JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/ListElement.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-files/index-1.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/simplenlg/framework/LexicalCategory.html)
* [Next Class](http://docs.google.com/simplenlg/framework/NLGElement.html)
* [Frames](http://docs.google.com/index.html?simplenlg/framework/ListElement.html)
* [No Frames](http://docs.google.com/ListElement.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
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simplenlg.framework

## Class ListElement

* java.lang.Object
  + [simplenlg.framework.NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)
    - simplenlg.framework.ListElement
* public class ListElement  
  extends [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)  
  ListElement is used to define elements that can be grouped together and treated in a similar manner. The list element itself adds no additional meaning to the realisation. For example, the syntax processor takes a phrase element and produces a list element containing inflected word elements. Phrase elements only have meaning within the syntax processing while the morphology processor (the next in the sequence) needs to work with inflected words. Using the list element helps to keep the inflected word elements together.  
  There is no sorting within the list element and components are added in the order they are given.Version: 4.0 Author: D. Westwater, University of Aberdeen.

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [**ListElement**](http://docs.google.com/simplenlg/framework/ListElement.html#ListElement())() Creates a new list element with no components. |
| * + [**ListElement**](http://docs.google.com/simplenlg/framework/ListElement.html#ListElement(java.util.List))(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> components) Creates a new list element containing the given components. |
| * + [**ListElement**](http://docs.google.com/simplenlg/framework/ListElement.html#ListElement(simplenlg.framework.NLGElement))([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) newComponent) Creates a new list element containing the given component. |

### Method SummaryMethods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [**addComponent**](http://docs.google.com/simplenlg/framework/ListElement.html#addComponent(simplenlg.framework.NLGElement))([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) newComponent) Adds the given component to the list element. |
| * + void | * + [**addComponents**](http://docs.google.com/simplenlg/framework/ListElement.html#addComponents(java.util.List))(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> newComponents) Adds the given components to the list element. |
| * + java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> | * + [**getChildren**](http://docs.google.com/simplenlg/framework/ListElement.html#getChildren())() Retrieves the children for this element. |
| * + [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) | * + [**getFirst**](http://docs.google.com/simplenlg/framework/ListElement.html#getFirst())() Retrieves the first component in the list. |
| * + java.lang.String | * + [**printTree**](http://docs.google.com/simplenlg/framework/ListElement.html#printTree(java.lang.String))(java.lang.String indent) |
| * + void | * + [**setComponents**](http://docs.google.com/simplenlg/framework/ListElement.html#setComponents(java.util.List))(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> newComponents) Replaces the current components in the list element with the given list. |
| * + int | * + [**size**](http://docs.google.com/simplenlg/framework/ListElement.html#size())() Retrieves the number of components in this list element. |
| * + java.lang.String | * + [**toString**](http://docs.google.com/simplenlg/framework/ListElement.html#toString())() |

