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XSD Elements Reference

[< Previous](#) [Next >](#)

XSD Elements

Element	Explanation
<u>all</u>	Specifies that the child elements can appear in any order. Each child element can occur 0 or 1 time
<u>annotation</u>	Specifies the top-level element for schema comments
<u>any</u>	Enables the author to extend the XML document with elements not specified by the schema
<u>anyAttribute</u>	Enables the author to extend the XML document with attributes not specified by the schema
<u>appInfo</u>	Specifies information to be used by the application (must go inside annotation)
<u>attribute</u>	Defines an attribute
<u>attributeGroup</u>	Defines an attribute group to be used in complex type definitions
<u>choice</u>	Allows only one of the elements contained in the <choice> declaration to be present within the containing element
<u>complexContent</u>	Defines extensions or restrictions on a complex type that contains mixed content or elements only
<u>complexType</u>	Defines a complex type element
<u>documentation</u>	Defines text comments in a schema (must go inside annotation)
<u>element</u>	Defines an element
<u>extension</u>	Extends an existing simpleType or complexType element
<u>field</u>	Specifies an XPath expression that specifies the value used to define an identity constraint
<u>group</u>	Defines a group of elements to be used in complex type definitions
<u>import</u>	Adds multiple schemas with different target namespace to a document
<u>include</u>	Adds multiple schemas with the same target namespace to a document
<u>key</u>	Specifies an attribute or element value as a key (unique, non-nullable, and always present) within the containing element in an instance document
<u>keyref</u>	Specifies that an attribute or element value correspond to those of the specified key or unique element
<u>list</u>	Defines a simple type element as a list of values
<u>notation</u>	Describes the format of non-XML data within an XML document
<u>redefine</u>	Redefines simple and complex types, groups, and attribute groups from an external schema
<u>restriction</u>	Defines restrictions on a simpleType, simpleContent, or a complexContent

<u>schema</u>	Defines the root element of a schema
<u>selector</u>	Specifies an XPath expression that selects a set of elements for an identity constraint
<u>sequence</u>	Specifies that the child elements must appear in a sequence. Each child element can occur from 0 to any number of times
<u>simpleContent</u>	Contains extensions or restrictions on a text-only complex type or on a simple type as content and contains no elements
<u>simpleType</u>	Defines a simple type and specifies the constraints and information about the values of attributes or text-only elements
<u>union</u>	Defines a simple type as a collection (union) of values from specified simple data types
<u>unique</u>	Defines that an element or an attribute value must be unique within the scope

XSD Restrictions/Facets for Datatypes

[Look at XSD Restrictions!](#)

Constraint	Description
<u>enumeration</u>	Defines a list of acceptable values
<u>fractionDigits</u>	Specifies the maximum number of decimal places allowed. Must be equal to or greater than zero
<u>length</u>	Specifies the exact number of characters or list items allowed. Must be equal to or greater than zero
<u>maxExclusive</u>	Specifies the upper bounds for numeric values (the value must be less than this value)
<u>maxInclusive</u>	Specifies the upper bounds for numeric values (the value must be less than or equal to this value)
<u>maxLength</u>	Specifies the maximum number of characters or list items allowed. Must be equal to or greater than zero
<u>minExclusive</u>	Specifies the lower bounds for numeric values (the value must be greater than this value)
<u>minInclusive</u>	Specifies the lower bounds for numeric values (the value must be greater than or equal to this value)
<u>minLength</u>	Specifies the minimum number of characters or list items allowed. Must be equal to or greater than zero
<u>pattern</u>	Defines the exact sequence of characters that are acceptable
<u>totalDigits</u>	Specifies the exact number of digits allowed. Must be greater than zero
<u>whiteSpace</u>	Specifies how white space (line feeds, tabs, spaces, and carriage returns) are handled