualiser), new PropertyMetadata(
        Scenario_PropertyChanged))
```

Binding configuration for a dependency property which is setting a scenario graph (which will be highlighted by [UseCaseGraphVisualiser](#))

6.4.3.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseProperty [static]

Initialisierung:

```
= DependencyProperty.Register("UseCase",
    typeof (UseCaseGraph), typeof (UseCaseGraphVisualiser), new
    PropertyMetadata(UseCase_PropertyChanged))
```

Binding configuration for a dependency property which is setting UseCaseGraph to display

6.4.4 Dokumentation der Propertys

6.4.4.1 IGraphElement UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElement [get], [set]

Dependency property for currently selected IGraphElement

6.4.4.2 IGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.Scenario [get], [set]

Dependency property for currently selected scenario graph

6.4.4.3 UseCaseGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCase [get], [set]

Dependency property for use case graph that should be visualised

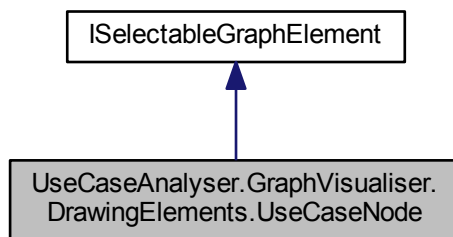
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UseCaseAnalyser.GraphVisualiser/[UseCaseGraphVisualiser.xaml.cs](#)

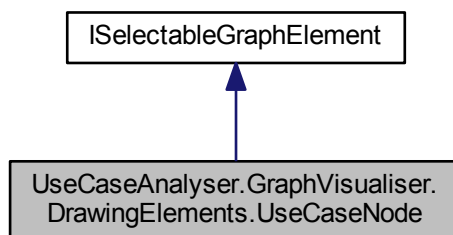
6.5 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode Klassenreferenz

Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



Öffentliche Methoden

- [UseCaseNode](#) (INode node)
*Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in [UseCase](#)↔
[GraphVisualiser](#).*
- void [RenderEdges](#) ([UseCaseNode](#) notRenderNode=null)
Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.
- void [AddEdge](#) ([UseCaseEdge](#) newEdge)
Add an edge to [UseCaseNode](#) if not already contained and nodes is either starting or endpoint of the specified edge.
- int [GetEdgeIndex](#) ([UseCaseEdge](#) sourceEdge)
Return index of specified edge corresponding to its DockedStatus.
- int [GetCountOfEdges](#) ([UseCaseEdge](#) sourceEdge)
Counts the amount of edges in depending of the docking status
- void [SetDrawingBrush](#) (IEnumerable< IEdge > toColorEdges, Brush newBrush)
Color for specific scenario will be set
- void [Select](#) ()
Select this element (visualised by glowing)
- void [Unselect](#) ()
Unselect this element (remove glow effect)

- void [ChangeSelection](#) ()
Switch selection status of this element

Propertys

- INode [Node](#) [get]
Node property for GraphFrameworks INode element which is wrapped by this class.
- bool [Selected](#) [get]
Property to check if [UseCaseNode](#) is marked as selected
- IGraphElement [CurrentElement](#) [get]
Reference to the element in the Graph

6.5.1 Ausführliche Beschreibung

Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

6.5.2 Beschreibung der Konstruktoren und Destruktoren

6.5.2.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.UseCaseNode (INode node)

Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in [UseCase↔GraphVisualiser](#).

Parameter

<i>node</i>	INode object that will be wrapped by UseCaseNode
-------------	--

6.5.3 Dokumentation der Elementfunktionen

6.5.3.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.AddEdge (UseCaseEdge newEdge)

Add an edge to [UseCaseNode](#) if not already contained and nodes is either starting or endpoint of the specified edge.

Parameter

<i>newEdge</i>	UseCaseEdge that should be added to the UseCaseNode
----------------	---

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



6.5.3.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.ChangeSelection ()

Switch selection status of this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.5.3.3 `int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetCountOfEdges (UseCaseEdge
sourceEdge)`

Counts the amount of edges in depending of the docking status

Parameter

<i>sourceEdge</i>	Elements will be counted by the position of this element
-------------------	--

Rückgabe

amount of Edges at the same docking status of this node

6.5.3.4 `int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetEdgeIndex (UseCaseEdge sourceEdge)`

Return index of specified edge corresponding to its DockedStatus.

Parameter

<i>sourceEdge</i>	Edge for determine index.
-------------------	---------------------------

Rückgabe

Number of index.

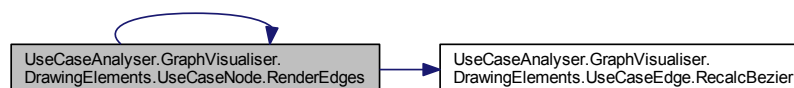
6.5.3.5 `void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.RenderEdges (UseCaseNode notRenderNode = null)`

Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.

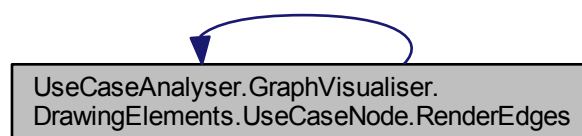
Parameter

<i>notRenderNode</i>	Optional parameter for use case node which prevents rendering of specified node's edges.
----------------------	--

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



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



6.5.3.6 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Select ()

Select this element (visualised by glowing)

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.5.3.7 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.SetDrawingBrush (IEnumerable< IEdge > toColorEdges, Brush newBrush)

Color for specific scenario will be set

Parameter

<i>toColorEdges</i>	List of Edges which will be colored
<i>newBrush</i>	Brush which will be used to highlite the specific scenario

6.5.3.8 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Unselect ()

Unselect this element (remove glow effect)

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.5.4 Dokumentation der Propertys

6.5.4.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.CurrentElement [get]

Reference to the element in the Graph

6.5.4.2 INode UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Node [get]

Node property for GraphFrameworks INode element which is wrapped by this class.

6.5.4.3 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Selected [get]

Property to check if [UseCaseNode](#) is marked as selected

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Kapitel 7

Datei-Dokumentation

7.1 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/CappedLine.cs-Dateireferenz

Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine](#)

Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-asp.aspx>

Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

7.2 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/ISelectableGraphElement.cs-Dateireferenz

Klassen

- interface [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#)

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

7.3 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/UseCaseEdge.xaml.cs-Dateireferenz

Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#)
Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

7.4 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/UseCaseNode.xaml.cs-Dateireferenz

Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#)
Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

7.5 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/Properties/AssemblyInfo.cs-Dateireferenz

7.6 C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/UseCaseAnalyser.GraphVisualiser/UseCaseGraphVisualiser.xaml.cs-Dateireferenz

Klassen

- class [UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser](#)
Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser](#)

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