XSD Numeric Data Types

Decimal data types are used for numeric values.

Decimal Data Type

The decimal data type is used to specify a numeric value.

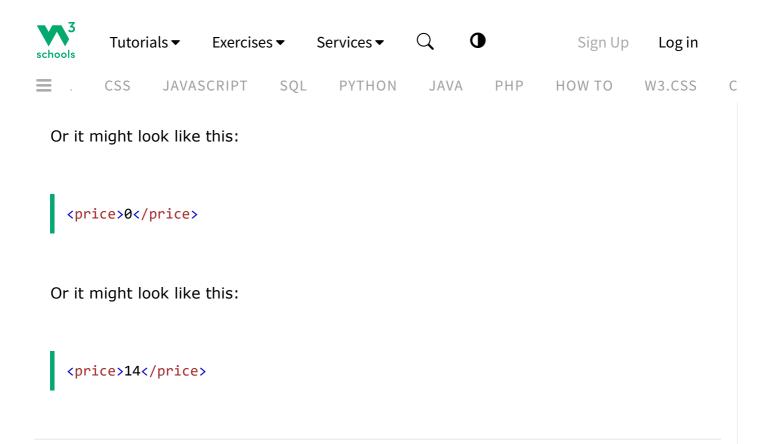The following is an example of a decimal declaration in a schema:

```
<xs:element name="price" type="xs:decimal"/>
```

An element in your document might look like this:

```
<price>999.50</price>
```

Or it might look like this:

```
<price>+999.5450</price>
```

Or it might look like this:

Or it might look like this:

```
<price>0</price>
```

Or it might look like this:

```
<price>14</price>
```

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Integer Data Type

The integer data type is used to specify a numeric value without a fractional component.

The following is an example of an integer declaration in a schema:

```
<xs:element name="price" type="xs:integer"/>
```

```
<price>999</price>
```

Or it might look like this:

```
<price>+999</price>
```

Or it might look like this:

```
<price>-999</price>
```

Or it might look like this:

```
<price>0</price>
```

Numeric Data Types

Note that all of the data types below derive from the Decimal data type (except for decimal itself)!

Name	Description
byte	A signed 8-bit integer
decimal	A decimal value
int	A signed 32-bit integer
integer	An integer value
long	A signed 64-bit integer

nonPositiveInteger	An integer containing only non-positive values (..,-2,-1,0)
positiveInteger	An integer containing only positive values (1,2,..)
short	A signed 16-bit integer
unsignedLong	An unsigned 64-bit integer
unsignedInt	An unsigned 32-bit integer
unsignedShort	An unsigned 16-bit integer
unsignedByte	An unsigned 8-bit integer

Restrictions on Numeric Data Types

Restrictions that can be used with Numeric data types:

- enumeration
- fractionDigits
- maxExclusive
- maxInclusive
- minExclusive
- minInclusive
- pattern
- totalDigits
- whiteSpace

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