| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Diagnostic.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) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/tools/Diagnostic.Kind.html) | [**FRAMES**](http://docs.google.com/index.html?javax/tools/Diagnostic.html)    [**NO FRAMES**](http://docs.google.com/Diagnostic.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#4d34og8) |

## **javax.tools**

Interface Diagnostic<S>

**Type Parameters:**S - the type of source object used by this diagnostic

public interface **Diagnostic<S>**

Interface for diagnostics from tools. A diagnostic usually reports a problem at a specific position in a source file. However, not all diagnostics are associated with a position or a file.

A position is a zero-based character offset from the beginning of a file. Negative values (except [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)) are not valid positions.

Line and column numbers begin at 1. Negative values (except [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)) and 0 are not valid line or column numbers.

**Since:** 1.6

| **Nested Class Summary** | |
| --- | --- |
| static class | [**Diagnostic.Kind**](http://docs.google.com/javax/tools/Diagnostic.Kind.html)            Kinds of diagnostics, for example, error or warning. |

| **Field Summary** | |
| --- | --- |
| static long | [**NOPOS**](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)            Used to signal that no position is available. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getCode**](http://docs.google.com/javax/tools/Diagnostic.html#getCode())()            Gets a diagnostic code indicating the type of diagnostic. |
| long | [**getColumnNumber**](http://docs.google.com/javax/tools/Diagnostic.html#getColumnNumber())()            Gets the column number of the character offset returned by [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()). |
| long | [**getEndPosition**](http://docs.google.com/javax/tools/Diagnostic.html#getEndPosition())()            Gets the character offset from the beginning of the file associated with this diagnostic that indicates the end of the problem. |
| [Diagnostic.Kind](http://docs.google.com/javax/tools/Diagnostic.Kind.html) | [**getKind**](http://docs.google.com/javax/tools/Diagnostic.html#getKind())()            Gets the kind of this diagnostic, for example, error or warning. |
| long | [**getLineNumber**](http://docs.google.com/javax/tools/Diagnostic.html#getLineNumber())()            Gets the line number of the character offset returned by [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()). |
| [String](http://docs.google.com/java/lang/String.html) | [**getMessage**](http://docs.google.com/javax/tools/Diagnostic.html#getMessage(java.util.Locale))([Locale](http://docs.google.com/java/util/Locale.html) locale)            Gets a localized message for the given locale. |
| long | [**getPosition**](http://docs.google.com/javax/tools/Diagnostic.html#getPosition())()            Gets a character offset from the beginning of the source object associated with this diagnostic that indicates the location of the problem. |
| [S](http://docs.google.com/javax/tools/Diagnostic.html) | [**getSource**](http://docs.google.com/javax/tools/Diagnostic.html#getSource())()            Gets the source object associated with this diagnostic. |
| long | [**getStartPosition**](http://docs.google.com/javax/tools/Diagnostic.html#getStartPosition())()            Gets the character offset from the beginning of the file associated with this diagnostic that indicates the start of the problem. |

| **Field Detail** |
| --- |

### NOPOS

static final long **NOPOS**

Used to signal that no position is available.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.tools.Diagnostic.NOPOS)

| **Method Detail** |
| --- |

### getKind

[Diagnostic.Kind](http://docs.google.com/javax/tools/Diagnostic.Kind.html) **getKind**()

Gets the kind of this diagnostic, for example, error or warning.

**Returns:**the kind of this diagnostic

### getSource

[S](http://docs.google.com/javax/tools/Diagnostic.html) **getSource**()

Gets the source object associated with this diagnostic.

**Returns:**the source object associated with this diagnostic. null if no source object is associated with the diagnostic.

### getPosition

long **getPosition**()

Gets a character offset from the beginning of the source object associated with this diagnostic that indicates the location of the problem. In addition, the following must be true:

getStartPostion() <= getPosition()

getPosition() <= getEndPosition()

**Returns:**character offset from beginning of source; [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS) if [getSource()](http://docs.google.com/javax/tools/Diagnostic.html#getSource()) would return null or if no location is suitable

### getStartPosition

long **getStartPosition**()

Gets the character offset from the beginning of the file associated with this diagnostic that indicates the start of the problem.

**Returns:**offset from beginning of file; [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS) if and only if [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()) returns [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)

### getEndPosition

long **getEndPosition**()

Gets the character offset from the beginning of the file associated with this diagnostic that indicates the end of the problem.

**Returns:**offset from beginning of file; [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS) if and only if [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()) returns [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)

### getLineNumber

long **getLineNumber**()

Gets the line number of the character offset returned by [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()).

**Returns:**a line number or [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS) if and only if [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()) returns [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)

### getColumnNumber

long **getColumnNumber**()

Gets the column number of the character offset returned by [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()).

**Returns:**a column number or [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS) if and only if [getPosition()](http://docs.google.com/javax/tools/Diagnostic.html#getPosition()) returns [NOPOS](http://docs.google.com/javax/tools/Diagnostic.html#NOPOS)

### getCode

[String](http://docs.google.com/java/lang/String.html) **getCode**()

Gets a diagnostic code indicating the type of diagnostic. The code is implementation-dependent and might be null.

**Returns:**a diagnostic code

### getMessage

[String](http://docs.google.com/java/lang/String.html) **getMessage**([Locale](http://docs.google.com/java/util/Locale.html) locale)

Gets a localized message for the given locale. The actual message is implementation-dependent. If the locale is null use the default locale.

**Parameters:**locale - a locale; might be null **Returns:**a localized message

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Diagnostic.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) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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