| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GraphicsConfigTemplate.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/Graphics2D.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/GraphicsConfiguration.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/GraphicsConfigTemplate.html)    [**NO FRAMES**](http://docs.google.com/GraphicsConfigTemplate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **java.awt**

Class GraphicsConfigTemplate

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

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

The GraphicsConfigTemplate class is used to obtain a valid [GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html). A user instantiates one of these objects and then sets all non-default attributes as desired. The [GraphicsDevice.getBestConfiguration(java.awt.GraphicsConfigTemplate)](http://docs.google.com/java/awt/GraphicsDevice.html#getBestConfiguration(java.awt.GraphicsConfigTemplate)) method found in the [GraphicsDevice](http://docs.google.com/java/awt/GraphicsDevice.html) class is then called with this GraphicsConfigTemplate. A valid GraphicsConfiguration is returned that meets or exceeds what was requested in the GraphicsConfigTemplate.

**Since:** 1.2 **See Also:**[GraphicsDevice](http://docs.google.com/java/awt/GraphicsDevice.html), [GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.GraphicsConfigTemplate)

| **Field Summary** | |
| --- | --- |
| static int | [**PREFERRED**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#PREFERRED)            Value used for "Enum" (Integer) type. |
| static int | [**REQUIRED**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#REQUIRED)            Value used for "Enum" (Integer) type. |
| static int | [**UNNECESSARY**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#UNNECESSARY)            Value used for "Enum" (Integer) type. |

| **Constructor Summary** | |
| --- | --- |
| [**GraphicsConfigTemplate**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#GraphicsConfigTemplate())()            This class is an abstract class so only subclasses can be instantiated. |

| **Method Summary** | |
| --- | --- |
| abstract  [GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html) | [**getBestConfiguration**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#getBestConfiguration(java.awt.GraphicsConfiguration%5B%5D))([GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html)[] gc)            Returns the "best" configuration possible that passes the criteria defined in the GraphicsConfigTemplate. |
| abstract  boolean | [**isGraphicsConfigSupported**](http://docs.google.com/java/awt/GraphicsConfigTemplate.html#isGraphicsConfigSupported(java.awt.GraphicsConfiguration))([GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html) gc)            Returns a boolean indicating whether or not the specified GraphicsConfiguration can be used to create a drawing surface that supports the indicated features. |

| **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)) |

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

### REQUIRED

public static final int **REQUIRED**

Value used for "Enum" (Integer) type. States that this feature is required for the GraphicsConfiguration object. If this feature is not available, do not select the GraphicsConfiguration object.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.GraphicsConfigTemplate.REQUIRED)

### PREFERRED

public static final int **PREFERRED**

Value used for "Enum" (Integer) type. States that this feature is desired for the GraphicsConfiguration object. A selection with this feature is preferred over a selection that does not include this feature, although both selections can be considered valid matches.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.GraphicsConfigTemplate.PREFERRED)

### UNNECESSARY

public static final int **UNNECESSARY**

Value used for "Enum" (Integer) type. States that this feature is not necessary for the selection of the GraphicsConfiguration object. A selection without this feature is preferred over a selection that includes this feature since it is not used.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.GraphicsConfigTemplate.UNNECESSARY)

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

### GraphicsConfigTemplate

public **GraphicsConfigTemplate**()

This class is an abstract class so only subclasses can be instantiated.

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

### getBestConfiguration

public abstract [GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html) **getBestConfiguration**([GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html)[] gc)

Returns the "best" configuration possible that passes the criteria defined in the GraphicsConfigTemplate.

**Parameters:**gc - the array of GraphicsConfiguration objects to choose from. **Returns:**a GraphicsConfiguration object that is the best configuration possible.**See Also:**[GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html)

### isGraphicsConfigSupported

public abstract boolean **isGraphicsConfigSupported**([GraphicsConfiguration](http://docs.google.com/java/awt/GraphicsConfiguration.html) gc)

Returns a boolean indicating whether or not the specified GraphicsConfiguration can be used to create a drawing surface that supports the indicated features.

**Parameters:**gc - the GraphicsConfiguration object to test **Returns:**true if this GraphicsConfiguration object can be used to create surfaces that support the indicated features; false if the GraphicsConfiguration can not be used to create a drawing surface usable by this Java(tm) API.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GraphicsConfigTemplate.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/Graphics2D.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/GraphicsConfiguration.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/GraphicsConfigTemplate.html)    [**NO FRAMES**](http://docs.google.com/GraphicsConfigTemplate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

[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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