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/DocumentElement.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/DocumentCategory.html)
* [Next Class](http://docs.google.com/simplenlg/framework/ElementCategory.html)
* [Frames](http://docs.google.com/index.html?simplenlg/framework/DocumentElement.html)
* [No Frames](http://docs.google.com/DocumentElement.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
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* Field |
* [Constr](#id.1t3h5sf)|
* [Method](#id.17dp8vu)

simplenlg.framework

## Class DocumentElement

* java.lang.Object
  + [simplenlg.framework.NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)
    - simplenlg.framework.DocumentElement
* public class DocumentElement  
  extends [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)  
  DocumentElement is a convenient extension of the base NLGElement class. It used to define elements that form part of the textual structure (documents, sections, paragraphs, sentences, lists). It essentially operates as the base class with the addition of some convenience methods for getting and setting features specific to this type of element.  
  TextElements can be structured in a tree-like structure where elements can contain child components. These child components can in turn contain other child components and so on. There are restrictions on the type of child components a particular element type can have. These are explained under the DocumentCategory enumeration.  
  Instances of this class can be created through the static create methods in the OrthographyProcessor.Version: 4.0 Author: D. Westwater, University of Aberdeen.

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [**DocumentElement**](http://docs.google.com/simplenlg/framework/DocumentElement.html#DocumentElement())() The blank constructor. |
| * + [**DocumentElement**](http://docs.google.com/simplenlg/framework/DocumentElement.html#DocumentElement(simplenlg.framework.DocumentCategory,%20java.lang.String))([DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) category, java.lang.String textTitle) Creates a new DocumentElement with the given category and title. |

### Method SummaryMethods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [**addComponent**](http://docs.google.com/simplenlg/framework/DocumentElement.html#addComponent(simplenlg.framework.NLGElement))([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) element) Add a single child component to the current list of child components. |
| * + void | * + [**addComponents**](http://docs.google.com/simplenlg/framework/DocumentElement.html#addComponents(java.util.List))(java.util.List<?> textComponents) Adds a collection of NLGElements to the list of child components. |
| * + void | * + [**clearComponents**](http://docs.google.com/simplenlg/framework/DocumentElement.html#clearComponents())() Removes all the child components from this element. |
| * + java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> | * + [**getChildren**](http://docs.google.com/simplenlg/framework/DocumentElement.html#getChildren())() Child elements of a DocumentElement are the components. |
| * + java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> | * + [**getComponents**](http://docs.google.com/simplenlg/framework/DocumentElement.html#getComponents())() Retrieves the child components of this element. |
| * + java.lang.String | * + [**getTitle**](http://docs.google.com/simplenlg/framework/DocumentElement.html#getTitle())() Retrieves the title of this element. |
| * + java.lang.String | * + [**printTree**](http://docs.google.com/simplenlg/framework/DocumentElement.html#printTree(java.lang.String))(java.lang.String indent) |
| * + boolean | * + [**removeComponent**](http://docs.google.com/simplenlg/framework/DocumentElement.html#removeComponent(simplenlg.framework.NLGElement))([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) textComponent) Removes the specified component from the list of child components. |
| * + void | * + [**setComponents**](http://docs.google.com/simplenlg/framework/DocumentElement.html#setComponents(java.util.List))(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> components) Replaces the existing components with the supplied list of components. |
| * + void | * + [**setTitle**](http://docs.google.com/simplenlg/framework/DocumentElement.html#setTitle(java.lang.String))(java.lang.String textTitle) Sets the title of this element. |

### 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)), [toString](http://docs.google.com/simplenlg/framework/NLGElement.html#toString())

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

### Constructor Detail

#### DocumentElement public DocumentElement() The blank constructor. Using this constructor will require manual setting of the element's category and title.

#### DocumentElement public DocumentElement([DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) category, java.lang.String textTitle) Creates a new DocumentElement with the given category and title.Parameters:category - the category for this element.textTitle - the title of this element, predominantly used with DOCUMENT and SECTION types.

### Method Detail

#### setTitle public void setTitle(java.lang.String textTitle) Sets the title of this element. Titles are specifically used with documents (the document name) and sections (headings).Parameters:textTitle - the new title for this element.

#### getTitle public java.lang.String getTitle() Retrieves the title of this element.Returns:the title of this element as a string.

#### getComponents public java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> getComponents() Retrieves the child components of this element.Returns:a List of NLGElements representing the child components.

#### addComponent public void addComponent([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) element) Add a single child component to the current list of child components. If there are no existing child components a new list is created. Note that there are restrictions on which child types can be added to which parent types. Intermediate nodes are added if necessary; eg, if a sentence is added to a document, the sentence will be embedded in a paragraph before it is added See DocumentCategory for further information.Parameters:element - the NLGElement to be added. If this is NULL the method does nothing.

#### addComponents public void addComponents(java.util.List<?> textComponents) Adds a collection of NLGElements to the list of child components. If there are no existing child components, then a new list is created. As with addComponents(...) only legitimate child types are added to the list.Parameters:textComponents - the List of NLGElements to be added. If this is NULL the method does nothing.

#### removeComponent public boolean removeComponent([NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) textComponent) Removes the specified component from the list of child components.Parameters:textComponent - the component to be removed. Returns:true if the element was removed, or false if the element did not exist, there is no component list or the the given component to remove is NULL.

#### clearComponents public void clearComponents() Removes all the child components from this element.

#### getChildren public java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> getChildren() Child elements of a DocumentElement are the components. This method is the same as calling getComponents().**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.

* + - setComponents  
      public void setComponents(java.util.List<[NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)> components)  
      Replaces the existing components with the supplied list of components. This is identical to calling:  
        
       clearComponents();  
       addComponents(components);  
       Parameters:components -

#### 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)

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/DocumentElement.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/DocumentCategory.html)
* [Next Class](http://docs.google.com/simplenlg/framework/ElementCategory.html)
* [Frames](http://docs.google.com/index.html?simplenlg/framework/DocumentElement.html)
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