

http://www-labs.det.uvigo.es/documentation/LRO/jaxp/jaxp-1_3-html/index.html

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for examples for DOM

<http://www.java-tips.org/org.w3c.dom/>

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example for some area

<http://www.cafeconleche.org/books/xmljava/chapters/index.html>

Java API for XML Processing (JAXP) 1.4

JAXP has SIX Major parts

1. SAX, 2. DOM, 3. TrAX, 4. XPath, 5. Validation, 6. StAX

Packages

[javax.xml](#)

Defines core XML constants and functionality from the XML specifications.

[javax.xml.](#)

[datatype](#)

XML/Java Type Mappings.

since JAXP 1.3

some SAX example

<http://www.java-tips.org/java-se-tips/org.xml.sax/>

[javax.xml.](#)

[namespace](#)

XML Namespace processing.

next round, please set the factory SYSTEM property in every example

[javax.xml.parsers](#)

Provides classes allowing the processing of XML documents.

[javax.xml.stream](#)

[javax.xml.stream.](#)

[events](#)

it is Introduced by SUN

1st round - SUN Material

2nd round - Deleted some of page

3rd round - deleted sun material itself
finished on 22 - Nov - 08

4th round - 24 Nov 2008

[javax.xml.stream.](#)

[util](#)

[javax.xml.](#)

[transform](#)

This package defines the generic APIs for processing transformation instructions, and performing a transformation from source to result. 11

[javax.xml.](#)

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This package implements DOM-specific transformation APIs. 3

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This package implements stream- and URI- specific transformation APIs. 2

[javax.xml.](#)

[validation](#)

This package provides an API for validation of XML documents.

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Package javax.xml.transform

This package defines the generic APIs for processing transformation instructions, and performing a transformation from source to result.

it has 11 classess/interfaces

See:

[Description](#)

Source can be XML only, the XML can be in any form like sax event, dom tree.

Interface Summary

ErrorListener	To provide customized error handling, implement this interface and use the <code>setErrorListener</code> method to register an instance of the implementation with the Transformer .
Result	An object that implements this interface contains <u>the information needed to build a transformation result tree.</u>
Source	An object that implements this interface contains the information needed to act as source input (XML source or transformation instructions). i.e XML file or XSL file
SourceLocator	This interface is primarily for the purposes of reporting <u>where an error occurred in the XML source or transformation instructions.</u>
Templates	An object that implements this interface is the <u>runtime representation of processed transformation instructions.</u> that is XSL file
URIResolver	An object that implements this interface that can be called by the processor to turn a URI used in <code>document()</code> , <code>xsl:import</code> , or <code>xsl:include</code> into a Source object.

so it is used only with XSL (Template object)

Class Summary

OutputKeys	Provides <u>string constants</u> that can be used to set output properties for a Transformer , or to retrieve output properties from a Transformer or Templates object.
Transformer	An instance of this abstract class can transform a <u>source tree into a result tree.</u>
TransformerFactory	A TransformerFactory instance can be used to create Transformer and Templates objects.

Exception Summary

TransformerConfigurationException	Indicates a serious configuration error.
---	--

[TransformerException](#)

This class specifies an exceptional condition that occurred during the transformation process.

Error Summary

[TransformerFactoryConfigurationError](#)

Thrown when a problem with configuration with the Transformer Factories exists.

Package javax.xml.transform Description

This package defines the generic APIs for processing transformation instructions, and performing a transformation from source to result. These interfaces have no dependencies on SAX or the DOM standard, and try to make as few assumptions as possible about the details of the source and result of a transformation. It achieves this by defining Source and Result interfaces.

To define concrete classes for the user, the API defines specializations of the interfaces found at the root level. These interfaces are found in javax.xml.transform.sax, javax.xml.transform.dom, and javax.xml.transform.stream.

Creating Objects

The API allows a concrete TransformerFactory object to be created from the static function TransformerFactory.newInstance().

Specification of Inputs and Outputs

This API defines two interface objects called Source and Result. In order to pass Source and Result objects to the interfaces, concrete classes must be used. Three concrete representations are defined for each of these objects: StreamSource and StreamResult, SAXSource and SAXResult, and DOMSource and DOMResult. Each of these objects defines a FEATURE string (which is in the form of a URL), which can be passed into TransformerFactory.getFeature(java.lang.String) to see if the given type of Source or Result object is supported. For instance, to test if a DOMSource and a StreamResult is supported, you can apply the following test.

```
TransformerFactory tfactory = TransformerFactory.newInstance();
if (tfactory.getFeature(DOMSource.FEATURE) && tfactory.getFeature(StreamResult.FEATURE)) {
    ...
}
```

Qualified Name Representation

[Namespaces](#) present something of a problem area when dealing with XML objects. Qualified Names appear in XML markup as prefixed names. But the prefixes themselves do not hold identity. Rather, it is the URIs that they contextually map to that hold the identity. Therefore, when passing a Qualified Name like "xyz:foo" among Java programs, one must provide a means to map "xyz" to a namespace.

One solution has been to create a "QName" object that holds the namespace URI, as well as the prefix and local name, but this is not always an optimal solution, as when, for example, you want to use unique strings as keys in a dictionary object. Not having a string representation also makes it difficult to specify a namespaced identity outside the context of an XML document.

In order to pass namespaced values to transformations, for instance when setting a property or a parameter on a [Transformer](#) object, this specification defines that a String "qname" object parameter be passed as two part string, the namespace URI enclosed in curly braces ({ }), followed by the local name. If the qname has a null URI, then the String object only contains the local name. An application can safely check for a non-null URI by testing to see if the first character of the name is a '{' character.

For example, if a URI and local name were obtained from an element defined with `<xyz:foo xmlns:xyz="http://xyz.foo.com/yada/baz.html"/>`, then the Qualified Name would be "{http://xyz.foo.com/yada/baz.html}foo". Note that the prefix is lost.

Result Tree Serialization

Serialization of the result tree to a stream can be controlled with the [Transformer.setOutputProperties\(java.util.Properties\)](#) and the [Transformer.setOutputProperty\(java.lang.String, java.lang.String\)](#) methods. These properties only apply to stream results, they have no effect when the result is a [DOM tree](#) or [SAX event stream](#).

Strings that match the [XSLT specification for xsl:output attributes](#) can be referenced from the [OutputKeys](#) class. Other strings can be specified as well. If the transformer does not recognize an output key, a [IllegalArgumentException](#) is thrown, unless the key name is [namespace qualified](#). Output key names that are namespace qualified are always allowed, although they may be ignored by some implementations.

If all that is desired is the simple identity transformation of a source to a result, then [TransformerFactory](#) provides a [TransformerFactory.newTransformer\(\)](#) method with no arguments. This method creates a Transformer that effectively copies the source to the result. This method may be used to create a DOM from SAX events or to create an XML or HTML stream from a DOM or SAX events.

Exceptions and Error Reporting

The transformation API throw three types of specialized exceptions. A [TransformerFactoryConfigurationError](#) is parallel to the [FactoryConfigurationError](#), and is thrown when a configuration problem with the TransformerFactory exists. This error will typically be thrown when

Oh ✓ Oh

the transformation factory class specified with the "javax.xml.transform.TransformerFactory" system property cannot be found or instantiated.

A [TransformerConfigurationException](#) may be thrown if for any reason a Transformer can not be created. A TransformerConfigurationException may be thrown if there is a syntax error in the transformation instructions, for example when [TransformerFactory.newTransformer\(javax.xml.transform.Source\)](#) is called.

[TransformerException](#) is a general exception that occurs during the course of a transformation. A transformer exception may wrap another exception, and if any of the [TransformerException.printStackTrace\(\)](#) methods are called on it, it will produce a list of stack dumps, starting from the most recent. The transformer exception also provides a [SourceLocator](#) object which indicates where in the source tree or transformation instructions the error occurred. [TransformerException.getMessageAndLocation\(\)](#) may be called to get an error message with location info, and [TransformerException.getLocationAsString\(\)](#) may be called to get just the location string.

Transformation warnings and errors are sent to an [ErrorListener](#), at which point the application may decide to report the error or warning, and may decide to throw an Exception for a non-fatal error. The ErrorListener may be set via [TransformerFactory.setErrorListener\(javax.xml.transform.ErrorListener\)](#) for reporting errors that have to do with syntax errors in the transformation instructions, or via [Transformer.setErrorListener\(javax.xml.transform.ErrorListener\)](#) to report errors that occur during the transformation. The ErrorListener on both objects will always be valid and non-null, whether set by the application or a default implementation provided by the processor. The default implementation provided by the processor will report all warnings and errors to System.err and does not throw any Exceptions. Applications are *strongly* encouraged to register and use ErrorListeners that insure proper behavior for warnings and errors.

Resolution of URIs within a transformation

The API provides a way for URIs referenced from within the stylesheet instructions or within the transformation to be resolved by the calling application. This can be done by creating a class that implements the [URIResolver](#) interface, with its one method, [URIResolver.resolve\(java.lang.String, java.lang.String\)](#), and use this class to set the URI resolution for the transformation instructions or transformation with [TransformerFactory.setURIResolver\(javax.xml.transform.URIResolver\)](#) or [Transformer.setURIResolver\(javax.xml.transform.URIResolver\)](#). The [URIResolver.resolve](#) method takes two String arguments, the URI found in the stylesheet instructions or built as part of the transformation process, and the base URI against which the first argument will be made absolute if the absolute URI is required. The returned [Source](#) object must be usable by the transformer, as specified in its implemented features.

Package javax.xml.transform.dom

it has 3 classes/ interfaces

This package implements DOM-specific transformation APIs.

See: [Description](#)

This DOM API can be used only if
EITHER ONE IS AS node.

Interface Summary

DOMLocator	Indicates the position of a node in a source DOM, intended primarily for error reporting.
----------------------------	---

Class Summary

DOMResult	Acts as a holder for a transformation result tree in the form of a Document Object Model (DOM) tree.
DOMSource	Acts as a holder for a transformation Source tree in the form of a Document Object Model (DOM) tree.

Package javax.xml.transform.dom Description

get one sample from net

This package implements DOM-specific transformation APIs.

The [DOMSource](#) class allows the client of the implementation of this API to specify a [DOM Node](#) as the source of the input tree. The model of how the Transformer deals with the DOM tree in terms of mismatches with the [XSLT data model](#) or other data models is beyond the scope of this document. Any of the nodes derived from [Node](#) are legal input.

The [DOMResult](#) class allows a [Node](#) to be specified to which result DOM nodes will be appended. If an output node is not specified, the transformer will use [DocumentBuilder.newDocument\(\)](#) to create an output [Document](#) node. If a node is specified, it should be one of the following: [Document](#),

i have skipped to get THROUGH of **SAXTransformerFactory, TransformerHandler and TemplatesHandler.**

i have not find any good material. These 3 are has less number of methods. so, it wont take much time to familiar, once got example or article. SO COOL

Package javax.xml.transform.sax

This package implements SAX2-specific transformation APIs.

See:

[Description](#)

5 classess / interface

Interface Summary	
TemplatesHandler	A SAX ContentHandler that may be used to process SAX parse events (parsing <u>transformation instructions</u>) into a Templates object .
TransformerHandler	A TransformerHandler <u>listens for SAX ContentHandler parse events</u> and transforms them to a Result.

Class Summary	
SAXResult	Acts as an holder for a transformation Result.
SAXSource	Acts as an holder for SAX-style Source.
SAXTransformerFactory	This class extends TransformerFactory to provide SAX-specific factory methods.

Package javax.xml.transform.sax Description

custom classes

This package implements SAX2-specific transformation APIs. It provides classes which allow input from [ContentHandler](#) events, and also classes that produce org.xml.sax.ContentHandler events. It also provides methods to set the input source as an [XMLReader](#), or to use a [InputSource](#) as the source. It also allows the creation of a [XMLFilter](#), which enables transformations to "pull" from other transformations, and lets the transformer to be used polymorphically as an [XMLReader](#).

The [SAXSource](#) class allows the setting of an [XMLReader](#) to be used for "pulling" parse events, and

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it has 2 classes / interfaces

Package javax.xml.transform.stax

Provides for StAX-specific transformation APIs.

See:

[Description](#)

As of now i am **dont** have xslt engine has been implemented this feature


```

logger.info(" StAXResult "+transformerFactory.getFeature(StAXResult.FEATURE));
logger.info(" StAXSource "+transformerFactory.getFeature(StAXSource.FEATURE));
above two statements are return false
        
```

Class Summary	
StAXResult	Acts as a holder for an XML Result in the form of a StAX writer,i.e.
StAXSource	Acts as a holder for an XML Source in the form of a StAX reader,i.e.

Package javax.xml.transform.stax Description

Provides for StAX-specific transformation APIs. TODO: better description(s).

Package Specification

- [JSR 173: Streaming API for XML](#)

Related Documentation

For overviews, tutorials, examples, guides, and tool documentation, please see:

- [TODO: Refer to non-spec documentation](#)
- @see XMLStreamReader
- @see XMLEventReader

Since:
1.6

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Package javax.xml.transform.stream

This package implements stream- and URI- specific transformation APIs.

See:

[Description](#)

it has 2 classes

actually this one have to use if
output be html /text / image

Class Summary

StreamResult	Acts as an holder for a transformation result, which <u>may be XML, plain Text, HTML, or some other form of markup.</u>
StreamSource	Acts as an holder for a transformation Source in the <u>form of a stream of XML markup.</u>

Package javax.xml.transform.stream Description

This package implements stream- and URI- specific transformation APIs.

The [StreamSource](#) class provides methods for specifying `InputStream` input, `Reader` input, and `URL` input in the form of strings. Even if an input stream or reader is specified as the source, [StreamSource.setSystemId\(java.lang.String\)](#) should still be called, so that the transformer can know from where it should resolve relative URIs. The public identifier is always optional: if the application writer includes one, it will be provided as part of the [SourceLocator](#) information.

The [StreamResult](#) class provides methods for specifying `OutputStream`, `Writer`, or an output system ID, as the output of the transformation result.

Normally streams should be used rather than readers or writers, for both the Source and Result, since readers and writers already have the encoding established to and from the internal Unicode format. However, there are times when it is useful to write to a character stream, such as when using a `StringWriter` in order to write to a `String`, or in the case of reading source XML from a `StringReader`.

Overview **Package** **Class** **Use** **Tree** **Deprecated** **Index** **Help**PREV CLASS [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

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javax.xml.transform.dom

Interface DOMLocator

it has 1 method

All Superinterfaces:[SourceLocator](#)this is from TrAX
package itselfpublic interface **DOMLocator**extends [SourceLocator](#)this will come only
when error occurred.

Indicates the position of a node in a source DOM, intended primarily for error reporting. To use a DOMLocator, the receiver of an error must downcast the [SourceLocator](#) object returned by an exception. A [Transformer](#) may use this object for purposes other than error reporting, for instance, to indicate the source node that originated a result node.

Method Summary[Node](#) [getOriginatingNode](#) ()

Return the node where the event occurred.

Methods inherited from interface javax.xml.transform.[SourceLocator](#)[getColumnNumber](#), [getLineNumber](#), [getPublicId](#), [getSystemId](#)**Method Detail****getOriginatingNode**

[Node](#) **getOriginatingNode()**

Return the node where the event occurred.

Returns:

The node that is the location for the event.

