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/NPPhraseSpec.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/phrasespec/AdvPhraseSpec.html)
* [Next Class](http://docs.google.com/simplenlg/phrasespec/PPPhraseSpec.html)
* [Frames](http://docs.google.com/index.html?simplenlg/phrasespec/NPPhraseSpec.html)
* [No Frames](http://docs.google.com/NPPhraseSpec.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
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* Detail:
* Field |
* [Constr](#id.4d34og8)|
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simplenlg.phrasespec

## Class NPPhraseSpec

* java.lang.Object
  + [simplenlg.framework.NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html)
    - [simplenlg.framework.PhraseElement](http://docs.google.com/simplenlg/framework/PhraseElement.html)
      * simplenlg.phrasespec.NPPhraseSpec
* public class NPPhraseSpec  
  extends [PhraseElement](http://docs.google.com/simplenlg/framework/PhraseElement.html)
* This class defines a noun phrase. It is essentially a wrapper around the PhraseElement class, with methods for setting common constituents such as specifier. For example, the setNoun method in this class sets the head of the element to be the specified noun From an API perspective, this class is a simplified version of the NPPhraseSpec class in simplenlg V3. It provides an alternative way for creating syntactic structures, compared to directly manipulating a V4 PhraseElement. Methods are provided for setting and getting the following constituents:
  + Specifier (eg, "the")
  + PreModifier (eg, "green")
  + Noun (eg, "apple")
  + PostModifier (eg, "in the shop")
* NOTE: The setModifier method will attempt to automatically determine whether a modifier should be expressed as a PreModifier, or PostModifier NOTE: Specifiers are currently pretty basic, this needs more development Features (such as number) must be accessed via the setFeature and getFeature methods (inherited from NLGElement). Features which are often set on NPPhraseSpec include
  + Number (eg, "the apple" vs "the apples")
  + Possessive (eg, "John" vs "John's")
  + Pronominal (eg, "the apple" vs "it")

NPPhraseSpec are produced by the createNounPhrase method of a PhraseFactory  
Version: 4.1 Author: E. Reiter, University of Aberdeen.

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [**NPPhraseSpec**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#NPPhraseSpec(simplenlg.framework.NLGFactory))([NLGFactory](http://docs.google.com/simplenlg/framework/NLGFactory.html) phraseFactory) |

### Method SummaryMethods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [**addModifier**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#addModifier(java.lang.Object))(java.lang.Object modifier) Add a modifier to an NP Use heuristics to decide where it goes |
| * + [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) | * + [**getDeterminer**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#getDeterminer())() getDeterminer - Convenience method for when a person tries to get a determiner (e.g. |
| * + [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) | * + [**getNoun**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#getNoun())() |
| * + [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) | * + [**getSpecifier**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#getSpecifier())() |
| * + void | * + [**setDeterminer**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#setDeterminer(java.lang.Object))(java.lang.Object determiner) setDeterminer - Convenience method for when a person tries to set a determiner (e.g. |
| * + void | * + [**setHead**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#setHead(java.lang.Object))(java.lang.Object newHead) Sets the head, or main component, of this current phrase. |
| * + void | * + [**setNoun**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#setNoun(java.lang.Object))(java.lang.Object noun) sets the noun (head) of a noun phrase |
| * + void | * + [**setSpecifier**](http://docs.google.com/simplenlg/phrasespec/NPPhraseSpec.html#setSpecifier(java.lang.Object))(java.lang.Object specifier) sets the specifier of a noun phrase. |