### Methods inherited from class simplenlg.framework.[**NLGElement**](http://docs.google.com/simplenlg/framework/NLGElement.html)[clearAllFeatures](http://docs.google.com/simplenlg/framework/NLGElement.html#clearAllFeatures()), [equals](http://docs.google.com/simplenlg/framework/NLGElement.html#equals(java.lang.Object)), [equals](http://docs.google.com/simplenlg/framework/NLGElement.html#equals(java.lang.String)), [getAllFeatureNames](http://docs.google.com/simplenlg/framework/NLGElement.html#getAllFeatureNames()), [getAllFeatures](http://docs.google.com/simplenlg/framework/NLGElement.html#getAllFeatures()), [getCategory](http://docs.google.com/simplenlg/framework/NLGElement.html#getCategory()), [getFactory](http://docs.google.com/simplenlg/framework/NLGElement.html#getFactory()), [getFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeature(java.lang.String)), [getFeatureAsBoolean](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsBoolean(java.lang.String)), [getFeatureAsDouble](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsDouble(java.lang.String)), [getFeatureAsElement](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsElement(java.lang.String)), [getFeatureAsElementList](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsElementList(java.lang.String)), [getFeatureAsFloat](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsFloat(java.lang.String)), [getFeatureAsInteger](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsInteger(java.lang.String)), [getFeatureAsList](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsList(java.lang.String)), [getFeatureAsLong](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsLong(java.lang.String)), [getFeatureAsString](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsString(java.lang.String)), [getFeatureAsStringList](http://docs.google.com/simplenlg/framework/NLGElement.html#getFeatureAsStringList(java.lang.String)), [getParent](http://docs.google.com/simplenlg/framework/NLGElement.html#getParent()), [getRealisation](http://docs.google.com/simplenlg/framework/NLGElement.html#getRealisation()), [getTense](http://docs.google.com/simplenlg/framework/NLGElement.html#getTense()), [hasFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#hasFeature(java.lang.String)), [isA](http://docs.google.com/simplenlg/framework/NLGElement.html#isA(simplenlg.framework.ElementCategory)), [isNegated](http://docs.google.com/simplenlg/framework/NLGElement.html#isNegated()), [isPlural](http://docs.google.com/simplenlg/framework/NLGElement.html#isPlural()), [removeFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#removeFeature(java.lang.String)), [setCategory](http://docs.google.com/simplenlg/framework/NLGElement.html#setCategory(simplenlg.framework.ElementCategory)), [setFactory](http://docs.google.com/simplenlg/framework/NLGElement.html#setFactory(simplenlg.framework.NLGFactory)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20boolean)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20double)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20float)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20int)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20long)), [setFeature](http://docs.google.com/simplenlg/framework/NLGElement.html#setFeature(java.lang.String,%20java.lang.Object)), [setNegated](http://docs.google.com/simplenlg/framework/NLGElement.html#setNegated(boolean)), [setParent](http://docs.google.com/simplenlg/framework/NLGElement.html#setParent(simplenlg.framework.NLGElement)), [setPlural](http://docs.google.com/simplenlg/framework/NLGElement.html#setPlural(boolean)), [setRealisation](http://docs.google.com/simplenlg/framework/NLGElement.html#setRealisation(java.lang.String)), [setTense](http://docs.google.com/simplenlg/framework/NLGElement.html#setTense(simplenlg.features.Tense))

### Methods inherited from class java.lang.ObjectgetClass, hashCode, notify, notifyAll, wait, wait, wait

### Constructor Detail

#### ListElement public ListElement() Creates a new list element with no components.

#### ListElement public ListElement(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> components) Creates a new list element containing the given components.Parameters:components - the initial components for this list element.

#### ListElement public ListElement([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) newComponent) Creates a new list element containing the given component.Parameters:newComponent - the initial component for this list element.

### Method Detail

#### getChildren public java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> getChildren() **Description copied from class:**[**NLGElement**](http://docs.google.com/simplenlg/framework/NLGElement.html#getChildren()) Retrieves the children for this element. This method needs to be overridden for each specific type of element. Each type of element will have its own way of determining the child elements.**Specified by:** [getChildren](http://docs.google.com/simplenlg/framework/NLGElement.html#getChildren()) in class [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) Returns:a List of NLGElements representing the children of this element.

#### addComponent public void addComponent([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) newComponent) Adds the given component to the list element.Parameters:newComponent - the NLGElement component to be added.

#### addComponents public void addComponents(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> newComponents) Adds the given components to the list element.Parameters:newComponents - a List of NLGElements to be added.

#### setComponents public void setComponents(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> newComponents) Replaces the current components in the list element with the given list.Parameters:newComponents - a List of NLGElements to be used as the components.

#### toString public java.lang.String toString()**Overrides:** [toString](http://docs.google.com/simplenlg/framework/NLGElement.html#toString()) in class [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)

#### printTree public java.lang.String printTree(java.lang.String indent)**Overrides:** [printTree](http://docs.google.com/simplenlg/framework/NLGElement.html#printTree(java.lang.String)) in class [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)

#### size public int size() Retrieves the number of components in this list element.Returns:the number of components.

#### getFirst public [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) getFirst() Retrieves the first component in the list.Returns:the NLGElement at the top of the list.

* [Overview](http://docs.google.com/overview-summary.html)
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* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-files/index-1.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/simplenlg/framework/LexicalCategory.html)
* [Next Class](http://docs.google.com/simplenlg/framework/NLGElement.html)
* [Frames](http://docs.google.com/index.html?simplenlg/framework/ListElement.html)
* [No Frames](http://docs.google.com/ListElement.html)
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