| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Time.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**](http://docs.google.com/java/sql/Struct.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/Timestamp.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/Time.html)    [**NO FRAMES**](http://docs.google.com/Time.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

## **java.sql**

Class Time

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.Date](http://docs.google.com/java/util/Date.html)  
 **java.sql.Time**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Comparable](http://docs.google.com/java/lang/Comparable.html)<[Date](http://docs.google.com/java/util/Date.html)>

public class **Time**extends [Date](http://docs.google.com/java/util/Date.html)

A thin wrapper around the java.util.Date class that allows the JDBC API to identify this as an SQL TIME value. The Time class adds formatting and parsing operations to support the JDBC escape syntax for time values.

The date components should be set to the "zero epoch" value of January 1, 1970 and should not be accessed.

**See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.sql.Time)

| **Constructor Summary** | |
| --- | --- |
| [**Time**](http://docs.google.com/java/sql/Time.html#Time(int,%20int,%20int))(int hour, int minute, int second)  **Deprecated.** *Use the constructor that takes a milliseconds value in place of this constructor* |
| [**Time**](http://docs.google.com/java/sql/Time.html#Time(long))(long time)            Constructs a Time object using a milliseconds time value. |

| **Method Summary** | |
| --- | --- |
| int | [**getDate**](http://docs.google.com/java/sql/Time.html#getDate())()  **Deprecated.** |
| int | [**getDay**](http://docs.google.com/java/sql/Time.html#getDay())()  **Deprecated.** |
| int | [**getMonth**](http://docs.google.com/java/sql/Time.html#getMonth())()  **Deprecated.** |
| int | [**getYear**](http://docs.google.com/java/sql/Time.html#getYear())()  **Deprecated.** |
| void | [**setDate**](http://docs.google.com/java/sql/Time.html#setDate(int))(int i)  **Deprecated.** |
| void | [**setMonth**](http://docs.google.com/java/sql/Time.html#setMonth(int))(int i)  **Deprecated.** |
| void | [**setTime**](http://docs.google.com/java/sql/Time.html#setTime(long))(long time)            Sets a Time object using a milliseconds time value. |
| void | [**setYear**](http://docs.google.com/java/sql/Time.html#setYear(int))(int i)  **Deprecated.** |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/sql/Time.html#toString())()            Formats a time in JDBC time escape format. |
| static [Time](http://docs.google.com/java/sql/Time.html) | [**valueOf**](http://docs.google.com/java/sql/Time.html#valueOf(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Converts a string in JDBC time escape format to a Time value. |

| **Methods inherited from class java.util.**[**Date**](http://docs.google.com/java/util/Date.html) |
| --- |
| [after](http://docs.google.com/java/util/Date.html#after(java.util.Date)), [before](http://docs.google.com/java/util/Date.html#before(java.util.Date)), [clone](http://docs.google.com/java/util/Date.html#clone()), [compareTo](http://docs.google.com/java/util/Date.html#compareTo(java.util.Date)), [equals](http://docs.google.com/java/util/Date.html#equals(java.lang.Object)), [getHours](http://docs.google.com/java/util/Date.html#getHours()), [getMinutes](http://docs.google.com/java/util/Date.html#getMinutes()), [getSeconds](http://docs.google.com/java/util/Date.html#getSeconds()), [getTime](http://docs.google.com/java/util/Date.html#getTime()), [getTimezoneOffset](http://docs.google.com/java/util/Date.html#getTimezoneOffset()), [hashCode](http://docs.google.com/java/util/Date.html#hashCode()), [parse](http://docs.google.com/java/util/Date.html#parse(java.lang.String)), [setHours](http://docs.google.com/java/util/Date.html#setHours(int)), [setMinutes](http://docs.google.com/java/util/Date.html#setMinutes(int)), [setSeconds](http://docs.google.com/java/util/Date.html#setSeconds(int)), [toGMTString](http://docs.google.com/java/util/Date.html#toGMTString()), [toLocaleString](http://docs.google.com/java/util/Date.html#toLocaleString()), [UTC](http://docs.google.com/java/util/Date.html#UTC(int,%20int,%20int,%20int,%20int,%20int)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [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** |
| --- |