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SUMMARY: NESTED FIELD CONSTR METHOD

DETAIL: FIELD CONSTR METHOD

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javax.xml.transform.dom

Class DOMResult

java.lang.Object

└─ javax.xml.transform.dom.DOMResult

it has only 4 methods
 2 - getter / setter for Node
 2 - getter / setter for Sibling Node

it has 5 constructor

All Implemented Interfaces:[Result](#)public class **DOMResult**

extends java.lang.Object

implements [Result](#)Acts as a holder for a transformation result tree in the form of a Document Object Model (DOM) tree.If no output DOM source is set, the transformation will create a Document node as the holder for the result of the transformation, which may be retrieved with [getNode\(\)](#).**Version:**

\$Revision: 1.3 \$, \$Date: 2005/11/03 19:34:24 \$

Author:[Jeff Suttor](#)**Field Summary**

static java. lang.String	<u>FEATURE</u> If TransformerFactory.getFeature(java.lang.String) returns true when passed this value as an argument, the Transformer supports Result <u>output of this type</u> .
-----------------------------	--

Fields inherited from interface javax.xml.transform.[Result](#)

[PI_DISABLE_OUTPUT_ESCAPING](#), [PI_ENABLE_OUTPUT_ESCAPING](#)

Constructor Summary

DOMResult ()	Zero-argument default constructor.	added as LAST child
DOMResult (Node node)	Use a <u>DOM node</u> to create a new output target.	added as child at before to this sibling
DOMResult (Node node, Node nextSibling)	Use a DOM node to create a new output target specifying the child node where <u>the result nodes should be inserted before</u> .	
DOMResult (Node node, Node nextSibling, java.lang.String systemId)	Use a <u>DOM node</u> to create a new output target specifying the child node where the result nodes should be inserted before and the <u>specified System ID</u> .	
DOMResult (Node node, java.lang.String systemId)	Use a DOM node to create a new output target with the specified System ID.	

Method Summary

Node	getNextSibling ()	Get the child node <u>before which</u> the result nodes will be inserted.
Node	getNode ()	Get the node that <u>will contain the result DOM tree</u> .
java. lang. String	getSystemId ()	Get the System Identifier.
void	setNextSibling (Node nextSibling)	Set the child node <u>before which</u> the result nodes will be inserted.

void	setNode (Node node) Set the node that will contain the result DOM tree.
void	setSystemId (java.lang.String systemId) by inheritance Set the systemId that may be used in association with the node.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed [this value as an argument](#), the Transformer supports Result output of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

DOMResult

```
public DOMResult()
```

Zero-argument default constructor.

[node](#), [siblingNode](#) [and](#) [systemId](#) [will be set to null](#).

DOMResult

```
public DOMResult(Node node)
```

Use a DOM node to create a new output target.

In practice, the node should be a [Document](#) node, a [DocumentFragment](#) node, or a [Element](#) node. In other words, a node that accepts children.

siblingNode and systemId will be set to null.

Parameters:

node - The DOM node that will contain the result tree.

DOMResult

```
public DOMResult(Node node,  
                  java.lang.String systemId)
```

Use a DOM node to create a new output target with the specified System ID.

In practice, the node should be a [Document](#) node, a [DocumentFragment](#) node, or a [Element](#) node. In other words, a node that accepts children.

siblingNode will be set to null.

Parameters:

node - The DOM node that will contain the result tree.

systemId - The system identifier which may be used in association with this node.

DOMResult

```
public DOMResult(Node node,  
                  Node nextSibling)
```

Use a DOM node to create a new output target specifying the child node where the result nodes should be inserted before.

In practice, node and nextSibling should be a [Document](#) node, a [DocumentFragment](#) node, or a [Element](#) node. In other words, a node that accepts children.

Use nextSibling to specify the child node where the result nodes should be inserted before. If nextSibling is not a sibling of node, then an IllegalArgumentException is thrown. If node is null and nextSibling is not null, then an IllegalArgumentException is thrown. If nextSibling is null, then the behavior is the same as calling [DOMResult\(Node node\)](#), i.e. append the result nodes as the last child of the specified node.

systemId will be set to null.

Parameters:

node - The DOM node that will contain the result tree.

nextSibling - The child node where the result nodes should be inserted before.

Throws:

java.lang.IllegalArgumentException - If nextSibling is not a sibling of node or node is null and nextSibling is not null.

Since:

1.5

DOMResult

```
public DOMResult(Node node,
                 Node nextSibling,
                 java.lang.String systemId)
```

Use a DOM node to create a new output target specifying the child node where the result nodes should be inserted before and the specified System ID.

In practice, node and nextSibling should be a [Document](#) node, a [DocumentFragment](#) node, or a [Element](#) node. In other words, a node that accepts children.

Use nextSibling to specify the child node where the result nodes should be inserted before. If nextSibling is not a sibling of node, then an IllegalArgumentException is

thrown. If `node` is null and `nextSibling` is not null, then an `IllegalArgumentException` is thrown. If `nextSibling` is null, then the behavior is the same as calling [DOMResult\(Node node, String systemId\)](#), i.e. append the result nodes as the last child of the specified node and use the specified System ID.

Parameters:

`node` - The DOM node that will contain the result tree.

`nextSibling` - The child node where the result nodes should be inserted before.

`systemId` - The system identifier which may be used in association with this node.

Throws:

`java.lang.IllegalArgumentException` - If `nextSibling` is not a sibling of `node` or `node` is null and `nextSibling` is not null.

Since:

1.5

Method Detail

setNode

```
public void setNode (Node node)
```

Set the node that will contain the result DOM tree.

In practice, the node should be a [Document](#) node, a [DocumentFragment](#) node, or a [Element](#) node. In other words, a node that accepts children.

An `IllegalStateException` is thrown if `nextSibling` is not null and `node` is not a parent of `nextSibling`. An `IllegalStateException` is thrown if `node` is null and `nextSibling` is not null.

Parameters:

`node` - The node to which the transformation will be appended.

Throws:

`java.lang.IllegalStateException` - If `nextSibling` is not null and `nextSibling` is not a child of `node` or `node` is null and `nextSibling` is not null.

getNode

```
public Node getNode ()
```

Get the node that will contain the result DOM tree.

If no node was set via [DOMResult\(Node node\)](#), [DOMResult\(Node node, String sysId\)](#), [DOMResult\(Node node, Node nextSibling\)](#), [DOMResult\(Node node, Node nextSibling, String systemId\)](#) or [setNode\(Node node\)](#), then the node will be set by the transformation, and may be obtained from this method once the transformation is complete. Calling this method before the transformation will return null.

Returns:

The node to which the transformation will be appended.

setNextSibling

```
public void setNextSibling (Node nextSibling)
```

Set the child node before which the result nodes will be inserted.

Use nextSibling to specify the child node before which the result nodes should be inserted. If nextSibling is not a descendant of node, then an `IllegalArgumentException` is thrown. If node is null and nextSibling is not null, then an `IllegalStateException` is thrown. If nextSibling is null, then the behavior is the same as calling [DOMResult\(Node node\)](#), i.e. append the result nodes as the last child of the specified node.

Parameters:

nextSibling - The child node before which the result nodes will be inserted.

Throws:

`java.lang.IllegalArgumentException` - If nextSibling is not a descendant of node.

`java.lang.IllegalStateException` - If node is null and nextSibling is not null.

Since:

1.5

getNextSibling

```
public Node getNextSibling()
```

Get the child node before which the result nodes will be inserted.

If no node was set via [DOMResult\(Node node, Node nextSibling\)](#), [DOMResult\(Node node, Node nextSibling, String systemId\)](#) or [setNextSibling\(Node nextSibling\)](#), then null will be returned.

Returns:

The child node before which the result nodes will be inserted.

Since:

1.5

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

Set the systemId that may be used in association with the node.

Specified by:

[setSystemId](#) in interface [Result](#)

Parameters:

systemId - The system identifier as a URI string.

getSystemId

```
public java.lang.String getSystemId()
```

Get the System Identifier.

If no System ID was set via [DOMResult\(Node node, String systemId\)](#), [DOMResult\(Node node, Node nextSibling, String systemId\)](#) or [setSystemId\(String systemId\)](#), then null will be returned.

Specified by:

[getSystemId](#) in interface [Result](#)

Returns:

The system identifier.

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it has 2 method

2 - getter / setter for Node

it has 3 constructor

All Implemented Interfaces:[Source](#)`public class DOMSource`extends `java.lang.Object`implements [Source](#)

Acts as a holder for a transformation Source tree in the form of a Document Object Model (DOM) tree.

Note that XSLT requires namespace support. Attempting to transform a DOM that was not constructed with a namespace-aware parser may result in errors. ~~Parsers can be made namespace-aware by calling `DocumentBuilderFactory.setNamespaceAware(boolean awareness)`~~

Version:

\$Revision: 1.3 \$, \$Date: 2005/11/03 19:34:24 \$

Author:[Jeff Suttor](#)**See Also:**[Document Object Model \(DOM\) Level 2 Specification](#)**Field Summary**

static java. lang.String	FEATURE If TransformerFactory.getFeature(java.lang.String) returns true when passed this value as an argument, the Transformer supports Source input of this type.
-----------------------------	--

Constructor Summary

DOMSource ()	Zero-argument default constructor.
DOMSource (Node n)	Create a new input source with a DOM node.
DOMSource (Node node, java.lang.String systemID)	Create a new input source with a DOM node, and with the system ID also passed in as the base URI.

Method Summary

Node	getNode () Get the node that represents a Source DOM tree.
java. lang. String	getSystemId () by inheritance Get the base ID (URL or system ID) from where URLs will be resolved.
void	setNode (Node node) Set the node that will represents a Source DOM tree.
void	setSystemId (java.lang.String systemID) by inheritance Set the base ID (URL or system ID) from where URLs will be resolved.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
--

Field Detail

FEATURE


```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Source input of this type.

See Also:

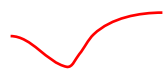
[Constant Field Values](#)

Constructor Detail

DOMSource

```
public DOMSource()
```

Zero-argument default constructor. If this constructor is used, and no DOM source is set using [setNode\(Node node\)](#), then the Transformer will create an empty source [Document](#) using [DocumentBuilder.newDocument\(\)](#).



See Also:

[Transformer.transform\(Source xmlSource, Result outputTarget\)](#)

DOMSource

```
public DOMSource(Node n)
```

Create a new input source with a DOM node. The operation will be applied **to the subtree rooted at this node**. In XSLT, a "/" pattern still means the root of the tree (not the subtree), and the evaluation of global variables and parameters is done from the root node also.

Parameters:

n - The DOM node that will contain the Source tree.

DOMSource

```
public DOMSource (Node node,  
                  java.lang.String systemID)
```

Create a new input source with a DOM node, and with the system ID also passed in as the base URI.

the remaining path will be appended from root node to it current node

Parameters:

`node` - The DOM node that will contain the Source tree.
`systemID` - Specifies the base URI associated with node.

Method Detail

setNode

```
public void setNode (Node node)
```

~~Set the node that will represents a Source DOM tree.~~

Parameters:

~~`node` - The node that is to be transformed.~~

getNode

```
public Node getNode ()
```

~~Get the node that represents a Source DOM tree.~~

Returns:

~~The node that is to be transformed.~~

setSystemId

base id means- just full path of document.
 but, node path with in document will be
 appended dynamically

```
public void setSystemId (java.lang.String systemID)
```

Set the base ID (URL or system ID) from where URLs will be resolved.

Specified by:

[setSystemId](#) in interface [Source](#)

Parameters:

systemID - Base URL for this DOM tree.

getSystemId

```
public java.lang.String getSystemId()
```

~~Get the base ID (URL or system ID) from where URLs will be resolved.~~

Specified by:

~~[getSystemId](#) in interface [Source](#)~~

Returns:

~~Base URL for this DOM tree.~~

Overview	Package	Class	Use	Tree	Deprecated	Index	Help
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----------------------------	----------------------------

FRAMES	NO FRAMES	All Classes
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SUMMARY: NESTED | [FIELD](#) | [CONSTR](#) | [METHOD](#)

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3 - Jan - 09

Only it has 3 methods

javax.xml.transform

Interface ErrorListener

public interface **ErrorListener**

To provide customized error handling, implement this interface and use the `setErrorListener` method to register an instance of the implementation with the [Transformer](#). The `Transformer` then reports all errors and warnings through this interface.

If an application does *not* register its own custom `ErrorListener`, the default `ErrorListener` is used which reports all warnings and errors to `System.err` and does not throw any `Exceptions`. Applications are *strongly* encouraged to register and use `ErrorListeners` that insure proper behavior for warnings and errors.

For transformation errors, a `Transformer` must use this interface instead of throwing an `Exception`: it is up to the application to decide whether to throw an `Exception` for different types of errors and warnings. Note however that the `Transformer` is not required to continue with the transformation after a call to [fatalError\(TransformerException exception\)](#).

`Transformers` may use this mechanism to report XML parsing errors as well as transformation errors.

Method Summary

void	error (TransformerException exception) Receive notification of a recoverable error.
void	fatalError (TransformerException exception) Receive notification of a non-recoverable error.

void	warning (TransformerException exception)
------	--

	Receive notification of a warning.
--	------------------------------------

Method Detail

warning

so, if error handler dont want to continue just throw exception. this rule apply all SAX / DOM / TrAX error handlers

```
void warning(TransformerException exception)
           throws TransformerException
```

I think, This method will be used only with DTD.

Receive notification of a warning.

[Transformer](#) can use this method to report conditions that are not errors or fatal errors. The default behaviour is to take no action.

After invoking this method, the Transformer must continue with the transformation. It should still be possible for the application to process the document through to the end.

Parameters:

exception - The warning information encapsulated in a transformer exception.

Throws:

[TransformerException](#) - if the application chooses to discontinue the transformation.

See Also:

[TransformerException](#)

error

so, if error handler dont want to continue just throw exception. this rule apply all SAX / DOM / TrAX error handlers

```
void error(TransformerException exception)
           throws TransformerException
```

Receive notification of a recoverable error.

~~The transformer must continue to try and provide normal transformation after invoking this method. It should still be possible for the application to process the document through to the end~~

~~if no other errors are encountered.~~

Parameters:

~~exception - The error information encapsulated in a transformer exception.~~

Throws:

~~[TransformerException](#) - if the application chooses to discontinue the transformation.~~

See Also:

~~[TransformerException](#)~~

so, if error handler dont want to continue just throw exception. this rule apply all SAX / DOM / TrAX error handlers

fatalError

```
void fatalError(TransformerException exception)
    throws TransformerException
```

~~Receive notification of a non-recoverable error.~~

~~The processor may choose to continue, but will not normally proceed to a successful completion.~~

~~The method should throw an exception if it is unable to process the error, or if it wishes execution to terminate immediately. The processor will not necessarily honor this request.~~

Parameters:

~~exception - The error information encapsulated in a [TransformerException](#).~~

Throws:

~~[TransformerException](#) - if the application chooses to discontinue the transformation.~~

See Also:

~~[TransformerException](#)~~

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3 - Jan - 09

javax.xml.transform

Class OutputKeys

java.lang.Object

└─ javax.xml.transform.OutputKeys

These are the output properties, we can set to XSLT Engine

public class **OutputKeys**

it deals with different attribute of <xsl:output> tag. this tag has around 10 attribute

extends java.lang.Object

i have skipped. Gets hands on at the time usage (3 - jan -09)

Provides string constants that can be used to set output properties for a Transformer, or to retrieve output properties from a Transformer or Templates object.

All the fields in this class are read-only.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#)

Field Summary

static java.lang.String	CDATA_SECTION_ELEMENTS cdata-section-elements = <i>expanded names</i> .
static java.lang.String	DOCTYPE_PUBLIC doctype-public = <i>string</i> .
static java.lang.String	DOCTYPE_SYSTEM doctype-system = <i>string</i> .
static java.lang.String	ENCODING encoding = <i>string</i> .

static java. lang.String	INDENT indent = "yes" "no".
static java. lang.String	MEDIA_TYPE media-type = <i>string</i> .
static java. lang.String	METHOD method = "xml" "html" "text" <i>expanded name</i> .
static java. lang.String	OMIT_XML_DECLARATION omit-xml-declaration = "yes" "no".
static java. lang.String	STANDALONE standalone = "yes" "no".
static java. lang.String	VERSION version = <i>nmtoken</i> .

Method Summary

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

METHOD

public static final java.lang.String **METHOD**

method = "xml" | "html" | "text" | *expanded name*.

The value of the method property identifies the overall method that should be used for outputting the result tree. Other non-namespaced values may be used, such as "xhtml", but, if accepted, the handling of such values is implementation defined. If any of the method values are not accepted and are not namespace qualified, then [Transformer.setOutputProperty\(java.lang.String, java.lang.String\)](#) or [Transformer.setOutputProperties\(java.util.Properties\)](#) will throw a [IllegalArgumentException](#).

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

VERSION

