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package java.applet

Interface Index

- AppletContext
- AppletStub
- AudioClip

Class Index

- Applet

Class java.applet.Applet

```
java.lang.Object
   |
   +----java.awt.Component
           |
           +----java.awt.Container
                   |
                   +----java.awt.Panel
                           |
                           +----java.applet.Applet
```

---

public class **Applet**
extends Panel

Base applet class.

Constructor Index

- **Applet**()

Method Index

- **destroy**()
  Cleans up whatever resources are being held.
- **getAppletContext**()
  Gets a handle to the applet context.
- **getAppletInfo**()
  Return a string containing information about the author, version and copyright of the applet.
- **getAudioClip**(URL)
  Gets an audio clip.
- **getAudioClip**(URL, String)
  Gets an audio clip.
- **getCodeBase**()
  Gets the base URL.
- **getDocumentBase**()
  Gets the document URL.
- **getImage**(URL)
  Gets an image given a URL.

- **getImage**(URL, String)
  Gets an image relative to a URL.
- **getParameter**(String)
  Gets a parameter of the applet.
- **getParameterInfo**()
  Returns an array of strings describing the parameters that are understoond by this applet.
- **init**()
  Initializes the applet.
- **isActive**()
  Returns true if the applet is active.
- **play**(URL)
  Play an audio clip.
- **play**(URL, String)
  Play an audio clip.
- **resize**(int, int)
  Request for the applet to be resized.
- **resize**(Dimension)
  Request for the applet to be resized.
- **setStub**(AppletStub)
  Set the applet stub.
- **showStatus**(String)
  Show a status message in the Applet's context.
- **start**()
  Called to start the applet.
- **stop**()
  Called to stop the applet.

Constructors

Applet

```
public Applet()
```

Methods

setStub

```
public final void setStub(AppletStub stub)
```

Set the applet stub. This is done by automatically by the system.

isActive

```
public boolean isActive()
```

Returns true if the applet is active. An applet is marked active just before the start method is

called.
See Also:
start

getDocumentBase

```
public URL getDocumentBase()
```

Gets the document URL. This is the URL of the document in which the applet is embedded.
See Also:
getCodeBase

getCodeBase

```
public URL getCodeBase()
```

Gets the base URL. This is the URL of the applet itself.
See Also:
getDocumentBase

getParameter

```
public String getParameter(String name)
```

Gets a parameter of the applet.

getAppletContext

```
public AppletContext getAppletContext()
```

Gets a handle to the applet context. The applet context lets an applet control the applet's environment which is usually the browser or the applet viewer.

resize

```
public void resize(int width,
                   int height)
```

Request for the applet to be resized.
Overrides:
resize in class Component

resize

```
public void resize(Dimension d)
```

Request for the applet to be resized.
Overrides:
resize in class Component

showStatus

```
public void showStatus(String msg)
```

Show a status message in the Applet's context.

getImage

```
public Image getImage(URL url)
```

Gets an image given a URL. Note that this method always returns an image object immediatly, even if the image does not exist. The actual image datais loaded when it is first needed.

getImage

```
public Image getImage(URL url,
                      String name)
```

Gets an image relative to a URL. This methods returns immediatly, even if the image does not exist. The actual image data is loaded when it is first needed.

See Also:

getImage

getAudioClip

```
public AudioClip getAudioClip(URL url)
```

Gets an audio clip.

getAudioClip

```
public AudioClip getAudioClip(URL url,
                              String name)
```

Gets an audio clip.

See Also:

getAudioClip

getAppletInfo

```
public String getAppletInfo()
```

Return a string containing information about the author, version and copyright of the applet.

getParameterInfo

```
public String[][] getParameterInfo()
```

Returns an array of strings describing the parameters that are understoond by this applet. The

array consists of sets of 3 strings name/type/description. For example:

```
String pinfo[][] = {
  {"fps",    "1-10",    "frames per second"},
  {"repeat", "boolean", "repeat image loop"},
  {"imgs",   "url",     "directory in which the images live"}
};
```

play

```
public void play(URL url)
```

Play an audio clip. Nothing happens if the audio clip could not be found.

play

```
public void play(URL url,
                 String name)
```

Play an audio clip. Nothing happens if the audio clip could not be found.

init

```
public void init()
```

Initializes the applet. You never need to call this directly, it is called automatically by the system once the applet is created.

