| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV PACKAGE**](http://docs.google.com/javax/xml/transform/dom/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/xml/transform/stax/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/transform/sax/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package javax.xml.transform.sax

This package implements SAX2-specific transformation APIs.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**TemplatesHandler**](http://docs.google.com/javax/xml/transform/sax/TemplatesHandler.html) | A SAX ContentHandler that may be used to process SAX parse events (parsing transformation instructions) into a Templates object. |
| [**TransformerHandler**](http://docs.google.com/javax/xml/transform/sax/TransformerHandler.html) | A TransformerHandler listens for SAX ContentHandler parse events and transforms them to a Result. |

| **Class Summary** | |
| --- | --- |
| [**SAXResult**](http://docs.google.com/javax/xml/transform/sax/SAXResult.html) | Acts as an holder for a transformation Result. |
| [**SAXSource**](http://docs.google.com/javax/xml/transform/sax/SAXSource.html) | Acts as an holder for SAX-style Source. |
| [**SAXTransformerFactory**](http://docs.google.com/javax/xml/transform/sax/SAXTransformerFactory.html) | This class extends TransformerFactory to provide SAX-specific factory methods. |

## Package javax.xml.transform.sax Description

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

The [SAXSource](http://docs.google.com/javax/xml/transform/sax/SAXSource.html) class allows the setting of an [XMLReader](http://docs.google.com/org/xml/sax/XMLReader.html) to be used for "pulling" parse events, and an [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) that may be used to specify the SAX source.

The [SAXResult](http://docs.google.com/javax/xml/transform/sax/SAXResult.html) class allows the setting of a [ContentHandler](http://docs.google.com/org/xml/sax/ContentHandler.html) to be the receiver of SAX2 events from the transformation.

The [SAXTransformerFactory](http://docs.google.com/javax/xml/transform/sax/SAXTransformerFactory.html) extends [TransformerFactory](http://docs.google.com/javax/xml/transform/TransformerFactory.html) to provide factory methods for creating [TemplatesHandler](http://docs.google.com/javax/xml/transform/sax/TemplatesHandler.html), [TransformerHandler](http://docs.google.com/javax/xml/transform/sax/TransformerHandler.html), and [XMLReader](http://docs.google.com/org/xml/sax/XMLReader.html) instances.

To obtain a [SAXTransformerFactory](http://docs.google.com/javax/xml/transform/sax/SAXTransformerFactory.html), the caller must cast the [TransformerFactory](http://docs.google.com/javax/xml/transform/TransformerFactory.html) instance returned from [TransformerFactory.newInstance()](http://docs.google.com/javax/xml/transform/TransformerFactory.html#newInstance()).

The [TransformerHandler](http://docs.google.com/javax/xml/transform/sax/TransformerHandler.html) interface allows a transformation to be created from SAX2 parse events, which is a "push" model rather than the "pull" model that normally occurs for a transformation. Normal parse events are received through the [ContentHandler](http://docs.google.com/org/xml/sax/ContentHandler.html) interface, lexical events such as startCDATA and endCDATA are received through the [LexicalHandler](http://docs.google.com/org/xml/sax/ext/LexicalHandler.html) interface, and events that signal the start or end of disabling output escaping are received via [ContentHandler.processingInstruction(java.lang.String, java.lang.String)](http://docs.google.com/org/xml/sax/ContentHandler.html#processingInstruction(java.lang.String,%20java.lang.String)), with the target parameter being [Result.PI\_DISABLE\_OUTPUT\_ESCAPING](http://docs.google.com/javax/xml/transform/Result.html#PI_DISABLE_OUTPUT_ESCAPING) and [Result.PI\_ENABLE\_OUTPUT\_ESCAPING](http://docs.google.com/javax/xml/transform/Result.html#PI_ENABLE_OUTPUT_ESCAPING). If parameters, output properties, or other features need to be set on the Transformer handler, a [Transformer](http://docs.google.com/javax/xml/transform/Transformer.html) reference will need to be obtained from [TransformerHandler.getTransformer()](http://docs.google.com/javax/xml/transform/sax/TransformerHandler.html#getTransformer()), and the methods invoked from that reference.

The [TemplatesHandler](http://docs.google.com/javax/xml/transform/sax/TemplatesHandler.html) interface allows the creation of [Templates](http://docs.google.com/javax/xml/transform/Templates.html) objects from SAX2 parse events. Once the [ContentHandler](http://docs.google.com/org/xml/sax/ContentHandler.html) events are complete, the Templates object may be obtained from [TemplatesHandler.getTemplates()](http://docs.google.com/javax/xml/transform/sax/TemplatesHandler.html#getTemplates()). Note that [TemplatesHandler.setSystemId(java.lang.String)](http://docs.google.com/javax/xml/transform/sax/TemplatesHandler.html#setSystemId(java.lang.String)) should normally be called in order to establish a base system ID from which relative URLs may be resolved.

The [SAXTransformerFactory.newXMLFilter(javax.xml.transform.Source)](http://docs.google.com/javax/xml/transform/sax/SAXTransformerFactory.html#newXMLFilter(javax.xml.transform.Source)) method allows the creation of a [XMLFilter](http://docs.google.com/org/xml/sax/XMLFilter.html), which encapsulates the SAX2 notion of a "pull" transformation. The following illustrates several transformations chained together. Each filter points to a parent [XMLReader](http://docs.google.com/org/xml/sax/XMLReader.html), and the final transformation is caused by invoking [XMLReader.parse(org.xml.sax.InputSource)](http://docs.google.com/org/xml/sax/XMLReader.html#parse(org.xml.sax.InputSource)) on the final reader in the chain.

| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV PACKAGE**](http://docs.google.com/javax/xml/transform/dom/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/xml/transform/stax/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/transform/sax/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

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

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