```
public static final java.lang.String VERSION
```

`version` = *nmtoken*.

`version` specifies the version of the output method.

When the output method is "xml", the version value specifies the version of XML to be used for outputting the result tree. The default value for the xml output method is 1.0. When the output method is "html", the version value indicates the version of the HTML. The default value for the xml output method is 4.0, which specifies that the result should be output as HTML conforming to the HTML 4.0 Recommendation [HTML]. If the output method is "text", the version property is ignored.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

ENCODING

```
public static final java.lang.String ENCODING
```

`encoding` = *string*.

`encoding` specifies the preferred character encoding that the Transformer should use to encode sequences of characters as sequences of bytes. The value of the encoding property should be treated case-insensitively. The value must only contain characters in the range #x21 to #x7E (i.e., printable ASCII characters). The value should either be a `charset` registered with the Internet Assigned Numbers Authority [\[IANA\]](#), [\[RFC2278\]](#) or start with X-.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

OMIT_XML_DECLARATION

```
public static final java.lang.String OMIT_XML_DECLARATION
```

```
omit-xml-declaration = "yes" | "no".
```

`omit-xml-declaration` specifies whether the XSLT processor should output an XML declaration; the value must be `yes` or `no`.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

STANDALONE

```
public static final java.lang.String STANDALONE
```

```
standalone = "yes" | "no".
```

`standalone` specifies whether the Transformer should output a standalone document declaration; the value must be `yes` or `no`.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

DOCTYPE_PUBLIC

```
public static final java.lang.String DOCTYPE_PUBLIC
```

doctype-public = *string*.

See the documentation for the [DOCTYPE_SYSTEM](#) property for a description of what the value of the key should be.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

DOCTYPE_SYSTEM

```
public static final java.lang.String DOCTYPE_SYSTEM
```

doctype-system = *string*.

doctype-system specifies the system identifier to be used in the document type declaration.

If the doctype-system property is specified, the xml output method should output a document type declaration immediately before the first element. The name following <!DOCTYPE should be the name of the first element. If doctype-public property is also specified, then the xml output method should output PUBLIC followed by the public identifier and then the system identifier; otherwise, it should output SYSTEM followed by the system identifier. The internal subset should be empty. The value of the doctype-public property should be ignored unless the doctype-system property is specified.

If the doctype-public or doctype-system properties are specified, then the html output method should output a document type declaration immediately before the first element. The name following <!DOCTYPE should be HTML or html. If the doctype-public property is specified, then the output method should output PUBLIC followed by the specified public identifier; if the doctype-system property is also specified, it should also output the specified system identifier following the public identifier. If the doctype-system property is specified but the doctype-public property is not specified, then the output method should output SYSTEM followed by the specified system identifier.

doctype-system specifies the system identifier to be used in the document type declaration.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

[Values](#)

CDATA_SECTION_ELEMENTS

```
public static final java.lang.String CDATA_SECTION_ELEMENTS
```

`CDATA_SECTION_ELEMENTS` = *expanded names*.

`CDATA_SECTION_ELEMENTS` specifies a whitespace delimited list of the names of elements whose text node children should be output using CDATA sections. Note that these names must use the format described in the section Qualified Name Representation in [javax.xml.transform](#).

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

INDENT

```
public static final java.lang.String INDENT
```

`INDENT` = "yes" | "no".

`INDENT` specifies whether the Transformer may add additional whitespace when outputting the result tree; the value must be `yes` or `no`.

See Also:

[section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

MEDIA_TYPE

```
public static final java.lang.String MEDIA_TYPE
```

`media-type` = *string*.

`media-type` specifies the media type (MIME content type) of the data that results from outputting the result tree. The `charset` parameter should not be specified explicitly; instead, when the top-level media type is `text`, a `charset` parameter should be added according to the character encoding actually used by the output method.

See Also:

[s ection 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#), [Constant Field Values](#)

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3 - Jan - 09

javax.xml.transform

only it has 2 methods

Interface Result

All Known Implementing Classes:

[DOMResult](#), [SAXResult](#), [StAXResult](#), [StreamResult](#)

```
public interface Result
```

An object that implements this interface contains the information needed to build a transformation result tree.

Author:

[Jeff Suttor](#)

Field Summary

<code>static java.lang.String</code>	<u>PI_DISABLE_OUTPUT_ESCAPING</u> The name of the <u>processing instruction</u> that is sent if the result tree disables output escaping.
<code>static java.lang.String</code>	<u>PI_ENABLE_OUTPUT_ESCAPING</u> The name of the <u>processing instruction</u> that is sent if the result tree enables output escaping at some point after having received a <code>PI_DISABLE_OUTPUT_ESCAPING</code> processing instruction.

Method Summary

<code>java.lang.String</code>	<u>getSystemId</u> () Get the system identifier that was set with <u>setSystemId</u> .
-------------------------------	---

void	setSystemId (java.lang.String systemId) Set the system identifier for this Result.
------	--

Field Detail

PI_DISABLE_OUTPUT_ESCAPING

```
static final java.lang.String PI_DISABLE_OUTPUT_ESCAPING
```

The name of the processing instruction that is sent if the result tree disables output escaping.

Normally, result tree serialization escapes & and < (and possibly other characters) when outputting text nodes. This ensures that the output is well-formed XML. However, it is sometimes convenient to be able to produce output that is almost, but not quite well-formed XML; for example, the output may include ill-formed sections that will be transformed into well-formed XML by a subsequent non-XML aware process. If a processing instruction is sent with this name, serialization should be output without any escaping.

Result DOM trees may also have `PI_DISABLE_OUTPUT_ESCAPING` and `PI_ENABLE_OUTPUT_ESCAPING` inserted into the tree.

See Also:

[disable-output-escaping in XSLT Specification](#), [Constant Field Values](#)

PI_ENABLE_OUTPUT_ESCAPING

```
static final java.lang.String PI_ENABLE_OUTPUT_ESCAPING
```

The name of the processing instruction that is sent if the result tree enables output escaping at some point after having received a `PI_DISABLE_OUTPUT_ESCAPING` processing instruction.

See Also:

[disable-output-escaping in XSLT Specification](#), [Constant Field Values](#)

Method Detail

setSystemId

```
void setSystemId(java.lang.String systemId)
```

Set the system identifier for this Result.

If the Result is not to be written to a file, the system identifier is optional. The application may still want to provide one, however, for use in error messages and warnings, or to resolve relative output identifiers.

super debugging style..

Parameters:

systemId - The system identifier as a URI string.

getSystemId

```
java.lang.String getSystemId()
```

~~Get the system identifier that was set with setSystemId.~~

Returns:

~~The system identifier that was set with setSystemId, or null if setSystemId was not called.~~

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1 - Nov - 08

3 - Jan - 09 [transform.sax](#)

Class SAXResult

 this is simply like
Domain object

it has 4 methods

 2 - getter / setter for ContentHandler
 2 - getter / setter for LexicalHandler

java.lang.Object

 ↳ `javax.xml.transform.sax.SAXResult`

All Implemented Interfaces:

[Result](#)

```
public class SAXResult
```

extends java.lang.Object

 implements [Result](#)

Acts as an holder for a transformation Result.

Author:

[Jeff Suttor](#)

Field Summary

 static java.
lang.String

[FEATURE](#)

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Result output of this type.

Fields inherited from interface javax.xml.transform.[Result](#)

[PI_DISABLE_OUTPUT_ESCAPING](#), [PI_ENABLE_OUTPUT_ESCAPING](#)

Constructor Summary

[SAXResult](#) ()

Zero-argument default constructor.

[SAXResult](#) ([ContentHandler](#) handler)

Create a SAXResult that targets a SAX2 [ContentHandler](#).

Method Summary

ContentHandler	getHandler () Get the ContentHandler that is the Result.
LexicalHandler	getLexicalHandler () Get a SAX2 LexicalHandler for the output.
<div>by inheritance</div> <div>java.lang. String</div>	getSystemId () Get the system identifier that was set with setSystemId.
void	setHandler (ContentHandler handler) Set the target to be a SAX2 ContentHandler .
void	setLexicalHandler (LexicalHandler handler) Set the SAX2 LexicalHandler for the output.
<div>by inheritance</div> <div>void</div>	setSystemId (java.lang.String systemId) Method setSystemId Set the systemID that may be used in association with the ContentHandler .

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

FEATURE

public static final java.lang.String **FEATURE**

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Result output of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

SAXResult

```
public SAXResult()
```

~~Zero-argument default constructor.~~

SAXResult

```
public SAXResult(ContentHandler handler)
```

~~Create a SAXResult that targets a SAX2 [ContentHandler](#)~~

Parameters:

~~[handler](#) - Must be a non-null ContentHandler reference.~~

Method Detail

setHandler

```
public void setHandler(ContentHandler handler)
```

~~Set the target to be a SAX2 [ContentHandler](#)~~

Parameters:

~~[handler](#) - Must be a non-null ContentHandler reference.~~

getHandler

```
public ContentHandler getHandler()
```

Get the [ContentHandler](#) that is the Result.

Returns:

The [ContentHandler](#) that is to be transformation output.

setLexicalHandler

```
public void setLexicalHandler(LexicalHandler handler)
```

Set the SAX2 [LexicalHandler](#) for the output.

This is needed to handle XML comments and the like. If the lexical handler is not set, an attempt should be made by the transformer to cast the [ContentHandler](#) to a [LexicalHandler](#).

21 W 64 n

Parameters:

handler - A non-null [LexicalHandler](#) for handling lexical parse events.

getLexicalHandler

```
public LexicalHandler getLexicalHandler()
```

Get a SAX2 [LexicalHandler](#) for the output.

Returns:

A [LexicalHandler](#), or null.

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

~~Method **setSystemId** Set the systemID that may be used in association with the [ContentHandler](#).~~

Specified by:

[setSystemId](#) in interface [Result](#)

Parameters:

systemId - The system identifier as a URI string.

getSystemId

```
public java.lang.String getSystemId()
```

~~Get the system identifier that was set with **setSystemId**.~~

Specified by:

[getSystemId](#) in interface [Result](#)

Returns:

~~The system identifier that was set with **setSystemId**, or null if **setSystemId** was not called.~~

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1 - Nov - 08

javax.xml.transform.sax

Class SAXSource

java.lang.Object

└─ javax.xml.transform.sax.SAXSource

All Implemented Interfaces:[Source](#)this is simply like
Domain objectpublic class **SAXSource**

extends java.lang.Object

implements [Source](#)Acts as an holder for SAX-style Source.For normal process
just SAXSource and SAXResult with normal sax
content handler is enough.Then why SAXTransformerFactory /
TransformerHandler, TemplateHandler in this
package ????

ANS :To transform SAXEvent

this is another one way
to transform SAXHere Not talks
about XSL file.
only XML file

Note that XSLT requires namespace support. Attempting to transform an input source that is not generated with a namespace-aware parser may result in errors. Parsers can be made namespace aware by calling the [SAXParserFactory.setNamespaceAware\(boolean awareness\)](#) method.

Version:

\$Revision: 1.4 \$, \$Date: 2006/04/06 00:26:38 \$

Author:[Jeff Suttor](#)

this is not mandatory. (i tested)

but mandatory if result is
SAXResult of transform method**Field Summary**

static java. lang.String	FEATURE If TransformerFactory.getFeature(java.lang.String) returns true when passed this value as an argument, the Transformer supports Source input of this type.
-----------------------------	--

Constructor Summary

SAXSource ()	Zero-argument default constructor.
SAXSource (InputSource inputSource)	<div>this is the xml file</div> Create a SAXSource, using a SAX InputSource.
SAXSource (XMLReader reader, InputSource inputSource)	Create a SAXSource, using an XMLReader and a SAX InputSource.

Method Summary

InputSource	getInputSource () Get the SAX InputSource to be used for the Source.
java.lang.String <div>by inheritance</div>	getSystemId () Get the base ID (URI or system ID) from where URIs will be resolved.
XMLReader	getXMLReader () Get the XMLReader to be used for the Source.
void	setInputSource (InputSource inputSource) Set the SAX InputSource to be used for the Source.
<div>by inheritance</div>	setSystemId (java.lang.String systemId) Set the system identifier for this Source.
void	setXMLReader (XMLReader reader) Set the XMLReader to be used for the Source.
<div>static</div> InputSource	sourceToInputSource (Source source) Attempt to obtain a SAX InputSource object from a Source object.

Methods inherited from class java.lang.Object

this is utility
method

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Source input of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

SAXSource

```
public SAXSource()
```

Zero-argument default constructor. If this constructor is used, and no SAX source is set using [setInputSource\(InputSource inputSource\)](#), then the Transformer will create an empty source [InputSource](#) using [new InputSource\(\)](#).

See Also:

[Transformer.transform\(Source xmlSource, Result outputTarget\)](#)

SAXSource

```
public SAXSource(XMLReader reader,
                 InputSource inputSource)
```

Create a SAXSource, using an [XMLReader](#) and a SAX InputSource. The [Transformer](#) or

[SAXTransformerFactory](#) will set itself to be the reader's [ContentHandler](#), and then will call `reader.parse(inputSource)`.

Parameters:

`reader` - An `XMLReader` to be used for the parse.

`inputSource` - A SAX input source reference that must be non-null and that will be passed to the reader parse method.

SAXSource

```
public SAXSource (InputSource inputSource)
```

now

Create a `SAXSource`, using a SAX `InputSource`. The [Transformer](#) or [SAXTransformerFactory](#) creates a reader via [XMLReaderFactory](#) (if `setXMLReader` is not used), sets itself as the reader's [ContentHandler](#), and calls `reader.parse(inputSource)`.

Parameters:

`inputSource` - An input source reference that must be non-null and that will be passed to the parse method of the reader.

Method Detail

setXMLReader

```
public void setXMLReader (XMLReader reader)
```

~~Set the XMLReader to be used for the Source.~~

Parameters:

`reader` - A valid `XMLReader` or `XMLFilter` reference.

getXMLReader

```
public XMLReader getXMLReader ()
```

~~Get the XMLReader to be used for the Source.~~

Returns:

A valid XMLReader or XMLFilter reference, or null.

setInputSource

```
public void setInputSource(InputSource inputSource)
```

~~Set the SAX InputSource to be used for the Source.~~

Parameters:

inputSource - A valid InputSource reference.

getInputSource

```
public InputSource getInputSource()
```

~~Get the SAX InputSource to be used for the Source.~~

Returns:

~~A valid InputSource reference, or null.~~

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

Set the system identifier for this Source. If an input source has already been set, it will set the system ID or that input source, otherwise it will create a new input source.

The system identifier is optional if there is a byte stream or a character stream, but it is still useful to provide one, since the application can use it to resolve relative URIs and can include it in error messages and warnings (the parser will attempt to open a connection to the URI only if no byte

stream or **character** stream is specified).

Specified by:

[setSystemId](#) in interface [Source](#)

Parameters:

systemId - The system identifier as a URI string.

getSystemId

```
public java.lang.String getSystemId()
```

~~Get the base ID (URI or system ID) from where URIs will be resolved.~~

~~**Specified by:**~~

~~[getSystemId](#) in interface [Source](#)~~

~~**Returns:**~~

~~Base URL for the Source, or null~~

sourceToInputSource

