| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LineMetrics.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/awt/font/LineBreakMeasurer.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/font/MultipleMaster.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/font/LineMetrics.html)    [**NO FRAMES**](http://docs.google.com/LineMetrics.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.awt.font**

Class LineMetrics

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.awt.font.LineMetrics**

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

The LineMetrics class allows access to the metrics needed to layout characters along a line and to layout of a set of lines. A LineMetrics object encapsulates the measurement information associated with a run of text.

Fonts can have different metrics for different ranges of characters. The getLineMetrics methods of [Font](http://docs.google.com/java/awt/Font.html) take some text as an argument and return a LineMetrics object describing the metrics of the initial number of characters in that text, as returned by [getNumChars()](http://docs.google.com/java/awt/font/LineMetrics.html#getNumChars()).

| **Constructor Summary** | |
| --- | --- |
| [**LineMetrics**](http://docs.google.com/java/awt/font/LineMetrics.html#LineMetrics())() |

| **Method Summary** | |
| --- | --- |
| abstract  float | [**getAscent**](http://docs.google.com/java/awt/font/LineMetrics.html#getAscent())()            Returns the ascent of the text. |
| abstract  int | [**getBaselineIndex**](http://docs.google.com/java/awt/font/LineMetrics.html#getBaselineIndex())()            Returns the baseline index of the text. |
| abstract  float[] | [**getBaselineOffsets**](http://docs.google.com/java/awt/font/LineMetrics.html#getBaselineOffsets())()            Returns the baseline offsets of the text, relative to the baseline of the text. |
| abstract  float | [**getDescent**](http://docs.google.com/java/awt/font/LineMetrics.html#getDescent())()            Returns the descent of the text. |
| abstract  float | [**getHeight**](http://docs.google.com/java/awt/font/LineMetrics.html#getHeight())()            Returns the height of the text. |
| abstract  float | [**getLeading**](http://docs.google.com/java/awt/font/LineMetrics.html#getLeading())()            Returns the leading of the text. |
| abstract  int | [**getNumChars**](http://docs.google.com/java/awt/font/LineMetrics.html#getNumChars())()            Returns the number of characters (char values) in the text whose metrics are encapsulated by this LineMetrics object. |
| abstract  float | [**getStrikethroughOffset**](http://docs.google.com/java/awt/font/LineMetrics.html#getStrikethroughOffset())()            Returns the position of the strike-through line relative to the baseline. |
| abstract  float | [**getStrikethroughThickness**](http://docs.google.com/java/awt/font/LineMetrics.html#getStrikethroughThickness())()            Returns the thickness of the strike-through line. |
| abstract  float | [**getUnderlineOffset**](http://docs.google.com/java/awt/font/LineMetrics.html#getUnderlineOffset())()            Returns the position of the underline relative to the baseline. |
| abstract  float | [**getUnderlineThickness**](http://docs.google.com/java/awt/font/LineMetrics.html#getUnderlineThickness())()            Returns the thickness of the underline. |

| **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** |
| --- |

### LineMetrics

public **LineMetrics**()

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

### getNumChars

public abstract int **getNumChars**()

Returns the number of characters (char values) in the text whose metrics are encapsulated by this LineMetrics object.

**Returns:**the number of characters (char values) in the text with which this LineMetrics was created.

### getAscent

public abstract float **getAscent**()

Returns the ascent of the text. The ascent is the distance from the baseline to the ascender line. The ascent usually represents the the height of the capital letters of the text. Some characters can extend above the ascender line.

**Returns:**the ascent of the text.

### getDescent

public abstract float **getDescent**()

Returns the descent of the text. The descent is the distance from the baseline to the descender line. The descent usually represents the distance to the bottom of lower case letters like 'p'. Some characters can extend below the descender line.

**Returns:**the descent of the text.

### getLeading

public abstract float **getLeading**()

Returns the leading of the text. The leading is the recommended distance from the bottom of the descender line to the top of the next line.

**Returns:**the leading of the text.

### getHeight

public abstract float **getHeight**()

Returns the height of the text. The height is equal to the sum of the ascent, the descent and the leading.

**Returns:**the height of the text.

### getBaselineIndex

public abstract int **getBaselineIndex**()

Returns the baseline index of the text. The index is one of [ROMAN\_BASELINE](http://docs.google.com/java/awt/Font.html#ROMAN_BASELINE), [CENTER\_BASELINE](http://docs.google.com/java/awt/Font.html#CENTER_BASELINE), [HANGING\_BASELINE](http://docs.google.com/java/awt/Font.html#HANGING_BASELINE).

**Returns:**the baseline of the text.

### getBaselineOffsets

public abstract float[] **getBaselineOffsets**()

Returns the baseline offsets of the text, relative to the baseline of the text. The offsets are indexed by baseline index. For example, if the baseline index is CENTER\_BASELINE then offsets[HANGING\_BASELINE] is usually negative, offsets[CENTER\_BASELINE] is zero, and offsets[ROMAN\_BASELINE] is usually positive.

**Returns:**the baseline offsets of the text.

### getStrikethroughOffset

public abstract float **getStrikethroughOffset**()

Returns the position of the strike-through line relative to the baseline.

**Returns:**the position of the strike-through line.

### getStrikethroughThickness

public abstract float **getStrikethroughThickness**()

Returns the thickness of the strike-through line.

**Returns:**the thickness of the strike-through line.

### getUnderlineOffset

public abstract float **getUnderlineOffset**()

Returns the position of the underline relative to the baseline.

**Returns:**the position of the underline.

### getUnderlineThickness

public abstract float **getUnderlineThickness**()

Returns the thickness of the underline.

**Returns:**the thickness of the underline.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LineMetrics.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*** |
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[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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