| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Schema.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/xml/validation/SchemaFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/validation/Schema.html)    [**NO FRAMES**](http://docs.google.com/Schema.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.xml.validation**

Class Schema

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.xml.validation.Schema**

public abstract class **Schema**extends [Object](http://docs.google.com/java/lang/Object.html)

Immutable in-memory representation of grammar.

This object represents a set of constraints that can be checked/ enforced against an XML document.

A [Schema](http://docs.google.com/javax/xml/validation/Schema.html) object is thread safe and applications are encouraged to share it across many parsers in many threads.

A [Schema](http://docs.google.com/javax/xml/validation/Schema.html) object is immutable in the sense that it shouldn't change the set of constraints once it is created. In other words, if an application validates the same document twice against the same [Schema](http://docs.google.com/javax/xml/validation/Schema.html), it must always produce the same result.

A [Schema](http://docs.google.com/javax/xml/validation/Schema.html) object is usually created from [SchemaFactory](http://docs.google.com/javax/xml/validation/SchemaFactory.html).

Two kinds of validators can be created from a [Schema](http://docs.google.com/javax/xml/validation/Schema.html) object. One is [Validator](http://docs.google.com/javax/xml/validation/Validator.html), which provides highly-level validation operations that cover typical use cases. The other is [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html), which works on top of SAX for better modularity.

This specification does not refine the [Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) method. In other words, if you parse the same schema twice, you may still get !schemaA.equals(schemaB).

**Since:** 1.5 **See Also:**[XML Schema Part 1: Structures](http://www.w3.org/TR/xmlschema-1/), [Extensible Markup Language (XML) 1.1](http://www.w3.org/TR/xml11/), [Extensible Markup Language (XML) 1.0 (Second Edition)](http://www.w3.org/TR/REC-xml)

| **Constructor Summary** | |
| --- | --- |
| protected | [**Schema**](http://docs.google.com/javax/xml/validation/Schema.html#Schema())()            Constructor for the derived class. |

| **Method Summary** | |
| --- | --- |
| abstract  [Validator](http://docs.google.com/javax/xml/validation/Validator.html) | [**newValidator**](http://docs.google.com/javax/xml/validation/Schema.html#newValidator())()            Creates a new [Validator](http://docs.google.com/javax/xml/validation/Validator.html) for this [Schema](http://docs.google.com/javax/xml/validation/Schema.html). |
| abstract  [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html) | [**newValidatorHandler**](http://docs.google.com/javax/xml/validation/Schema.html#newValidatorHandler())()            Creates a new [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html) for this [Schema](http://docs.google.com/javax/xml/validation/Schema.html). |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### Schema

protected **Schema**()

Constructor for the derived class.

The constructor does nothing.

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

### newValidator

public abstract [Validator](http://docs.google.com/javax/xml/validation/Validator.html) **newValidator**()

Creates a new [Validator](http://docs.google.com/javax/xml/validation/Validator.html) for this [Schema](http://docs.google.com/javax/xml/validation/Schema.html).

A validator enforces/checks the set of constraints this object represents.

Implementors should assure that the properties set on the [SchemaFactory](http://docs.google.com/javax/xml/validation/SchemaFactory.html) that created this [Schema](http://docs.google.com/javax/xml/validation/Schema.html) are also set on the [Validator](http://docs.google.com/javax/xml/validation/Validator.html) constructed.

**Returns:**Always return a non-null valid object.

### newValidatorHandler

public abstract [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html) **newValidatorHandler**()

Creates a new [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html) for this [Schema](http://docs.google.com/javax/xml/validation/Schema.html).

Implementors should assure that the properties set on the [SchemaFactory](http://docs.google.com/javax/xml/validation/SchemaFactory.html) that created this [Schema](http://docs.google.com/javax/xml/validation/Schema.html) are also set on the [ValidatorHandler](http://docs.google.com/javax/xml/validation/ValidatorHandler.html) constructed.

**Returns:**Always return a non-null valid object.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Schema.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/xml/validation/SchemaFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/validation/Schema.html)    [**NO FRAMES**](http://docs.google.com/Schema.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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