```
public static InputSource sourceToInputSource(Source source)
```

Attempt to obtain a SAX InputSource object from a Source object.

Parameters:

source - Must be a non-null Source reference.

Returns:

An InputSource, or null if Source can not be converted.

can i get from DOMSource ???

i dont know...

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Package **Class** Use Tree Deprecated Index Help

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it has 6 methods

3 - create TransformerHandler
2 - create XMLFilter
1 - create TemplatesHandler

javax.xml.transform.sax

Class SAXTransformerFactory

java.lang.Object

└─ [javax.xml.transform.TransformerFactory](#)

└─ [javax.xml.transform.sax.SAXTransformerFactory](#)

how to create Templates for given XSL file ???

ANS: use TransformerFactory

public abstract class **SAXTransformerFactory**

extends [TransformerFactory](#)

this factory is not having newInstance() methods,

so we have to cast based feature support

This class extends TransformerFactory to provide SAX-specific factory methods. It provides two types of ContentHandlers, one for creating Transformers, the other for creating Templates objects.

If an application wants to set the ErrorHandler or EntityResolver for an XMLReader used during a transformation, it should use a URIResolver to return the SAXSource which provides (with getXMLReader) a reference to the XMLReader.

Field Summary

static java.
lang.String

[FEATURE](#)

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the TransformerFactory returned from [TransformerFactory.newInstance\(\)](#) may be safely cast to a SAXTransformerFactory.

static java.
lang.String

[FEATURE_XMLFILTER](#)

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the [newXMLFilter\(Source src\)](#) and [newXMLFilter\(Templates templates\)](#) methods are supported.

Constructor Summary

protected

[SAXT](#)

we have to call `XMLReader.parser()` method explicitly when using `SAXTransformerFactory` and no need to call transform method .
But in `SAXSource` we never call parse method of `XMLReader` explicitly and but have to call `transform()` method on transormer

Method Summary

if want parse XSL
file use this
Templatehandler

abstract
[TemplatesHandler](#)

[newTemplatesHandler](#) ()

Get a `TemplatesHandler` object that can process `SAX ContentHandler` events into a `Templates` object. but not transfer to Result

abstract
[TransformerHandler](#)

[newTransformerHandler](#) ()

Get a `TransformerHandler` object that can process `SAX ContentHandler` events into a `Result`. this is xml file

abstract
[TransformerHandler](#)

[newTransformerHandler](#) ([Source](#) src)

Get a `TransformerHandler` object that can process `SAX ContentHandler` events into a `Result`, based on the transformation instructions specified by the argument. XSL file

abstract
[TransformerHandler](#)

[newTransformerHandler](#) ([Templates](#) templates)

Get a `TransformerHandler` object that can process `SAX ContentHandler` events into a `Result`, based on the `Templates` argument. memory rep. of XSL file

abstract [XMLFilter](#)

[newXMLFilter](#) ([Source](#) src)

Create an `XMLFilter` that uses the given `Source` as the transformation instructions. XSL file

abstract [XMLFilter](#)

[newXMLFilter](#) ([Templates](#) templates)

Create an `XMLFilter`, based on the `Templates` argument.. memory rep. of XSL file

Methods inherited from class `javax.xml.transform.TransformerFactory`

[getAssociatedStylesheet](#), [getAttribute](#), [getErrorHandler](#), [getFeature](#), [getURIResolver](#), [newInstance](#), [newInstance](#), [newTemplates](#), [newTransformer](#), [newTransformer](#), [setAttribute](#), [setErrorHandler](#), [setFeature](#), [setURIResolver](#)

Methods inherited from class `java.lang.Object`

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the TransformerFactory returned from [TransformerFactory.newInstance\(\)](#) may be safely cast to a SAXTransformerFactory.

See Also:

[Constant Field Values](#)

FEATURE_XMLFILTER

```
public static final java.lang.String FEATURE_XMLFILTER
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the [newXMLFilter\(Source src\)](#) and [newXMLFilter\(Templates templates\)](#) methods are supported.

See Also:

[Constant Field Values](#)

Constructor Detail

SAXTransformerFactory

```
protected SAXTransformerFactory()
```

The default constructor is protected on purpose.

Method Detail

newTransformerHandler

```
public abstract TransformerHandler newTransformerHandler(Source src)
TransformerConfigurationException throws XSL file
```

Get a TransformerHandler object that can process [SAX ContentHandler](#) events into a Result, based on the [transformation instructions specified by the argument](#).

Parameters:

`src` - The Source of the transformation instructions. XSL file

Returns:

TransformerHandler ready to transform SAX events.

Throws:

[TransformerConfigurationException](#) - If for some reason the TransformerHandler can not be created.

newTransformerHandler
super method. use this method.

```
public abstract TransformerHandler newTransformerHandler(Templates templates)
    throws
TransformerConfigurationException
```

Get a TransformerHandler object that can process SAX ContentHandler events into a Result, based on the Templates argument.

Parameters:

`templates` - The compiled transformation instructions.

Returns:

TransformerHandler ready to transform SAX events.

Throws:

[TransformerConfigurationException](#) - If for some reason the TransformerHandler can not be created.

newTransformerHandler

```
public abstract TransformerHandler newTransformerHandler()
    throws
TransformerConfigurationException
```

Get a TransformerHandler object that can process SAX ContentHandler events into a Result. The transformation is defined as an identity (or copy) transformation, for example to copy a series of SAX parse events into a DOM tree.

Returns:

A non-null reference to a TransformerHandler, that may be used as a ContentHandler for SAX parse events.

Throws:

[TransformerConfigurationException](#) - If for some reason the TransformerHandler

cannot be created.

newTemplatesHandler

```
public abstract TemplatesHandler newTemplatesHandler()
                                     throws
```

[TransformerConfigurationException](#)

to create **Templates** object
from SAX events..

Get a TemplatesHandler object that can process SAX ContentHandler events into a Templates object.

Returns:

A non-null reference to a TransformerHandler, that may be used as a ContentHandler for SAX parse events.

Throws:

[TransformerConfigurationException](#) - If for some reason the TemplatesHandler cannot be created.

newXMLFilter

```
public abstract XMLFilter newXMLFilter(Source src)
                                     throws TransformerConfigurationException
```

XSL file



Create an XMLFilter that uses the given Source as the transformation instructions.

Parameters:

src - The Source of the transformation instructions.

Returns:

An XMLFilter object, or null if this feature is not supported.

Throws:

[TransformerConfigurationException](#) - If for some reason the TemplatesHandler cannot be created.

newXMLFilter

```
public abstract XMLFilter newXMLFilter(Templates templates)
                                     throws TransformerConfigurationException
```

Create an XMLFilter, based on the Templates argument..

Parameters:

`templates` - The compiled transformation instructions.

Returns:

An XMLFilter object, or null if this feature is not supported.

Throws:

[TransformerConfigurationException](#) - If for some reason the TemplatesHandler cannot be created.

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3 - Jan - 09

javax.xml.transform

only it has 2 methods

Interface Source

All Known Implementing Classes:

[DOMSource](#), [SAXSource](#), [StAXSource](#), [StreamSource](#)

```
public interface Source
```

An object that implements this interface contains the information needed to act as source input (XML source or transformation instructions).

Method Summary

java. lang. String	getSystemId () Get the system identifier that was set with setSystemId .
void	setSystemId (java.lang.String systemId) Set the system identifier for this Source.

Method Detail

setSystemId

```
void setSystemId(java.lang.String systemId)
```

Set the system identifier for this Source.

The system identifier is optional if the source does not get its data from a URL, but it may still be

useful to provide one. The application can use a system identifier, for example, to resolve relative URIs and to include in error messages and warnings.

Parameters:

`systemId` - The system identifier as a URL string.

getSystemId

```
java.lang.String getSystemId()
```

~~Get the system identifier that was set with `setSystemId`.~~

Returns:

~~The system identifier that was set with `setSystemId`, or null if `setSystemId` was not called.~~

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javax.xml.transform

Interface SourceLocator

All Known Subinterfaces:

[DOMLocator](#)

it has only 4 methods

you can access this object ONLY when ERROR occurred.

that is any one method of ErrorListener ONLY. NOT even exception at transform() method calling . (i tested.)

public interface **SourceLocator**

This interface is primarily for the purposes of reporting where an error occurred in the XML source or transformation instructions.

error in Both file.....

Method Summary

int	getColumnNumber () Return the character position where the current document event ends.
int	getLineNumber () Return the line number where the current document event ends.
java. lang. String	getPublicId () Return the public identifier for the current document event.
java. lang. String	getSystemId () Return the system identifier for the current document event.

Method Detail

getPublicId

```
java.lang.String getPublicId()
```

URL path

~~Return the public identifier for the current document event.~~

~~The return value is the public identifier of the document entity or of the external parsed entity in which the markup that triggered the event appears.~~

Returns:

~~A string containing the public identifier, or null if none is available.~~

See Also:

[getSystemId\(\)](#)

getSystemId

```
java.lang.String getSystemId()
```

hard disk path

~~Return the system identifier for the current document event.~~

~~The return value is the system identifier of the document entity or of the external parsed entity in which the markup that triggered the event appears.~~

~~If the system identifier is a URL, the parser must resolve it fully before passing it to the application.~~

Returns:

~~A string containing the system identifier, or null if none is available.~~

See Also:

[getPublicId\(\)](#)

getLineNumber

```
int getLineNumber()
```

~~Return the line number where the current document event ends.~~

Warning: ~~The return value from the method is intended only as an approximation for the sake of~~

error reporting; it is not intended to provide sufficient information to edit the character content of the original XML document.

The return value is an approximation of the line number in the document entity or external parsed entity where the markup that triggered the event appears.

Returns:

The line number, or -1 if none is available.

See Also:

[getColumnNumber\(\)](#)

getColumnNumber

```
int getColumnNumber()
```

Return the character position where the current document event ends.

Warning: The return value from the method is intended only as an approximation for the sake of error reporting; it is not intended to provide sufficient information to edit the character content of the original XML document.

The return value is an approximation of the column number in the document entity or external parsed entity where the markup that triggered the event appears.

Returns:

The column number, or -1 if none is available.

See Also:

[getLineNumber\(\)](#)

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Overview

As of now i am **don't** have xslt engine has been implemented this feature

PREV CLASS

SUMMARY:

```
logger.info(" StAXResult "+transformerFactory.getFeature(StAXResult.FEATURE));
logger.info(" StAXSource "+transformerFactory.getFeature(StAXSource.FEATURE));
above two statements are return false
```

4 - Jan - 09

1 - Nov - 08

2 - methods

1 - getter StreamWriter
1 - getter EventWriter

javax.xml.transform.stax

Class StAXResult

java.lang.Object

└─ **javax.xml.transform.stax.StAXResult****All Implemented Interfaces:**[Result](#)public class **StAXResult**

extends java.lang.Object

implements [Result](#)

Acts as a holder for an XML [Result](#) in the form of a StAX writer, i.e. [XMLStreamWriter](#) or [XMLEventWriter](#). StAXResult can be used in all cases that accept a Result, e.g. [Transformer](#), [Validator](#) which accept Result as input.

Since:

1.6

Version:

\$Revision: 1.5 \$, \$Date: 2006/06/28 15:00:35 \$

Author:[Neeraj Bajaj](#), [Jeff Suttor](#)**See Also:**[JSR 173: Streaming API for XML](#), [XMLStreamWriter](#), [XMLEventWriter](#)**Field Summary**

static java. lang.String	FEATURE If TransformerFactory.getFeature(String name) returns true when passed this value as an argument, the Transformer supports Result output of this type.
-----------------------------	--

Fields inherited from interface javax.xml.transform.Result

[PI_DISABLE_OUTPUT_ESCAPING](#), [PI_ENABLE_OUTPUT_ESCAPING](#)

Constructor Summary

StAXResult (XMLEventWriter xmlEventWriter)
Creates a new instance of a StAXResult by supplying an XMLEventWriter .
StAXResult (XMLStreamWriter xmlStreamWriter)
Creates a new instance of a StAXResult by supplying an XMLStreamWriter .

Method Summary

java.lang. String	getSystemId ()	by inheritance	The returned system identifier is always null.
XMLEventWriter	getXMLEventWriter ()		Get the XMLEventWriter used by this StAXResult.
XMLStreamWriter	getXMLStreamWriter ()		Get the XMLStreamWriter used by this StAXResult.
void	setSystemId (java.lang.String systemId)	by inheritance	In the context of a StAXResult, it is not appropriate to explicitly set the system identifier.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(String name\)](#) returns true when passed this value as an argument, the Transformer supports Result output of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

StAXResult

```
public StAXResult(XMLEventWriter xmlEventWriter)
```

Creates a new instance of a `StAXResult` by supplying an [XMLEventWriter](#).

`XMLEventWriter` must be a non-null reference.

Parameters:

`xmlEventWriter` - `XMLEventWriter` used to create this `StAXResult`.

Throws:

`java.lang.IllegalArgumentException` - If `xmlEventWriter == null`.

StAXResult

```
public StAXResult(XMLStreamWriter xmlStreamWriter)
```

Creates a new instance of a `StAXResult` by supplying an [XMLStreamWriter](#).

`XMLStreamWriter` must be a non-null reference.

Parameters:

`xmlStreamWriter` - `XMLStreamWriter` used to create this `StAXResult`.

Throws:

`java.lang.IllegalArgumentException` - If `xmlStreamWriter == null`.

Method Detail

getXMLEventWriter

```
public XMLEventWriter getXMLEventWriter()
```

~~Get the `XMLEventWriter` used by this `StAXResult`.~~

~~`XMLEventWriter` will be null if this `StAXResult` was created with a `XMLStreamWriter`.~~

Returns:

~~`XMLEventWriter` used by this `StAXResult`.~~

getXMLStreamWriter

```
public XMLStreamWriter getXMLStreamWriter()
```

~~Get the `XMLStreamWriter` used by this `StAXResult`.~~

~~`XMLStreamWriter` will be null if this `StAXResult` was created with a `XMLEventWriter`.~~

Returns:

~~`XMLStreamWriter` used by this `StAXResult`.~~

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

~~In the context of a `StAXResult`, it is not appropriate to explicitly set the system identifier. The~~

~~XML.EventWriter or XML.StreamWriter used to construct this StAXResult determines the system identifier of the XML result.~~

~~An UnsupportedOperationException is **always** thrown by this method.~~

Specified by:

~~[setSystemId](#) in interface [Result](#)~~

Parameters:

~~systemId - Ignored.~~

Throws:

~~java.lang.UnsupportedOperationException - Is **always** thrown by this method.~~

getSystemId

```
public java.lang.String getSystemId()
```

~~The returned system identifier is always `null`.~~

Specified by:

~~[getSystemId](#) in interface [Result](#)~~

Returns:

~~The returned system identifier is always `null`.~~

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Overview As of now i am **not** have xslt engine has been implemented this feature

PREVIEW
SUMMARY

```
logger.info(" StAXResult "+transformerFactory.getFeature(StAXResult.FEATURE));
logger.info(" StAXSource "+transformerFactory.getFeature(StAXSource.FEATURE));
```

 above two statements are return **false**

1 - Nov - 08

javax.xml.transform.stax

Class StAXSource

java.lang.Object

└─ javax.xml.transform.stax.StAXSource

2 - methods

1 - getter for StreamReader
1 - getter for EventReader

All Implemented Interfaces:

[Source](#)

public class **StAXSource**

extends java.lang.Object

implements [Source](#)

Acts as a **holder** for an XML [Source](#) in the form of a StAX reader, i.e. [XMLStreamReader](#) or [XMLEventReader](#). StAXSource can be used in all cases that accept a Source, e.g. [Transformer](#), [Validator](#) which accept Source as input.

StAXSources are consumed during processing and are not reusable.

Since:

1.6

Version:

\$Revision: 1.9 \$, \$Date: 2007/04/13 20:22:33 \$

Author:

[Neeraj Bajaj](#), [Jeff Suttor](#)

See Also:

[JSR 173: Streaming API for XML](#), [XMLStreamReader](#), [XMLEventReader](#)

Field Summary

static java. lang.String	FEATURE If TransformerFactory.getFeature(String name) returns true when passed this value as an argument, the Transformer supports Source input of this type.
-----------------------------	---

Constructor Summary

StAXSource (XMLEventReader xmlEventReader)
Creates a new instance of a StAXSource by supplying an XMLEventReader .
StAXSource (XMLStreamReader xmlStreamReader)
Creates a new instance of a StAXSource by supplying an XMLStreamReader .