### Methods inherited from class simplenlg.framework.[**PhraseElement**](http://docs.google.com/simplenlg/framework/PhraseElement.html)[addComplement](http://docs.google.com/simplenlg/framework/PhraseElement.html#addComplement(simplenlg.framework.NLGElement)), [addComplement](http://docs.google.com/simplenlg/framework/PhraseElement.html#addComplement(java.lang.String)), [addFrontModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addFrontModifier(simplenlg.framework.NLGElement)), [addFrontModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addFrontModifier(java.lang.String)), [addPostModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addPostModifier(simplenlg.framework.NLGElement)), [addPostModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addPostModifier(java.lang.String)), [addPreModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addPreModifier(simplenlg.framework.NLGElement)), [addPreModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addPreModifier(java.lang.String)), [clearComplements](http://docs.google.com/simplenlg/framework/PhraseElement.html#clearComplements()), [getChildren](http://docs.google.com/simplenlg/framework/PhraseElement.html#getChildren()), [getFrontModifiers](http://docs.google.com/simplenlg/framework/PhraseElement.html#getFrontModifiers()), [getHead](http://docs.google.com/simplenlg/framework/PhraseElement.html#getHead()), [getPostModifiers](http://docs.google.com/simplenlg/framework/PhraseElement.html#getPostModifiers()), [getPreModifiers](http://docs.google.com/simplenlg/framework/PhraseElement.html#getPreModifiers()), [printTree](http://docs.google.com/simplenlg/framework/PhraseElement.html#printTree(java.lang.String)), [setComplement](http://docs.google.com/simplenlg/framework/PhraseElement.html#setComplement(simplenlg.framework.NLGElement)), [setComplement](http://docs.google.com/simplenlg/framework/PhraseElement.html#setComplement(java.lang.String)), [setFrontModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setFrontModifier(simplenlg.framework.NLGElement)), [setFrontModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setFrontModifier(java.lang.String)), [setPostModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setPostModifier(simplenlg.framework.NLGElement)), [setPostModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setPostModifier(java.lang.String)), [setPreModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setPreModifier(simplenlg.framework.NLGElement)), [setPreModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#setPreModifier(java.lang.String))

### 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

#### NPPhraseSpec public NPPhraseSpec([NLGFactory](http://docs.google.com/simplenlg/framework/NLGFactory.html) phraseFactory)

### Method Detail

#### setHead public void setHead(java.lang.Object newHead) **Description copied from class:**[**PhraseElement**](http://docs.google.com/simplenlg/framework/PhraseElement.html#setHead(java.lang.Object)) Sets the head, or main component, of this current phrase. For example, the head for a verb phrase should be a verb while the head of a noun phrase should be a noun. Strings are converted to StringElements. If null is passed in as the new head then the head feature is removed.**Overrides:** [setHead](http://docs.google.com/simplenlg/framework/PhraseElement.html#setHead(java.lang.Object)) in class [PhraseElement](http://docs.google.com/simplenlg/framework/PhraseElement.html) Parameters:newHead - the new value for the head of this phrase.

#### setNoun public void setNoun(java.lang.Object noun) sets the noun (head) of a noun phraseParameters:noun -

#### getNoun public [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) getNoun()Returns:noun (head) of noun phrase

#### setDeterminer public void setDeterminer(java.lang.Object determiner) setDeterminer - Convenience method for when a person tries to set a determiner (e.g. "the") to a NPPhraseSpec.**Overrides:** [setDeterminer](http://docs.google.com/simplenlg/framework/PhraseElement.html#setDeterminer(java.lang.Object)) in class [PhraseElement](http://docs.google.com/simplenlg/framework/PhraseElement.html) Parameters:determiner - the new determiner for the phrase.

#### getDeterminer public [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) getDeterminer() getDeterminer - Convenience method for when a person tries to get a determiner (e.g. "the") from a NPPhraseSpec.

#### setSpecifier public void setSpecifier(java.lang.Object specifier) sets the specifier of a noun phrase. Can be determiner (eg "the"), possessive (eg, "John's")Parameters:specifier -

#### getSpecifier public [NLGElement](http://docs.google.com/simplenlg/framework/NLGElement.html) getSpecifier()Returns:specifier (eg, determiner) of noun phrase

#### addModifier public void addModifier(java.lang.Object modifier) Add a modifier to an NP Use heuristics to decide where it goes**Overrides:** [addModifier](http://docs.google.com/simplenlg/framework/PhraseElement.html#addModifier(java.lang.Object)) in class [PhraseElement](http://docs.google.com/simplenlg/framework/PhraseElement.html) Parameters:modifier -

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/NPPhraseSpec.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
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* [Frames](http://docs.google.com/index.html?simplenlg/phrasespec/NPPhraseSpec.html)
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