### Time

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public **Time**(int hour,  
 int minute,  
 int second)

**Deprecated.** *Use the constructor that takes a milliseconds value in place of this constructor*

Constructs a Time object initialized with the given values for the hour, minute, and second. The driver sets the date components to January 1, 1970. Any method that attempts to access the date components of a Time object will throw a java.lang.IllegalArgumentException.

The result is undefined if a given argument is out of bounds.

**Parameters:**hour - 0 to 23minute - 0 to 59second - 0 to 59

### Time

public **Time**(long time)

Constructs a Time object using a milliseconds time value.

**Parameters:**time - milliseconds since January 1, 1970, 00:00:00 GMT; a negative number is milliseconds before January 1, 1970, 00:00:00 GMT

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

### setTime

public void **setTime**(long time)

Sets a Time object using a milliseconds time value.

**Overrides:**[setTime](http://docs.google.com/java/util/Date.html#setTime(long)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**time - milliseconds since January 1, 1970, 00:00:00 GMT; a negative number is milliseconds before January 1, 1970, 00:00:00 GMT

### valueOf

public static [Time](http://docs.google.com/java/sql/Time.html) **valueOf**([String](http://docs.google.com/java/lang/String.html) s)

Converts a string in JDBC time escape format to a Time value.

**Parameters:**s - time in format "hh:mm:ss" **Returns:**a corresponding Time object

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Formats a time in JDBC time escape format.

**Overrides:**[toString](http://docs.google.com/java/util/Date.html#toString()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**a String in hh:mm:ss format**See Also:**[Date.toLocaleString()](http://docs.google.com/java/util/Date.html#toLocaleString()), [Date.toGMTString()](http://docs.google.com/java/util/Date.html#toGMTString())

### getYear

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **getYear**()

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a year component.

**Overrides:**[getYear](http://docs.google.com/java/util/Date.html#getYear()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the year represented by this date, minus 1900. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setYear(int)](http://docs.google.com/java/sql/Time.html#setYear(int))

### getMonth

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **getMonth**()

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a month component.

**Overrides:**[getMonth](http://docs.google.com/java/util/Date.html#getMonth()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the month represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setMonth(int)](http://docs.google.com/java/sql/Time.html#setMonth(int))

### getDay

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **getDay**()

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a day component.

**Overrides:**[getDay](http://docs.google.com/java/util/Date.html#getDay()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the day of the week represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[Calendar](http://docs.google.com/java/util/Calendar.html)

### getDate

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **getDate**()

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a date component.

**Overrides:**[getDate](http://docs.google.com/java/util/Date.html#getDate()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the day of the month represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setDate(int)](http://docs.google.com/java/sql/Time.html#setDate(int))

### setYear

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public void **setYear**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a year component.

**Overrides:**[setYear](http://docs.google.com/java/util/Date.html#setYear(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the year value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getYear()](http://docs.google.com/java/sql/Time.html#getYear())

### setMonth

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public void **setMonth**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a month component.

**Overrides:**[setMonth](http://docs.google.com/java/util/Date.html#setMonth(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the month value between 0-11. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getMonth()](http://docs.google.com/java/sql/Time.html#getMonth())

### setDate

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public void **setDate**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL TIME values do not have a date component.

**Overrides:**[setDate](http://docs.google.com/java/util/Date.html#setDate(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the day of the month value between 1-31. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getDate()](http://docs.google.com/java/sql/Time.html#getDate())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Time.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**](http://docs.google.com/java/sql/Struct.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/Timestamp.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/Time.html)    [**NO FRAMES**](http://docs.google.com/Time.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

[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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