Method Summary

java.lang. String	getSystemId () by inheritance Get the system identifier used by this StAXSource.
XMLEventReader	getXMLEventReader () Get the XMLEventReader used by this StAXSource.
XMLStreamReader	getXMLStreamReader () Get the XMLStreamReader used by this StAXSource.
void	setSystemId (java.lang.String systemId) In the context of a StAXSource by inheritance appropriate to explicitly set the system identifier.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
--

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(String name\)](#) returns true when passed this value as an argument, the Transformer supports Source input of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

StAXSource

```
public StAXSource(XMLEventReader xmlEventReader)
    throws XMLStreamException
```

Creates a new instance of a StAXSource by supplying an [XMLEventReader](#).

XMLEventReader must be a non-null reference.

XMLEventReader must be in [XMLStreamConstants.START_DOCUMENT](#) or [XMLStreamConstants.START_ELEMENT](#) state.

Parameters:

xmlEventReader - XMLEventReader used to create this StAXSource.

Throws:

[XMLStreamException](#) - If xmlEventReader access throws an Exception.
 java.lang.IllegalArgumentException - If xmlEventReader == null.
 java.lang.IllegalStateException - If xmlEventReader is not in [XMLStreamConstants.START_DOCUMENT](#) or [XMLStreamConstants.START_ELEMENT](#) state.

StAXSource

```
public StAXSource(XMLStreamReader xmlStreamReader)
```


Creates a new instance of a StAXSource by supplying an [XMLStreamReader](#).

XMLStreamReader must be a non-null reference.

XMLStreamReader must be in [XMLStreamConstants.START_DOCUMENT](#) or [XMLStreamConstants.START_ELEMENT](#) state.

Parameters:

xmlStreamReader - XMLStreamReader used to create this StAXSource.

Throws:

java.lang.IllegalArgumentException - If xmlStreamReader == null.

java.lang.IllegalStateException - If xmlStreamReader is not in XMLStreamConstants.START_DOCUMENT or XMLStreamConstants.START_ELEMENT state.

Method Detail

getXMLEventReader

```
public XMLEventReader getXMLEventReader()
```

~~Get the XMLEventReader used by this StAXSource~~

~~XMLEventReader will be null if this StAXSource was created with a XMLStreamReader~~

Returns:

~~XMLEventReader used by this StAXSource~~

getXMLStreamReader

```
public XMLStreamReader getXMLStreamReader()
```

~~Get the XMLStreamReader used by this StAXSource~~

~~XMLStreamReader will be null if this StAXSource was created with a XMLEventReader~~

Returns:

~~XMLStreamReader used by this StAXSource~~

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

~~In the context of a StAXSource, it is not appropriate to explicitly set the system identifier. The XMLStreamReader or XMLEventReader used to construct this StAXSource determines the system identifier of the XML source.~~

~~An UnsupportedOperationException is **always** thrown by this method.~~

Specified by:

~~[setSystemId](#) in interface [Source](#)~~

Parameters:

~~systemId –Ignored.~~

Throws:

~~java.lang.UnsupportedOperationException –Is **always** thrown by this method.~~

getSystemId

```
public java.lang.String getSystemId()
```

~~Get the system identifier used by this StAXSource~~

~~The XMLStreamReader or XMLEventReader used to construct this StAXSource is queried to determine the system identifier of the XML source.~~

~~The system identifier may be null or an empty "" String~~

Specified by:

[getSystemId](#) in interface [Source](#)

Returns:

~~System identifier used by this [StAXSource](#)~~

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4 - Jan -09

javax.xml.transform.stream

Class StreamResult

java.lang.Object



```

graph TD
    Object[java.lang.Object] --> StreamResult[javax.xml.transform.stream.StreamResult]
  
```

All Implemented Interfaces:

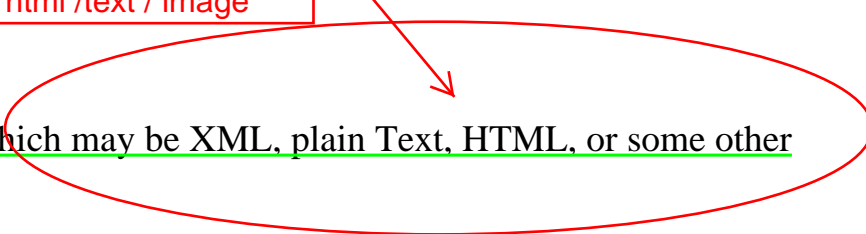
[Result](#)

```
public class StreamResult
```

extends java.lang.Object

implements [Result](#)

actually this one have to use if
output be html /text / image



Acts as an holder for a transformation result, which may be XML, plain Text, HTML, or some other form of markup.

Author:

[Jeff Suttor](#)

Field Summary

 static java.
lang.String

[FEATURE](#)

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Result output of this type.

Fields inherited from interface javax.xml.transform.[Result](#)

[PI_DISABLE_OUTPUT_ESCAPING](#), [PI_ENABLE_OUTPUT_ESCAPING](#)

Constructor Summary

StreamResult ()

Zero-argument default constructor.

StreamResult (java.io.File f) ✓ 1

Construct a StreamResult from a File.

StreamResult (java.io.OutputStream outputStream) ✓ 2

Construct a StreamResult from a byte stream.

StreamResult (java.lang.String systemId) ✓ 3

Construct a StreamResult from a URL.

StreamResult (java.io.Writer writer) ✓ 4

Construct a StreamResult from a character stream.

Method Summary

java.io. OutputStream	<u>getOutputStream</u> () 1	Get the byte stream that was set with setOutputStream.
java.lang. String	<u>getSystemId</u> () by inheritance	Get the system identifier that was <u>set with setSystemId</u> .
java.io. Writer	<u>getWriter</u> () 3	Get the character stream that was set with setWriter.
void	<u>setOutputStream</u> (java.io.OutputStream outputStream) 4	Set the ByteStream that is to be written to.
void	<u>setSystemId</u> (java.io.File f) where is the getter method for "File"	Set the system ID from a File reference.
void	<u>setSystemId</u> (java.lang.String systemId) by inheritance	Set the systemID that may be used in assoc <u>byte or character stream, or, if neither is set, use this value as a writeable URI</u> (probably a file name).
void	<u>setWriter</u> (java.io.Writer writer)	Set the writer that is to receive the result.

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,  
toString, wait, wait, wait
```

Field Detail

FEATURE

```
public static final java.lang.String FEATURE
```

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Result output of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

StreamResult


```
public StreamResult()
```

Zero-argument default constructor.

StreamResult

```
public StreamResult(java.io.OutputStream outputStream)
```

Construct a StreamResult from a byte stream. Normally, a stream should be used rather than a reader, so that the transformer may use instructions contained in the transformation instructions to control the encoding.



Parameters:

outputStream - A valid OutputStream reference.

StreamResult

```
public StreamResult(java.io.Writer writer)
```

Construct a StreamResult from a character stream. Normally, a stream should be used rather than a reader, so that the transformer may use instructions contained in the transformation instructions to control the encoding. However, there are times when it is useful to write to a character stream, such as when using a StringWriter.

Parameters:

`writer` - A valid Writer reference.

StreamResult

```
public StreamResult(java.lang.String systemId)
```

Construct a StreamResult from a URL.

Parameters:

`systemId` - Must be a String that conforms to the URI syntax.

StreamResult

```
public StreamResult(java.io.File f)
```

Construct a StreamResult from a File.

Parameters:

`f` - Must a non-null File reference.

Method Detail

setOutputStream

```
public void setOutputStream(java.io.OutputStream outputStream)
```

Set the ByteStream that is to be written to. Normally, a stream should be used rather than a reader, so that the transformer may use instructions contained in the transformation instructions to control the encoding.

Parameters:

outputStream - A valid OutputStream reference.

getOutputStream

```
public java.io.OutputStream getOutputStream()
```

Get the byte stream that was set with setOutputStream.

Returns:

The byte stream that was set with setOutputStream, or null if setOutputStream or the ByteStream constructor was not called.

setWriter

```
public void setWriter(java.io.Writer writer)
```

Set the writer that is to receive the result. Normally, a stream should be used rather than a writer, so that the transformer may use instructions contained in the transformation instructions to control the encoding. However, there are times when it is useful to write to a writer, such as when using a StringWriter.

Parameters:

writer - A valid Writer reference.

getWriter

```
public java.io.Writer getWriter()
```


Get the character stream that was set with `setWriter`.

Returns:

The character stream that was set with `setWriter`, or null if `setWriter` or the `Writer` constructor was not called.

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

Set the `systemId` that may be used in association with the byte or character stream, or, if neither is set, use this value as a writeable URI (probably a file name).

Specified by:

[setSystemId](#) in interface [Result](#)

Parameters:

`systemId` - The system identifier as a URI string.

setSystemId

```
public void setSystemId(java.io.File f)
```

Set the system ID from a `File` reference.

Parameters:

`f` - Must a non-null `File` reference.

getSystemId

```
public java.lang.String getSystemId()
```

Get the system identifier that was set with `setSystemId`.

Specified by:

[getSystemId](#) in interface [Result](#)

Returns:

The system identifier that was set with setSystemId, or null if setSystemId was not called.

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javax.xml.transform.stream

Class StreamSource

java.lang.Object

└─ javax.xml.transform.stream.StreamSource

it has 7 methods

2 - setter / getter for InputStream

2 - getter / setter for Reader

3 - getter / setter for public id

All Implemented Interfaces:

[Source](#)public class **StreamSource**

extends java.lang.Object

implements [Source](#)Acts as an holder for a transformation Source in the form of a stream of XML markup.*Note:* Due to their internal use of either a Reader or InputStream instance, StreamSource instances may only be used once. OK

Version:

\$Revision: 1.5 \$, \$Date: 2005/11/21 05:57:19 \$

Author:

[Jeff Suttor](#)

Field Summary

static java.
lang.String

[FEATURE](#)

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Source input of this type.

Constructor Summary

StreamSource ()

Zero-argument default constructor.

StreamSource (java.io.File f)

Construct a StreamSource from a File.

StreamSource (java.io.InputStream inputStream)

Construct a StreamSource from a byte stream.

StreamSource (java.io.InputStream inputStream, java.lang.String systemId)

Construct a StreamSource from a byte stream.

StreamSource (java.io.Reader reader)

Construct a StreamSource from a character reader.

StreamSource (java.io.Reader reader, java.lang.String systemId)

Construct a StreamSource from a character reader.

StreamSource (java.lang.String systemId)

Construct a StreamSource from a URL.

Method Summary

java.io. InputStream	<u>getInputStream</u> ()	Get the byte stream that was set with setByteStream.
java.lang. String	<u>getPublicId</u> ()	Get the public identifier that was set with setPublicId.
java.io. Reader	<u>getReader</u> ()	Get the character stream that was set with setReader.
java.lang. String	<u>getSystemId</u> ()	Get the system identifier that was set with setSystemId.
void	<u>setInputStream</u> (java.io.InputStream inputStream)	Set the byte stream to be used as input.
void	<u>setPublicId</u> (java.lang.String publicId)	Set the public identifier for this Source.

void	<u>setReader</u> (java.io.Reader reader)
	Set the input to be a character reader.
void	<u>setSystemId</u> (java.io.File f) 
	Set the system ID from a File reference. <div>useful for SourceLocator</div>
void	<u>setSystemId</u> (java.lang.String systemId) <div>by inheritance</div>
	Set the system identifier for this Source.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

FEATURE

public static final java.lang.String **FEATURE**

If [TransformerFactory.getFeature\(java.lang.String\)](#) returns true when passed this value as an argument, the Transformer supports Source input of this type.

See Also:

[Constant Field Values](#)

Constructor Detail

StreamSource

public **StreamSource**()

Zero-argument default constructor. If this constructor is used, and no Stream source is set using [setInputStream\(java.io.InputStream inputStream\)](#) or [setReader\(java.io.Reader reader\)](#), then the Transformer will create an empty source InputStream using new `InputStream()`.

See Also:[Transformer.transform\(Source xmlSource, Result outputTarget\)](#)**StreamSource**

```
public StreamSource(java.io.InputStream inputStream)
```

Construct a StreamSource from a byte stream. Normally, a stream should be used rather than a reader, so the XML parser can resolve character encoding specified by the XML declaration.

If this constructor is used to process a stylesheet, normally setSystemId should also be called, so that relative URI references can be resolved.

Parameters:

inputStream - A valid InputStream reference to an XML stream.

StreamSource

this is path Of XSL
file

```
public StreamSource(java.io.InputStream inputStream,  
                    java.lang.String systemId)
```

Construct a StreamSource from a byte stream. Normally, a stream should be used rather than a reader, so that the XML parser can resolve character encoding specified by the XML declaration.

This constructor allows the systemID to be set in addition to the input stream, which allows relative URIs to be processed.

Parameters:

inputStream - A valid InputStream reference to an XML stream.

systemId - Must be a String that conforms to the URI syntax.

StreamSource

```
public StreamSource(java.io.Reader reader)
```

Construct a `StreamSource` from a character reader. Normally, a stream should be used rather than a reader, so that the XML parser can resolve character encoding specified by the XML declaration. However, in many cases the encoding of the input stream is already resolved, as in the case of reading XML from a `StringReader`.

Slow

Parameters:

`reader` - A valid `Reader` reference to an XML character stream.

StreamSource

```
public StreamSource(java.io.Reader reader,
                     java.lang.String systemId)
```

Construct a `StreamSource` from a character reader. Normally, a stream should be used rather than a reader, so that the XML parser may resolve character encoding specified by the XML declaration. However, in many cases the encoding of the input stream is already resolved, as in the case of reading XML from a `StringReader`.

Parameters:

`reader` - A valid `Reader` reference to an XML character stream.

`systemId` - Must be a `String` that conforms to the URI syntax.

StreamSource

```
public StreamSource(java.lang.String systemId)
```

Construct a `StreamSource` from a URL.

Parameters:

`systemId` - Must be a `String` that conforms to the URI syntax.

must call this method if the actual source is XSL rather than XML

StreamSource

```
public StreamSource(java.io.File f)
```

Construct a StreamSource from a File.

Parameters:

`f` - Must a non-null File reference.

Method Detail

setInputStream

```
public void setInputStream(java.io.InputStream inputStream)
```

Set the byte stream to be used as input. Normally, a stream should be used rather than a reader, so that the XML parser can resolve character encoding specified by the XML declaration.

If this Source object is used to process a stylesheet, normally `setSystemId` should also be called, so that relative URL references can be resolved.

Parameters:

`inputStream` - A valid `InputStream` reference to an XML stream.

getInputStream

```
public java.io.InputStream getInputStream()
```

Get the byte stream that was set with `setByteStream`.

Returns:

The byte stream that was set with `setByteStream`, or null if `setByteStream` or the `ByteStream` constructor was not called.

setReader

```
public void setReader(java.io.Reader reader)
```


Set the input to be a character reader. Normally, a stream should be used rather than a reader, so that the XML parser can resolve character encoding specified by the XML declaration. However, in many cases the encoding of the input stream is already resolved, as in the case of reading XML from a `StringReader`.

Parameters:

`reader` — A valid Reader reference to an XML `CharacterStream`.

getReader

```
public java.io.Reader getReader()
```

Get the character stream that was set with `setReader`.

Returns:

The character stream that was set with `setReader`, or null if `setReader` or the Reader constructor was not called.

setPublicId

```
public void setPublicId(java.lang.String publicId)
```

Set the public identifier for this Source.

The public identifier is always optional: if the application writer includes one, it will be provided as part of the location information.

Parameters:

`publicId` — The public identifier as a string.

getPublicId

