| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JPEGQTable.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/javax/imageio/plugins/jpeg/JPEGImageWriteParam.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/plugins/jpeg/JPEGQTable.html)    [**NO FRAMES**](http://docs.google.com/JPEGQTable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

## **javax.imageio.plugins.jpeg**

Class JPEGQTable

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.imageio.plugins.jpeg.JPEGQTable**

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

A class encapsulating a single JPEG quantization table. The elements appear in natural order (as opposed to zig-zag order). Static variables are provided for the "standard" tables taken from Annex K of the JPEG spec, as well as the default tables conventionally used for visually lossless encoding.

For more information about the operation of the built-in JPEG plug-ins, see the [JPEG metadata format specification and usage notes](http://docs.google.com/metadata/doc-files/jpeg_metadata.html).

| **Field Summary** | |
| --- | --- |
| static [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) | [**K1Div2Luminance**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K1Div2Luminance)            The sample luminance quantization table given in the JPEG specification, table K.1, with all elements divided by 2. |
| static [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) | [**K1Luminance**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K1Luminance)            The sample luminance quantization table given in the JPEG specification, table K.1. |
| static [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) | [**K2Chrominance**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K2Chrominance)            The sample chrominance quantization table given in the JPEG specification, table K.2. |
| static [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) | [**K2Div2Chrominance**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K2Div2Chrominance)            The sample chrominance quantization table given in the JPEG specification, table K.2, with all elements divided by 2. |

| **Constructor Summary** | |
| --- | --- |
| [**JPEGQTable**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#JPEGQTable(int%5B%5D))(int[] table)            Constructs a quantization table from the argument, which must contain 64 elements in natural order (not zig-zag order). |

| **Method Summary** | |
| --- | --- |
| [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) | [**getScaledInstance**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#getScaledInstance(float,%20boolean))(float scaleFactor, boolean forceBaseline)            Returns a new quantization table where the values are multiplied by scaleFactor and then clamped to the range 1..32767 (or to 1..255 if forceBaseline is true). |
| int[] | [**getTable**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#getTable())()            Returns a copy of the current quantization table as an array of ints in natural (not zig-zag) order. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#toString())()            Returns a string representation of the object. |

| **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()), [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)) |

| **Field Detail** |
| --- |

### K1Luminance

public static final [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) **K1Luminance**

The sample luminance quantization table given in the JPEG specification, table K.1. According to the specification, these values produce "good" quality output.

**See Also:**[K1Div2Luminance](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K1Div2Luminance)

### K1Div2Luminance

public static final [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) **K1Div2Luminance**

The sample luminance quantization table given in the JPEG specification, table K.1, with all elements divided by 2. According to the specification, these values produce "very good" quality output. This is the table usually used for "visually lossless" encoding, and is the default luminance table used if the default tables and quality settings are used.

**See Also:**[K1Luminance](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K1Luminance)

### K2Chrominance

public static final [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) **K2Chrominance**

The sample chrominance quantization table given in the JPEG specification, table K.2. According to the specification, these values produce "good" quality output.

**See Also:**[K2Div2Chrominance](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K2Div2Chrominance)

### K2Div2Chrominance

public static final [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) **K2Div2Chrominance**

The sample chrominance quantization table given in the JPEG specification, table K.2, with all elements divided by 2. According to the specification, these values produce "very good" quality output. This is the table usually used for "visually lossless" encoding, and is the default chrominance table used if the default tables and quality settings are used.

**See Also:**[K2Chrominance](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html#K2Chrominance)

| **Constructor Detail** |
| --- |

### JPEGQTable

public **JPEGQTable**(int[] table)

Constructs a quantization table from the argument, which must contain 64 elements in natural order (not zig-zag order). A copy is made of the the input array.

**Parameters:**table - the quantization table, as an int array. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if table is null or table.length is not equal to 64.

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

### getTable

public int[] **getTable**()

Returns a copy of the current quantization table as an array of ints in natural (not zig-zag) order.

**Returns:**A copy of the current quantization table.

### getScaledInstance

public [JPEGQTable](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGQTable.html) **getScaledInstance**(float scaleFactor,  
 boolean forceBaseline)

Returns a new quantization table where the values are multiplied by scaleFactor and then clamped to the range 1..32767 (or to 1..255 if forceBaseline is true).

Values of scaleFactorless than 1 tend to improve the quality level of the table, and values greater than 1.0 degrade the quality level of the table.

**Parameters:**scaleFactor - the multiplicative factor for the table.forceBaseline - if true, the values will be clamped to the range 1..255. **Returns:**a new quantization table that is a linear multiple of the current table.

### toString

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

**Description copied from class:** [**Object**](http://docs.google.com/java/lang/Object.html#toString()) Returns a string representation of the object. In general, the toString method returns a string that "textually represents" this object. The result should be a concise but informative representation that is easy for a person to read. It is recommended that all subclasses override this method.

The toString method for class Object returns a string consisting of the name of the class of which the object is an instance, the at-sign character `@', and the unsigned hexadecimal representation of the hash code of the object. In other words, this method returns a string equal to the value of:

getClass().getName() + '@' + Integer.toHexString(hashCode())

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of the object.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JPEGQTable.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/javax/imageio/plugins/jpeg/JPEGImageWriteParam.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/plugins/jpeg/JPEGQTable.html)    [**NO FRAMES**](http://docs.google.com/JPEGQTable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).