| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/xml/datatype/Duration.html) | **Use** | [**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*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/xml/datatype//class-useDuration.html)    [**NO FRAMES**](http://docs.google.com/Duration.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**javax.xml.datatype.Duration**

| Packages that use [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | |
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| [**javax.xml.datatype**](#3znysh7) | XML/Java Type Mappings. |

| Uses of [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) | |
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| Methods in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) that return [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | |
| --- | --- |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**add**](http://docs.google.com/javax/xml/datatype/Duration.html#add(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) rhs)            Computes a new duration whose value is this+rhs. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**multiply**](http://docs.google.com/javax/xml/datatype/Duration.html#multiply(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) factor)            Computes a new duration whose value is factor times longer than the value of this duration. |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**multiply**](http://docs.google.com/javax/xml/datatype/Duration.html#multiply(int))(int factor)            Computes a new duration whose value is factor times longer than the value of this duration. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**negate**](http://docs.google.com/javax/xml/datatype/Duration.html#negate())()            Returns a new Duration object whose value is -this. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDuration**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDuration(boolean,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigDecimal))(boolean isPositive, [BigInteger](http://docs.google.com/java/math/BigInteger.html) years, [BigInteger](http://docs.google.com/java/math/BigInteger.html) months, [BigInteger](http://docs.google.com/java/math/BigInteger.html) days, [BigInteger](http://docs.google.com/java/math/BigInteger.html) hours, [BigInteger](http://docs.google.com/java/math/BigInteger.html) minutes, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) seconds)            Obtain a new instance of a Duration specifying the Duration as isPositive, years, months, days, hours, minutes, seconds. |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDuration**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDuration(boolean,%20int,%20int,%20int,%20int,%20int,%20int))(boolean isPositive, int years, int months, int days, int hours, int minutes, int seconds)            Obtain a new instance of a Duration specifying the Duration as isPositive, years, months, days, hours, minutes, seconds. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDuration**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDuration(long))(long durationInMilliSeconds)            Obtain a new instance of a Duration specifying the Duration as milliseconds. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDuration**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDuration(java.lang.String))([String](http://docs.google.com/java/lang/String.html) lexicalRepresentation)            Obtain a new instance of a Duration specifying the Duration as its string representation, "PnYnMnDTnHnMnS", as defined in XML Schema 1.0 section 3.2.6.1. |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationDayTime**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationDayTime(boolean,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger))(boolean isPositive, [BigInteger](http://docs.google.com/java/math/BigInteger.html) day, [BigInteger](http://docs.google.com/java/math/BigInteger.html) hour, [BigInteger](http://docs.google.com/java/math/BigInteger.html) minute, [BigInteger](http://docs.google.com/java/math/BigInteger.html) second)            Create a Duration of type xdt:dayTimeDuration using the specified day, hour, minute and second as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:dayTimeDuration](http://www.w3.org/TR/xpath-datamodel#dt-dayTimeDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationDayTime**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationDayTime(boolean,%20int,%20int,%20int,%20int))(boolean isPositive, int day, int hour, int minute, int second)            Create a Duration of type xdt:dayTimeDuration using the specified day, hour, minute and second as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:dayTimeDuration](http://www.w3.org/TR/xpath-datamodel#dt-dayTimeDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationDayTime**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationDayTime(long))(long durationInMilliseconds)            Create a Duration of type xdt:dayTimeDuration using the specified milliseconds as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:dayTimeDuration](http://www.w3.org/TR/xpath-datamodel#dt-dayTimeDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationDayTime**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationDayTime(java.lang.String))([String](http://docs.google.com/java/lang/String.html) lexicalRepresentation)            Create a Duration of type xdt:dayTimeDuration by parsing its String representation, "*PnDTnHnMnS*",  [XQuery 1.0 and XPath 2.0 Data Model, xdt:dayTimeDuration](http://www.w3.org/TR/xpath-datamodel#dt-dayTimeDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationYearMonth**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationYearMonth(boolean,%20java.math.BigInteger,%20java.math.BigInteger))(boolean isPositive, [BigInteger](http://docs.google.com/java/math/BigInteger.html) year, [BigInteger](http://docs.google.com/java/math/BigInteger.html) month)            Create a Duration of type xdt:yearMonthDuration using the specified year and month as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:yearMonthDuration](http://www.w3.org/TR/xpath-datamodel#dt-yearMonthyDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationYearMonth**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationYearMonth(boolean,%20int,%20int))(boolean isPositive, int year, int month)            Create a Duration of type xdt:yearMonthDuration using the specified year and month as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:yearMonthDuration](http://www.w3.org/TR/xpath-datamodel#dt-yearMonthyDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationYearMonth**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationYearMonth(long))(long durationInMilliseconds)            Create a Duration of type xdt:yearMonthDuration using the specified milliseconds as defined in  [XQuery 1.0 and XPath 2.0 Data Model, xdt:yearMonthDuration](http://www.w3.org/TR/xpath-datamodel#dt-yearMonthDuration). |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDurationYearMonth**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDurationYearMonth(java.lang.String))([String](http://docs.google.com/java/lang/String.html) lexicalRepresentation)            Create a Duration of type xdt:yearMonthDuration by parsing its String representation, "*PnYnM*",  [XQuery 1.0 and XPath 2.0 Data Model, xdt:yearMonthDuration](http://www.w3.org/TR/xpath-datamodel#dt-yearMonthDuration). |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**normalizeWith**](http://docs.google.com/javax/xml/datatype/Duration.html#normalizeWith(java.util.Calendar))([Calendar](http://docs.google.com/java/util/Calendar.html) startTimeInstant)            Converts the years and months fields into the days field by using a specific time instant as the reference point. |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**subtract**](http://docs.google.com/javax/xml/datatype/Duration.html#subtract(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) rhs)            Computes a new duration whose value is this-rhs. |

| Methods in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) with parameters of type [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | |
| --- | --- |
| abstract  void | **XMLGregorianCalendar.**[**add**](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html#add(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) duration)            Add duration to this instance. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**add**](http://docs.google.com/javax/xml/datatype/Duration.html#add(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) rhs)            Computes a new duration whose value is this+rhs. |
| abstract  int | **Duration.**[**compare**](http://docs.google.com/javax/xml/datatype/Duration.html#compare(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) duration)            Partial order relation comparison with this Duration instance. |
| boolean | **Duration.**[**isLongerThan**](http://docs.google.com/javax/xml/datatype/Duration.html#isLongerThan(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) duration)            Checks if this duration object is strictly longer than another Duration object. |
| boolean | **Duration.**[**isShorterThan**](http://docs.google.com/javax/xml/datatype/Duration.html#isShorterThan(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) duration)            Checks if this duration object is strictly shorter than another Duration object. |
| [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**subtract**](http://docs.google.com/javax/xml/datatype/Duration.html#subtract(javax.xml.datatype.Duration))([Duration](http://docs.google.com/javax/xml/datatype/Duration.html) rhs)            Computes a new duration whose value is this-rhs. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/xml/datatype/Duration.html) | **Use** | [**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*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/xml/datatype//class-useDuration.html)    [**NO FRAMES**](http://docs.google.com/Duration.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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