```
public java.lang.String getPublicId()
```

~~Get the public identifier that was set with `setPublicId`.~~

Returns:

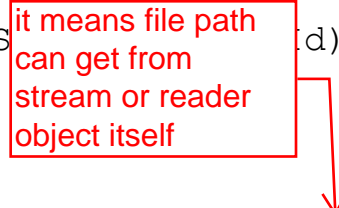
~~The public identifier that was set with `setPublicId`, or null if `setPublicId` was not called.~~

setSystemId

```
public void setSystemId(java.lang.String systemId)
```

Set the system identifier for this Source.

it means file path
can get from
stream or reader
object itself



The system identifier is optional if there is a byte stream or a character stream, but it is still useful to provide one, since the application can use it to resolve relative URIs and can include it in error messages and warnings (the parser will attempt to open a connection to the URI only if there is no byte stream or character stream specified).

Specified by:

[setSystemId](#) in interface [Source](#)

Parameters:

systemId - The system identifier as a URL string.

getSystemId

```
public java.lang.String getSystemId()
```

~~Get the system identifier that was set with `setSystemId`.~~

Specified by:

[getSystemId](#) in interface [Source](#)

Returns:

~~The system identifier that was set with `setSystemId`, or null if `setSystemId` was not called.~~

setSystemId

```
public void setSystemId(java.io.File f)
```



~~Set the system ID from a File reference.~~

Parameters:

~~f — Must a non-null File reference.~~

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javax.xml.transform

Interface Templates

it has only 2 methods

the implementation of this template is optional

To reuse a single `Template` instance in multiple concurrent threads, multiple `Transformer` instances would have to be created via the `Templates.newTransformer()` factory method

when the same XSL file used for many time, it can be saved into templates. it is like load only one time and use many time. Then create transformer from this templates and use. it is threadsafe. This one of best practice

An object that implements this interface is the runtime representation of processed transformation instructions.

that is XSL file

Templates must be threadsafe for a given instance over multiple threads running concurrently, and may be used multiple times in a given session.

returned property object will have entries those are declared in given XSL file's xsl:output tag (So, only existing output properties in XSL file)

Method Summary

java.util.Properties	getOutputProperties () Get the properties corresponding to the effective <u>xsl:output element</u> .
Transformer	newTransformer () Create a new transformation context for <u>this Templates object</u> .

Method Detail

newTransformer

[Transformer](#) **newTransformer** ()
throws [TransformerConfigurationException](#)

Create a new transformation context for this Templates object.

Returns:

A valid non-null instance of a Transformer.

Throws:

[TransformerConfigurationException](#) - if a Transformer can not be created.

getOutputProperties

i have skipped. Gets hands on at the time usage (3 - jan -09)

```
java.util.Properties getOutputProperties()
```

Get the properties corresponding to the effective [xsl:output](#) element. The object returned will be a clone of the internal values. Accordingly, it can be mutated without mutating the Templates object, and then handed in to [Transformer.setOutputProperties\(java.util.Properties\)](#).

The properties returned should contain properties [set by the stylesheet](#), and [these properties](#) are "defaulted" by default properties specified by [section 16 of the XSL Transformations \(XSLT\) W3C Recommendation](#). The properties that were specifically [set by the stylesheet](#) should be in the [base Properties list](#), while the XSLT default properties that [were not specifically set](#) should be in the ["default" Properties list](#). Thus, `getOutputProperties().getProperty(String key)` will obtain any property in that was set by the stylesheet, *or* the default properties, while `getOutputProperties().get(String key)` will only retrieve properties that were explicitly set in the stylesheet.

For XSLT, [Attribute Value Templates](#) attribute values will be returned unexpanded (since there is no context at this point). The namespace prefixes inside Attribute Value Templates will be unexpanded, so that they remain valid XPath values.

Returns:

A Properties object, never null.

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SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

we have to call XMLReader.parser() method explicitly when using SAXTransformerFactory and no need to call transform method . But in SAXSource we never call parse method of XMLReader explicitly and but have to call transform() method on transformer

javax.xml.transform.sax

Interface TemplatesHandler

All Superinterfaces:

[ContentHandler](#)

it has 3 methods

2 - getter /setter for System id
1 - getter for Templates

Parsing an XSL file by SAX API and create Templates from that.

Actually this idea no need. already super methods are available in TransformerFactory

```
public interface TemplatesHandler
```

so, this is one of way to load XSL file and represent as Templates object . But Dont use this API

extends [ContentHandler](#)

it used to parse an XSL file not xml file using SAX

A SAX ContentHandler that may be used to process SAX parse events (**parsing transformation instructions**) into a Templates object.

Note that TemplatesHandler does not need to implement LexicalHandler.

Method Summary

java. lang. String	getSystemId () Get the base ID (URI or system ID) from where relative URLs will be resolved.
Templates	getTemplates () When a TemplatesHandler object is used as a ContentHandler for the parsing of transformation instructions , it creates a Templates object, which the caller can get once the SAX events have <u>been completed</u> .
void	setSystemId (java.lang.String systemID) Set the base ID (URI or system ID) for the Templates object created by this builder.

Methods inherited from interface org.xml.sax.[ContentHandler](#)

[characters](#), [endDocument](#), [endElement](#), [endPrefixMapping](#),
[ignorableWhitespace](#), [processingInstruction](#), [setDocumentLocator](#),
[skippedEntity](#), [startDocument](#), [startElement](#), [startPrefixMapping](#)

Method Detail

getTemplates

call this method, after
paring of XSL file over.

[Templates](#) **getTemplates**()

When a TemplatesHandler object is used as a ContentHandler for the parsing of transformation instructions, it creates a Templates object, which the caller can get once the SAX events have been completed.

Returns:

The Templates object that was created during the SAX event process, or null if no Templates object has been created.

setSystemId

void **setSystemId**(java.lang.String systemID)

Set the base ID (URI or system ID) for the Templates object created by this builder. This must be set in order to resolve relative URIs in the stylesheet. This must be called before the startDocument event.

ok. careful
param.

Parameters:

systemID - Base URI for this stylesheet.

getSystemId

java.lang.String **getSystemId**()

Get the base ID (URI or system ID) from where relative URLs will be resolved.

Returns:

The systemID that was set with [setSystemId\(java.lang.String\)](#).

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class Use Tree

it has 13 methods

- 4 - getter/setter for output properties
- 3 - getter/setter/clear template parameter
- 2 - setter/getter URIResolver
- 2 - setter/getter ErrorListener
- 2 - Transformer related (reset, transform)

SUMMARY: NESTED | FIELD | [CONSTR](#) | [METHOD](#)

javax.xml.transform

Class Transformer

java.lang.Object

└─ **javax.xml.transform.Transformer**

i have skipped Parameter
<xsl:param> related methods.

learn at the time usage (3 -
jan - 08)

public abstract class **Transformer**

extends java.lang.Object

An instance of this abstract class can transform a source tree into a result tree.

An instance of this class can be obtained with the [TransformerFactory.newTransformer](#) method. This instance may then be used to process XML from a variety of sources and write the transformation output to a variety of sinks.

An object of this class may not be used in multiple threads running concurrently. Different Transformers may be used concurrently by different threads.

A [Transformer](#) may be used multiple times. Parameters and output properties are preserved across transformations.

Version:

\$Revision: 1.4 \$, \$Date: 2005/11/03 19:34:22 \$

Author:

[Jeff Sutor](#)

Constructor Summary

protected [Transformer](#) ()

Default constructor is protected on purpose.

Method Summary

abstract void [clearParameters](#) () deals with <xsl:param>

Clear all parameters set with setParameter.

abstract [ErrorListener](#) [getErrorListener](#) ()

Get the error event handler in effect for the transformation.

so, changing value of property in this returned Properties object, wont affect actual Transformation process ??????

abstract java.util. Properties	getOutputProperties () Get a copy of the output properties for the transformation.
abstract java.lang. String	getOutputProperty (java.lang.String name) Get an output property that is in effect for the transformer.
abstract java.lang. Object	getParameter (java.lang.String name) Get a parameter that was explicitly set with setParameter .
abstract URIResolver	getURIResolver () Get an object that will be used to resolve URIs used in document().
void	reset () Reset this Transformer to its original configuration.
abstract void	setErrorListener (ErrorListener listener) Set the error event listener in effect for the transformation.
abstract void	setOutputProperties (java.util.Properties oformat) Set the output properties for the transformation.
abstract void	setOutputProperty (java.lang.String name, java.lang.String value) Set an output property that will be in effect for the transformation.
abstract void	setParameter (java.lang.String name, java.lang.Object value) Add a parameter for the transformation.
abstract void	setURIResolver (URIResolver resolver) Set an object that will be used to resolve URIs used in document().
abstract void	transform (Source xmlSource, Result outputTarget) Transform the XML Source to a Result

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Transformer

protected **Transformer** ()

Default constructor is protected on purpose.

Method Detail

reset

```
public void reset()
```

~~Reset this Transformer to its original configuration.~~

~~Transformer is reset to the same state as when it was created with [TransformerFactory.newTransformer\(\)](#), [TransformerFactory.newTransformer\(Source source\)](#) or [Templates.newTransformer\(\)](#). [reset\(\)](#) is designed to allow the reuse of existing Transformers thus saving resources associated with the creation of new Transformers.~~

The reset Transformer is not guaranteed to have the same [URIResolver](#) or [ErrorListener](#) Objects, e.g. `Object.equals(Object obj)`. It is guaranteed to have a functionally equal [URIResolver](#) and [ErrorListener](#).

Throws:

`java.lang.UnsupportedOperationException` - When implementation does not override this method.

Since:

1.5

transform

```
public abstract void transform(Source xmlSource,  
                                Result outputTarget)  
    throws TransformerException
```

~~Transform the XML Source to a Result. Specific transformation behavior is determined by the settings of the TransformerFactory in effect when the Transformer was instantiated and any modifications made to the Transformer instance.~~

An empty Source is represented as an empty document as constructed by [DocumentBuilder.newDocument\(\)](#). The result of transforming an empty Source depends on the transformation behavior; it is not always an empty Result.

but for StreamSource the behavior different.
StreamSource cannot be empty

Parameters:

`xmlSource` - The [XML input](#) to transform.

`outputTarget` - The Result of transforming the `xmlSource`.

Throws:

[TransformerException](#) - If an unrecoverable error occurs during the course of the transformation.

setParameter

```
public abstract void setParameter(java.lang.String name,
                                   java.lang.Object value)
```

i hope, i can validate
at the time of usage.
now leave....

deals with <xsl:param>

Add a parameter for the transformation.

Pass a qualified name as a two-part string, the namespace URI enclosed in curly braces ({ }), followed by the local name. If the name has a null URL, the String only contain the local name. An application can safely check for a non-null URI by testing to see if the first character of the name is a '{' character.

For example, if a URI and local name were obtained from an element defined with <xyz:foo xmlns:xyz="http://xyz.foo.com/yada/baz.html"/>, then the qualified name would be "{http://xyz.foo.com/yada/baz.html}foo". Note that no prefix is used.

Parameters:

`name` - The name of the parameter, which may begin with a namespace URI in curly braces ({ }).

`value` - The value object. This can be any valid Java object. It is up to the processor to provide the proper object coercion or to simply pass the object on for use in an extension.

Throws:

`java.lang.NullPointerException` - If value is null.

getParameter

```
public abstract java.lang.Object getParameter(java.lang.String name)
```

i hope, i can validate
at the time of usage.
now leave....

deals with <xsl:param>

Get a parameter that was explicitly set with `setParameter`.

This method does not return a default parameter value, which cannot be determined until the node context is evaluated during the transformation process.

Parameters:

`name` - of Object to get

Returns:

A parameter that has been set with `setParameter`.

clearParameters

```
public abstract void clearParameters()
```

i hope, i can validate
at the time of usage.
now leave....

deals with <xsl:param>

Clear all parameters set with `setParameter`.

setURIResolver

```
public abstract void setURIResolver(URIResolver resolver)
```

Set an object that will be used to resolve URIs used in document().

If the resolver argument is null, the [URIResolver](#) value will be cleared and the transformer will no longer have a resolver.

by default, this will be null

Parameters:

`resolver` - An object that implements the [URIResolver](#) interface, or null.

getURIResolver

```
public abstract URIResolver getURIResolver()
```

Get an object that will be used to resolve URIs used in document().

Returns:

An object that implements the [URIResolver](#) interface, or null.

setOutputProperties

deals with <XSL:output./ >

i have skipped. hands on at the time usage (3 - jan -09)

```
public abstract void setOutputProperties(java.util.Properties oformat)
```

Set the output properties for the transformation. These properties will override properties set in the Templates with **xsl:output**.

If argument to this function is null, any properties previously set are removed, and the value will revert to the value defined in the templates object.

Pass a qualified property key name as a two-part string, the namespace URI enclosed in curly braces ({}), followed by the local name. If the name has a null URL, the String only contain the local name. An application can safely check for a non-null URI by testing to see if the first character of the name is a '{' character.

For example, if a URI and local name were obtained from an element defined with `<xyz:foo xmlns:xyz="http://xyz.foo.com/yada/baz.html"/>`, then the qualified name would be `"{http://xyz.foo.com/yada/baz.html}foo"`. Note that no prefix is used.

An `IllegalArgumentException` is thrown if any of the argument keys are not recognized and are not namespace qualified.

Parameters:

`offormat` - A set of output properties that will be used to override any of the same properties in affect for the transformation.

Throws:

`java.lang.IllegalArgumentException` - When keys are not recognized and are not namespace

qualified.

See Also:

[OutputKeys](#), [Properties](#)

getOutputProperties

deals with <XSL:output./ >

i have skipped. Gets hands on at the time usage (3 - jan -09)

```
public abstract java.util.Properties getOutputProperties ()
```

Get a copy of the output properties for the transformation.

The properties returned should contain properties set by the user, and properties set by the stylesheet, and these properties are "defaulted" by default properties specified by section 16 of the XSL Transformations (XSLT) W3C Recommendation. The properties that were specifically set by the user or the stylesheet should be in the base Properties list, while the XSLT default properties that were not specifically set should be the default Properties list. Thus, `getOutputProperties().getProperty(String key)` will obtain any property in that was set by `setOutputProperty(java.lang.String, java.lang.String)`, `setOutputProperties(java.util.Properties)`, in the stylesheet, or the default properties, while `getOutputProperties().get(String key)` will only retrieve properties that were explicitly set by `setOutputProperty(java.lang.String, java.lang.String)`, `setOutputProperties(java.util.Properties)`, or in the stylesheet.

Note that mutation of the Properties object returned will not effect the properties that the transformer contains.

If any of the argument keys are not recognized and are not namespace qualified, the property will be ignored and not returned. In other words the behaviour is not orthogonal with [setOutputProperties](#).

Returns:

A copy of the set of output properties in effect for the next transformation.

See Also:

[OutputKeys](#), [Properties](#), [XSL Transformations \(XSLT\) Version 1.0](#)

setOutputProperty

i have skipped. Gets hands on at the time usage (3 - jan -09)

```
public abstract void setOutputProperty (java.lang.String name,
                                       java.lang.String value)
                                       throws java.lang.IllegalArgumentException
```

deals with <XSL:output./ >

Set an output property that will be in effect for the transformation.

Pass a qualified property name as a two-part string, the namespace URI enclosed in curly braces ({}), followed by the local name. If the name has a null URL, the String only contain the local name. An application can safely check for a non-null URI by testing to see if the first character of the name is a '{' character.

For example, if a URI and local name were obtained from an element defined with `<xyz:foo xmlns:xyz="http://xyz.foo.com/yada/baz.html"/>`, then the qualified name would be `"{http://xyz.foo.com/yada/baz.html}foo"`. Note that no prefix

is used.

The Properties object that was passed to [setOutputProperties\(java.util.Properties\)](#) won't be effected by calling this method.

Parameters:

name - A non-null String that specifies an output property name, which may be namespace qualified.

value - The non-null string value of the output property.

Throws:

java.lang.IllegalArgumentException - If the property is not supported, and is not qualified with a namespace.

See Also:

[OutputKeys](#)

deals with <XSL:output./ >

i have skipped. hands on at the time usage (3 - jan -09)

getOutputProperty

```
public abstract java.lang.String getOutputProperty(java.lang.String name)
                                throws java.lang.IllegalArgumentException
```

Get an output property that is in effect for the transformer.

If a property has been set using [setOutputProperty\(java.lang.String, java.lang.String\)](#), that value will be returned. Otherwise, if a property is explicitly specified in the stylesheet, that value will be returned. If the value of the property has been defaulted, that is, if no value has been set explicitly either with [setOutputProperty\(java.lang.String, java.lang.String\)](#) or in the stylesheet, the result may vary depending on implementation and input stylesheet.

Parameters:

name - A non-null String that specifies an output property name, which may be namespace qualified.

Returns:

The string value of the output property, or null if no property was found.

Throws:

java.lang.IllegalArgumentException - If the property is not supported.

See Also:

[OutputKeys](#)

By, default,
transformer has
NON-NULL
errorListener

setErrorListener

```
public abstract void setErrorListener(ErrorListener listener)
                                throws java.lang.IllegalArgumentException
```

Set the error event listener in effect for the transformation.

ErrorListener
cannot be null

Parameters:

listener - The new error listener.

Throws:

`java.lang.IllegalArgumentException` - if listener is null.

getErrorListener

```
public abstract ErrorListener getErrorListener()
```

By, default,
transformer has
NON-NULL
errorListener

Get the error event handler in effect for the transformation. Implementations must provide a default error listener.

Returns:

The current error handler, which should never be null.

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javax.xml.transform

Class TransformerConfigurationException

java.lang.Object

└ java.lang.Throwable

└ java.lang.Exception

└ [javax.xml.transform.TransformerException](#)

└ **javax.xml.transform.TransformerConfigurationException**

All Implemented Interfaces:

java.io.Serializable

public class **TransformerConfigurationException**

extends [TransformerException](#)

Indicates a serious configuration error.

See Also:

[Serialized Form](#)

Constructor Summary

[TransformerConfigurationException](#) ()

Create a new TransformerConfigurationException with no detail message.

[TransformerConfigurationException](#) (java.lang.String msg)

Create a new TransformerConfigurationException with the String specified as an error message.

[TransformerConfigurationException](#)(java.lang.String message, [SourceLocator](#) locator)

Create a new TransformerConfigurationException from a message and a Locator.

[TransformerConfigurationException](#)(java.lang.String message, [SourceLocator](#) locator, java.lang.Throwable e)

Wrap an existing exception in a TransformerConfigurationException.

[TransformerConfigurationException](#)(java.lang.String msg, java.lang.Throwable e)

Create a new TransformerConfigurationException with the given Exception base cause and detail message.

[TransformerConfigurationException](#)(java.lang.Throwable e)

Create a new TransformerConfigurationException with a given Exception base cause of the error.

Method Summary

Methods inherited from class javax.xml.transform.[TransformerException](#)

[getCause](#), [getException](#), [getLocationAsString](#), [getLocator](#), [getMessageAndLocation](#), [initCause](#), [printStackTrace](#), [printStackTrace](#), [printStackTrace](#), [setLocator](#)

Methods inherited from class java.lang.Throwable

[fillInStackTrace](#), [getLocalizedMessage](#), [getMessage](#), [getStackTrace](#), [setStackTrace](#), [toString](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

TransformerConfigurationException

```
public TransformerConfigurationException()
```

Create a new `TransformerConfigurationException` with no detail message.

TransformerConfigurationException

```
public TransformerConfigurationException(java.lang.String msg)
```

Create a new `TransformerConfigurationException` with the `String` specified as an error message.

Parameters:

`msg` - The error message for the exception.

TransformerConfigurationException

```
public TransformerConfigurationException(java.lang.Throwable e)
```

Create a new `TransformerConfigurationException` with a given `Exception` base cause of the error.

Parameters:

`e` - The exception to be encapsulated in a `TransformerConfigurationException`.

TransformerConfigurationException

```
public TransformerConfigurationException(java.lang.String msg,  
                                           java.lang.Throwable e)
```

Create a new `TransformerConfigurationException` with the given `Exception` base cause and detail message.

Parameters:

e - The exception to be encapsulated in a TransformerConfigurationException
 msg - The detail message.

TransformerConfigurationException

```
public TransformerConfigurationException(java.lang.String message,
                                           SourceLocator locator)
```

Create a new TransformerConfigurationException from a message and a Locator.

This constructor is especially useful when an application is creating its own exception from within a DocumentHandler callback.

Parameters:

message - The error or warning message.
 locator - The locator object for the error or warning.

TransformerConfigurationException

```
public TransformerConfigurationException(java.lang.String message,
                                           SourceLocator locator,
                                           java.lang.Throwable e)
```

Wrap an existing exception in a TransformerConfigurationException.

Parameters:

message - The error or warning message, or null to use the message from the embedded exception.
 locator - The locator object for the error or warning.
 e - Any exception.

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Class TransformerException

`java.lang.Object``└ java.lang.Throwable``└ java.lang.Exception``└ javax.xml.transform.TransformerException`

All Implemented Interfaces:

`java.io.Serializable`

Direct Known Subclasses:

[TransformerConfigurationException](#)

```
public class TransformerException
```

```
extends java.lang.Exception
```

This class specifies an exceptional condition that occurred during the transformation process.

See Also:

[Serialized Form](#)

Constructor Summary

[TransformerException](#) (`java.lang.String` message)Create a new `TransformerException`.

[TransformerException](#) (java.lang.String message,
[SourceLocator](#) locator)

Create a new TransformerException from a message and a Locator.

[TransformerException](#) (java.lang.String message,
[SourceLocator](#) locator, java.lang.Throwable e)

Wrap an existing exception in a TransformerException.

[TransformerException](#) (java.lang.String message, java.lang.
Throwable e)

Wrap an existing exception in a TransformerException.

[TransformerException](#) (java.lang.Throwable e)

Create a new TransformerException wrapping an existing exception.

Method Summary

java.lang. Throwable	getCause () Returns the cause of this throwable or <u>null</u> if the cause is nonexistent or unknown.
java.lang. Throwable	getException () This method retrieves an exception that this <u>exception wraps</u> .
java.lang. String	getLocationAsString () Get the location information as a string.
SourceLocator	getLocator () Method getLocator retrieves an instance of a SourceLocator object that specifies where an error occurred.
java.lang. String	getMessageAndLocation () Get the error message with location information appended.
java.lang. Throwable	initCause (java.lang.Throwable cause) Initializes the <u>cause of this throwable to the specified value</u> .
void	printStackTrace () Print the the trace of methods from where the error originated.
void	printStackTrace (java.io.PrintStream s) Print the the trace of methods from where the error originated.

void	printStackTrace (java.io.PrintWriter s) Print the the trace of methods from where the error originated.
------	---

void	setLocator (SourceLocator location) Method setLocator sets an instance of a SourceLocator object that specifies where an error occurred.
------	---

Methods inherited from class java.lang.Throwable

fillInStackTrace, getLocalizedMessage, getMessage, getStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

TransformerException

```
public TransformerException(java.lang.String message)
```

Create a new TransformerException.

Parameters:

message - The error or warning message.

TransformerException

```
public TransformerException(java.lang.Throwable e)
```

Create a new TransformerException wrapping an existing exception.

Parameters:

e - The exception to be wrapped.

TransformerException

```
public TransformerException(java.lang.String message,  
                             java.lang.Throwable e)
```

Wrap an existing exception in a TransformerException.

This is used for throwing processor exceptions before the processing has started.

Parameters:

message - The error or warning message, or null to use the message from the embedded exception.

e - Any exception

TransformerException

```
public TransformerException(java.lang.String message,  
                             SourceLocator locator)
```

Create a new TransformerException from a message and a Locator.

This constructor is especially useful when an application is creating its own exception from within a DocumentHandler callback.

Parameters:

message - The error or warning message.

locator - The locator object for the error or warning.

TransformerException

```
public TransformerException(java.lang.String message,  
                             SourceLocator locator,  
                             java.lang.Throwable e)
```

Wrap an existing exception in a TransformerException.

Parameters:

`message` - The error or warning message, or null to use the message from the embedded exception.

`locator` - The locator object for the error or warning.

`e` - Any exception

Method Detail

getLocator

```
public SourceLocator getLocator()
```

Method `getLocator` retrieves an instance of a `SourceLocator` object that specifies where an error occurred.

Returns:

A `SourceLocator` object, or null if none was specified.

setLocator

```
public void setLocator(SourceLocator location)
```

Method `setLocator` sets an instance of a `SourceLocator` object that specifies where an error occurred.

Parameters:

`location` - A `SourceLocator` object, or null to clear the location.

getException

```
public java.lang.Throwable getException()
```

This method retrieves an exception that this exception wraps.

Returns:

An Throwable object, or null.

See Also:

[getCause\(\)](#)

getCause

```
public java.lang.Throwable getCause()
```

Returns the cause of this throwable or `null` if the cause is nonexistent or unknown. (The cause is the throwable that caused this throwable to get thrown.)

Overrides:

`getCause` in class `java.lang.Throwable`

initCause

```
public java.lang.Throwable initCause(java.lang.Throwable cause)
```

Initializes the *cause* of this throwable to the specified value. (The cause is the throwable that caused this throwable to get thrown.)

This method can be called at most once. It is generally called from within the constructor, or immediately after creating the throwable. If this throwable was created with [TransformerException\(Throwable\)](#) or [TransformerException\(String, Throwable\)](#), this method cannot be called even once.

Overrides:

`initCause` in class `java.lang.Throwable`

Parameters:

`cause` - the cause (which is saved for later retrieval by the [getCause\(\)](#) method). (A `null` value is permitted, and indicates that the cause is nonexistent or unknown.)

Returns:

a reference to this `Throwable` instance.

Throws:

`java.lang.IllegalArgumentException` - if cause is this throwable. (A throwable cannot be its own cause.)

`java.lang.IllegalStateException` - if this throwable was created with [TransformerException\(Throwable\)](#) or [TransformerException\(String,Throwable\)](#), or this method has already been called on this throwable.

getMessageAndLocation

```
public java.lang.String getMessageAndLocation()
```

Get the error message with location information appended.

Returns:

A `String` representing the error message with location information appended.

getLocationAsString

```
public java.lang.String getLocationAsString()
```

Get the location information as a string.

Returns:

A string with location info, or null if there is no location information.

printStackTrace

```
public void printStackTrace()
```

Print the the trace of methods from where the error originated. This will trace all nested exception objects, as well as this object.

Overrides:

`printStackTrace` in class `java.lang.Throwable`

printStackTrace

```
public void printStackTrace(java.io.PrintStream s)
```

Print the the trace of methods from where the error originated. This will trace all nested exception objects, as well as this object.

Overrides:

`printStackTrace` in class `java.lang.Throwable`

Parameters:

`s` - The stream where the dump will be sent to.

printStackTrace

```
public void printStackTrace(java.io.PrintWriter s)
```

Print the the trace of methods from where the error originated. This will trace all nested exception objects, as well as this object.

Overrides:

`printStackTrace` in class `java.lang.Throwable`

Parameters:

`s` - The writer where the dump will be sent to.

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3 - Jan - 09

javax.xml.transform

Class TransformerFactory

java.lang.Object

```

graph TD
    Object[java.lang.Object] --> TransformerFactory[javax.xml.transform.TransformerFactory]
  
```

Direct Known Subclasses:
[SAXTransformerFactory](#)

SchemaFactory
compiles XSD file,
where as
TransformerFactory
compiles XSL file

it has 14 method

4 - getter / setter ErrorListener / URIResolver
4 - getter / setter for feature / property
2 - get the same instance
2 - get transformer
1 ~ get template
1 - retrieve style sheet associated with XML

the main purpose of this factory is to
CREATE

1. Transformer
2. Templates

public abstract class **TransformerFactory**

extends java.lang.Object

A TransformerFactory instance can be used to create [Transformer](#) and [Templates](#) objects.

The system property that determines which Factory implementation to create is named "javax.xml.transform.TransformerFactory". This property names a concrete subclass of the TransformerFactory abstract class. If the property is not defined, a platform default is be used.

Author:
[Jeff Suttor](#), [Neeraj Bajaj](#)

JAXP can have one utility class
which can have string variable to
hold keys of factory.

i have created a utility class in my
JAXP archicture project

Constructor Summary

protected [TransformerFactory](#) ()

Default constructor is protected on purpose.

Method Summary

abstract [Source](#) [getAssociatedStylesheet](#) ([Source](#) source, java.lang.String media, java.lang.String title, java.lang.String charset)

retrieve if any Style sheet
associated with given XML
file.

input source --> XML file
return source --> XSL file

Get the stylesheet specification(s) associated with the XML Source document via the [xml-stylesheet processing instruction](#) that match the given criteria.

ALL ARE ABSTRACT method

abstract java.lang.Object	getAttribute (java.lang.String name) Allows the user to retrieve specific attributes on the underlying implementation.
abstract ErrorListener	getErrorListener () Get the <u>error</u> event handler for the TransformerFactory.
abstract boolean	getFeature (java.lang.String name) Look up the value of a feature.
abstract URIResolver	getURIResolver () Get the object that is used by default during the transformation to resolve URIs used in <u>document()</u> , <u>xsl:import</u> , or <u>xsl:include</u> .
static TransformerFactory	newInstance () Obtain a new instance of a TransformerFactory.
static TransformerFactory	newInstance (java.lang.String factoryClassName, java.lang.ClassLoader classLoader) Obtain a new instance of a TransformerFactory from factory class name.
abstract Templates	newTemplates (Source source) Process the Source in a compiled representation of the source.
abstract Transformer	newTransformer () Create a new Transformer that performs a copy of the Source to the Result.
abstract Transformer	newTransformer (Source source) Process the Source into a Transformer Object.
abstract void	setAttribute (java.lang.String name, java.lang.Object value) Allows the user to set specific attributes on the underlying implementation.
abstract void	setErrorListener (ErrorListener listener) Set the error event listener for the TransformerFactory, which is used for the processing of transformation instructions, and not for the transformation itself.
abstract void	setFeature (java.lang.String name, boolean value) Set a feature for this TransformerFactory and Transformers or Templates created by this factory.
abstract void	setURIResolver (URIResolver resolver) Set an object that is used by default during the transformation to resolve URIs used in document(), xsl:import, or xsl:include.

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait
```

Constructor Detail

TransformerFactory

```
protected TransformerFactory()
```

Default constructor is protected on purpose.

Method Detail

newInstance

```
public static TransformerFactory newInstance()
    throws TransformerFactoryConfigurationError
```

Obtain a new instance of a [TransformerFactory](#). This static method creates a new factory instance. This method uses the following ordered lookup procedure to determine the [TransformerFactory](#) implementation class to load:

1. Use the `javax.xml.transform.TransformerFactory` system property.
2. Use the properties file "lib/jaxp.properties" in the JRE directory. This configuration file is in standard `java.util.Properties` format and contains the fully qualified name of the implementation class with the key being the system property defined above. The `jaxp.properties` file is read only once by the JAXP implementation and its values are then cached for future use. If the file does not exist when the first attempt is made to read from it, no further attempts are made to check for its existence. It is not possible to change the value of any property in `jaxp.properties` after it has been read for the first time.
3. Use the [Services API](#) (as detailed in the JAR specification), [if available](#), to determine the classname. The Services API will look for a classname in the file `META-INF/services/javax.xml.transform.TransformerFactory` in jars available to the runtime.
- Platform default [TransformerFactory](#) instance.

Once an application has obtained a reference to a [TransformerFactory](#) it can use the factory to configure and obtain transformer instances.

Returns:

new [TransformerFactory](#) instance, **never null.**

Throws:

[TransformerFactoryConfigurationError](#) - Thrown if the implementation is not available or cannot be instantiated.

newInstance

```
public static TransformerFactory newInstance(java.lang.String factoryClassName,
                                             java.lang.ClassLoader classLoader)
    throws TransformerFactoryConfigurationError
```

Obtain a new instance of a [TransformerFactory](#) from factory class name. This function is useful when there are multiple providers in the classpath. It gives more control to the application as it can specify which provider should be loaded.

Once an application has obtained a reference to a [TransformerFactory](#) it can use the factory to configure and obtain transformer instances.

Tip for Trouble-shooting

Setting the [jaxp.debug](#) system property will cause this method to print a lot of debug messages to [System.err](#) about what it is doing and where it is looking at.

If you have problems try:

```
java -Djaxp.debug=1 YourProgram ....
```

Parameters:

[factoryClassName](#) - fully qualified factory class name that provides implementation of [javax.xml.transform.TransformerFactory](#).

[classLoader](#) - [ClassLoader](#) used to load the factory class. If [null](#) [current Thread's context classLoader](#) is used to load the factory class.

Returns:

[new TransformerFactory](#) instance, never null.

Throws:

[TransformerFactoryConfigurationError](#) - if [factoryClassName](#) is null, or the factory class cannot be loaded, instantiated.

Since:

1.6

See Also:

[newInstance\(\)](#)

newTransformer

```
public abstract Transformer newTransformer(Source source)
    throws TransformerConfigurationException
```

use this method to associate a XSL file for the transformation

Process the Source into a Transformer Object. **The Source is an XSLT document** that conforms to [XSL Transformations \(XSLT\) Version 1.0](#). Care must be taken not to use this Transformer in multiple Threads running concurrently. Different TransformerFactories can be used concurrently by different Threads.

Parameters:

source - Source of XSLT document used to create Transformer. Examples of XML Sources include [DOMSource](#), [SAXSource](#), and [StreamSource](#).

Returns:

A Transformer object that may be used to perform a transformation in a single Thread, **never null**.

Throws:

[TransformerConfigurationException](#) - Thrown if there are errors when parsing the Source or it is not possible to create a Transformer instance.

See Also:

[XSL Transformations \(XSLT\) Version 1.0](#)

newTransformer

use this method, when DONT have any XSL file for this transformation

source and result can be mixed like sax and dom

```
public abstract Transformer newTransformer ()
    throws TransformerConfigurationException
```

Create a new Transformer that performs a **copy of** the Source to the Result. i.e. the "*identity transform*".

Returns:

A Transformer object that may be used to perform a transformation in a single thread, never null.

Throws:

[TransformerConfigurationException](#) - When it is not possible to create a Transformer instance.

newTemplates

Source cannot be either null or empty object. (i tested)

this is XSL file

```
public abstract Templates newTemplates (Source source)
    throws TransformerConfigurationException
```

Process the Source into a Templates object, which is a compiled representation of the source. This Templates object may then be used concurrently across multiple threads. Creating a Templates object allows the TransformerFactory to do detailed performance optimization of transformation instructions, without penalizing runtime transformation.

Parameters:

source - An object that holds a URL, input stream, etc.

Returns:

~~A Templates object capable of being used for transformation purposes, never null~~

Throws:

~~[TransformerConfigurationException](#) - When parsing to construct the Templates object fails.~~

getAssociatedStylesheet

```
public abstract Source getAssociatedStylesheet(Source source,
    java.lang.String media,
    java.lang.String title,
    java.lang.String charset)
    throws TransformerConfigurationException
```

this is another way to apply XSL to xml.
 1. apply xsl by programming
 2. apply xsl by xml file itself

so, we mostly dont use this method

Get the stylesheet specification(s) associated with the XML Source document via the [xml-stylesheet processing instruction](#) that match the given criteria. Note that it is possible to return several stylesheets, in which case they are applied as if they were a list of imports or cascades in a single stylesheet.

Parameters:

source - The XML source document.

media - The media attribute to be matched. May be null, in which case the preferred templates will be used (i.e. alternate = no).

title - The value of the title attribute to match. May be null.

charset - The value of the charset attribute to match. May be null.

Returns:

~~A Source Object suitable for passing to the TransformerFactory~~

Throws:

~~[TransformerConfigurationException](#) - An Exception is thrown if an error occurs during parsing of the source~~

See Also:

[Associating Style Sheets with XML documents Version 1.0](#)

setURIResolver

```
public abstract void setURIResolver(URIResolver resolver)
```

Set an object that is used by default during the transformation to resolve URIs used in document(), [xsl:import](#), or [xsl:include](#).

yes, it can be null

Parameters:

resolver - An object that implements the URIResolver interface, or null.

getURIResolver

```
public abstract URIResolver getURIResolver()
```

Get the object that is used by default during the transformation to resolve URIs used in document(), xsl:import, or xsl:include.

Returns:

The URIResolver that was set with setURIResolver.

setFeature

```
public abstract void setFeature(java.lang.String name,
                                boolean value)
    throws TransformerConfigurationException
```

Set a feature for this [TransformerFactory](#) and [Transformers](#) or [Templates](#) created by this factory.

Feature names are fully qualified URIs. Implementations may define their own features. An [TransformerConfigurationException](#) is thrown if this [TransformerFactory](#) or the [Transformers](#) or [Templates](#) it creates cannot support the feature. It is possible for an [TransformerFactory](#) to expose a feature value but be unable to change its state.

All implementations are required to support the [XMLConstants.FEATURE_SECURE_PROCESSING](#) feature. When the feature is:

- `true`: the implementation will limit XML processing to conform to implementation limits and behave in a secure fashion as defined by the implementation. Examples include resolving user defined style sheets and functions. If XML processing is limited for security reasons, it will be reported via a call to the registered [ErrorListener.fatalError\(TransformerException exception\)](#). See [setErrorListener\(ErrorListener listener\)](#).
- `false`: the implementation will process XML according to the XML specifications without regard to possible implementation limits.

Parameters:

name - Feature name.

value - Is feature state true or false.

Throws:

[TransformerConfigurationException](#) - if this [TransformerFactory](#) or the [Transformers](#) or [Templates](#) it creates cannot support this feature.

[java.lang.NullPointerException](#) - If the name parameter is null.

getFeature

```
public abstract boolean getFeature(java.lang.String name)
```

Look up the value of a feature.

Defined features:

(key : url-value)

StreamSource.FEATURE: http://javax.xml.transform.stream.StreamSource/feature

StreamResult.FEATURE: http://javax.xml.transform.stream.StreamResult/feature

DOMSource.FEATURE: http://javax.xml.transform.dom.DOMSource/feature

DOMResult.FEATURE: http://javax.xml.transform.dom.DOMResult/feature

SAXSource.FEATURE: http://javax.xml.transform.dom.SAXSource/feature

SAXResult.FEATURE: http://javax.xml.transform.dom.SAXResult/feature

SAXTransformerFactory.FEATURE: http://javax.xml.transform.sax.SAXTransformerFactory/feature

SAXTransformerFactory.FEATURE_XMLFILTER: http://javax.xml.transform.sax.

SAXTransformerFactory/feature/xmlfilter

The boolean values of these features for the current XSLT engine can be tested with the `getFeature()` method in the `TransformerFactory` class:

setAttribute

```
public abstract void setAttribute(java.lang.String name,  
                                   java.lang.Object value)
```

Allows the user to set specific attributes on the underlying implementation. An attribute in this context is defined to be an option that the implementation provides. An `IllegalArgumentException` is thrown if the underlying implementation doesn't recognize the attribute.

Parameters:

name - The name of the attribute.

value - The value of the attribute.

Throws:

`java.lang.IllegalArgumentException` - When implementation does not recognize the attribute.

getAttribute

```
public abstract java.lang.Object getAttribute(java.lang.String name)
```

Allows the user to retrieve specific attributes on the underlying implementation. An `IllegalArgumentException` is thrown if the underlying implementation doesn't recognize the attribute.

Parameters:

~~name~~ - The name of the attribute.

Returns:

~~value~~ The value of the attribute.

Throws:

~~java.lang.IllegalArgumentException~~ - When implementation does not recognize the attribute.

setErrorListener

ErrorListener Cannot be Null as
URIResolver. (i tested)

```
public abstract void setErrorListener(EventListener listener)
```

Set the error event listener for the TransformerFactory, which is used for the processing of transformation instructions, and not for the transformation itself. An `IllegalArgumentException` is thrown if the `EventListener` listener is null.

this listener will be notified ONLY while
processing XSL. But not while
transformation of a XML file

Parameters:

listener - The new error listener.

Throws:

`java.lang.IllegalArgumentException` - When listener is null

getErrorListener

```
public abstract EventListener getErrorListener()
```

~~Get the error event handler for the TransformerFactory.~~

Returns:

~~The current error handler, which should never be null.~~

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javax.xml.transform

Class TransformerFactoryConfigurationError

java.lang.Object

└ java.lang.Throwable

└ java.lang.Error

└ **javax.xml.transform.TransformerFactoryConfigurationError**

All Implemented Interfaces:

java.io.Serializable

```
public class TransformerFactoryConfigurationError
```

extends java.lang.Error

Thrown when a problem with configuration with the Transformer Factories exists. This error will typically be thrown when the class of a transformation factory specified in the system properties cannot be found or instantiated.

See Also:

[Serialized Form](#)

Constructor Summary

[**TransformerFactoryConfigurationError**](#) ()

Create a new TransformerFactoryConfigurationError with no detail message.

[**TransformerFactoryConfigurationError**](#) (java.lang.Exception e)

Create a new TransformerFactoryConfigurationError with a given Exception base cause of the error.

[**TransformerFactoryConfigurationError**](#)(java.lang.Exception e, java.lang.String msg)

Create a new TransformerFactoryConfigurationError with the given Exception base cause and detail message.

[**TransformerFactoryConfigurationError**](#)(java.lang.String msg)

Create a new TransformerFactoryConfigurationError with the String specified as an error message.

Method Summary

java. lang. Exception	getException () Return the actual exception (if any) that caused this exception to be raised.
java. lang. String	getMessage () Return the message (if any) for this error .

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

TransformerFactoryConfigurationError

public **TransformerFactoryConfigurationError**()

Create a new TransformerFactoryConfigurationError with no detail mesage.

TransformerFactoryConfigurationError

```
public TransformerFactoryConfigurationError(java.lang.String msg)
```

Create a new `TransformerFactoryConfigurationError` with the `String` specified as an error message.

Parameters:

`msg` - The error message for the exception.

TransformerFactoryConfigurationError

```
public TransformerFactoryConfigurationError(java.lang.Exception e)
```

Create a new `TransformerFactoryConfigurationError` with a given `Exception` base cause of the error.

Parameters:

`e` - The exception to be encapsulated in a `TransformerFactoryConfigurationError`.

TransformerFactoryConfigurationError

```
public TransformerFactoryConfigurationError(java.lang.Exception e,  
                                             java.lang.String msg)
```

Create a new `TransformerFactoryConfigurationError` with the given `Exception` base cause and detail message.

Parameters:

`e` - The exception to be encapsulated in a `TransformerFactoryConfigurationError`

`msg` - The detail message.

Method Detail

getMessage

```
public java.lang.String getMessage()
```

Return the message (if any) for this error . If there is no message for the exception and there is an encapsulated exception then the message of that exception will be returned.

Overrides:

`getMessage` in class `java.lang.Throwable`

Returns:

The error message.

getException

```
public java.lang.Exception getException()
```

Return the actual exception (if any) that caused this exception to be raised.

Returns:

The encapsulated exception, or null if there is none.

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Register this object into SAXParser as contentHandler.
So, really it is handler :) :)

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see my JAXP code to see example of this class

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javax.xml.transform.sax

Interface TransformerHandler

This is Transfer SAXEvents into Result object

All Superinterfaces:

[ContentHandler](#), [DTDHandler](#)

we have to call XMLReader.parser() method explicitly when using SAXTransformerFactory and no need to call transform method . But in SAXSource we never call parse method of XMLReader explicitly and but have to call transform() method on transformer

```
public interface TransformerHandler
```

```
extends ContentHandler, LexicalHandler, DTDHandler
```

it has 4 methods

2 - setter /getter for system id
1 - getter for transformer
1 - setter for Result

A TransformerHandler listens for SAX ContentHandler parse events and transforms them to a Result.

if you want to call transform() method on Transformer for sax then must use SAXSource (this is another api for SAX)

Method Summary

java.lang. String	getSystemId () Get the <u>base ID</u> (URI or system ID) resolved.	it is used ONLY for setting output properties and parameters. But dont call (<i>actually cannot call .. think arguments of transform() method</i>) transform method on this returned Transformer. Simply call parse method on xmlreader / saxparser to execute transformation process
Transformer	getTransformer () Get the Transformer associated with this handler, <u>which is needed in order to set parameters and output properties.</u>	
void	setResult (Result result) Set the Result associated with this TransformerHandler to be used for the transformation.	
void	setSystemId (java.lang.String systemID) Set the <u>base ID</u> (URI or system ID) from where relative URLs will be resolved.	

Methods inherited from interface org.xml.sax.[ContentHandler](#)

[characters](#), [endDocument](#), [endElement](#), [endPrefixMapping](#),
[ignorableWhitespace](#), [processingInstruction](#), [setDocumentLocator](#),
[skippedEntity](#), [startDocument](#), [startElement](#), [startPrefixMapping](#)

Methods inherited from interface org.xml.sax.ext.[LexicalHandler](#)

[comment](#), [endCDATA](#), [endDTD](#), [endEntity](#), [startCDATA](#), [startDTD](#),
[startEntity](#)

Methods inherited from interface org.xml.sax.[DTDHandler](#)

[notationDecl](#), [unparsedEntityDecl](#)

Method Detail

setResult

```
void setResult(Result result)
               throws java.lang.IllegalArgumentException
```

~~Set the [Result](#) associated with this [TransformerHandler](#) to be used for the transformation.~~

Parameters:

~~[result](#) -A [Result](#) instance, should not be null~~

Throws:

~~[java.lang.IllegalArgumentException](#) -if result is invalid for some reason.~~

setSystemId

```
void setSystemId(java.lang.String systemID)
```

~~Set the base ID (URI or system ID) from where relative URLs will be resolved.~~

Parameters:

~~[systemID](#) -Base URI for the source tree.~~

getSystemId

```
java.lang.String getSystemId()
```

~~Get the base ID (URI or system ID) from where relative URLs will be resolved.~~

Returns:

~~The systemID that was set with [setSystemId\(java.lang.String\)](#)~~

getTransformer

```
Transformer getTransformer()
```

it is used **ONLY** for setting output properties and paremeters. But dont call (*actually cannot call .. think arguments of transform() method*) transform method on this returned Transformer. Simply call parse method on xmlreader / saxparser to execute transformation process

Get the Transformer associated with this handler, which is needed in order to set parameters and output properties.

Returns:

Transformer associated with this TransformerHandler.

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javax.xml.transform

it has 1 method

Interface URIResolver

so it is used only with XSL
(Template object)public interface **URIResolver**it is not for
DTD :)

An object that implements this interface that can be called by the processor to turn a URI used in document(), xsl:import, or xsl:include into a Source object.

Method Summary

[Source](#)**[resolve](#)**(java.lang.String href, java.lang.String base)

Called by the processor when it encounters an xsl:include, xsl:import, or document() function.

Method Detail

resolve

[Source](#)**[resolve](#)**(java.lang.String href,
java.lang.String base)
throws [TransformerException](#)

Called by the processor when it encounters an xsl:include, xsl:import, or document() function.

Parameters:

href - An href attribute, which may be relative or absolute.

base - The base URI against which the first argument will be made absolute if the absolute URI is required.

Returns:

A Source object, or null if the href cannot be resolved, and the processor should try to resolve the URI itself.

Throws:

[TransformerException](#) - if an error occurs when trying to resolve the URI.

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