See Also:

start, stop, destroy

start

```
public void start()
```

Called to start the applet. You never need to call this method directly, it is called when the applet's document is visited.

See Also:

init, stop, destroy

stop

```
public void stop()
```

Called to stop the applet. It is called when the applet's document is no longer on the screen. It is guaranteed to be called before destroy() is called. You never need to call this method directly.

See Also:

init, start, destroy

destroy

```
public void destroy()
```

Cleans up whatever resources are being held. If the applet is active it is first stopped.

See Also:

init, start, stop

Interface java.applet.AppletContext

public interface **AppletContext**
extends Object

Applet context. This interface corresponds to an Applet's environment. It can be used by an applet to obtain information from the applet's environment, which is usually the browser or the applet viewer.

Method Index

- **getApplet**(String)
  Gets an applet by name.
- **getApplets**()
  Enumerate the applets in this context.
- **getAudioClip**(URL)
  Gets an audio clip.
- **getImage**(URL)
  Gets an image.
- **showDocument**(URL)
  Show a new document.
- **showDocument**(URL, String)
  Show a new document in a target window or frame.
- **showStatus**(String)
  Show a status string.

Methods

getAudioClip

```
public abstract AudioClip getAudioClip(URL url)
```

Gets an audio clip.

getImage

```
public abstract Image getImage(URL url)
```

Gets an image. This usually involves downloading it over the net. However, the environment may decide to cache images. This methods takes an array of URLs, each of which will be tried until the images is found.

getApplet

```
public abstract Applet getApplet(String name)
```

Gets an applet by name.
Returns:
null if the applet does not exist.

getApplets

```
public abstract Enumeration getApplets()
```

Enumerate the applets in this context. Only applets that are accessible will be returned. This list always includes the applet itself.

showDocument

```
public abstract void showDocument(URL url)
```

Show a new document. This may be ignored by the applet context.

showDocument

```
public abstract void showDocument(URL url,
                                  String target)
```

Show a new document in a target window or frame. This may be ignored by the applet context. This method accepts the target strings: _self show in current frame _parent show in parent frame _top show in top−most frame _blank show in new unnamed top−level window show in new top−level window named

showStatus

```
public abstract void showStatus(String status)
```

Show a status string.

Interface java.applet.AppletStub

public interface **AppletStub**
extends Object

Applet stub. This interface is used to implement an applet viewer. It is not normally used by applet programmers.

Method Index

- **appletResize**(int, int)
  Is called when the applet wants to be resized.
- **getAppletContext**()
  Gets a handler to the applet's context.
- **getCodeBase**()
  Gets the base URL.
- **getDocumentBase**()
  Gets the document URL.
- **getParameter**(String)
  Gets a paramater of the applet.
- **isActive**()
  Returns true if the applet is active.

Methods

isActive

```
public abstract boolean isActive()
```

Returns true if the applet is active.

getDocumentBase

```
public abstract URL getDocumentBase()
```

Gets the document URL.

getCodeBase

```
public abstract URL getCodeBase()
```

Gets the base URL.

getParameter

```
public abstract String getParameter(String name)
```

Gets a paramater of the applet.

getAppletContext

```
public abstract AppletContext getAppletContext()
```

Gets a handler to the applet's context.

appletResize

```
public abstract void appletResize(int width,
                                  int height)
```

Is called when the applet wants to be resized.

Interface java.applet.AudioClip

public interface **AudioClip**
extends Object

AudioClip interface. A very high level abstraction of audio.

Method Index

- **loop**()
  Start playing the clip in a loop.
- **play**()
  Start playing the clip.
- **stop**()
  Stop playing the clip.

Methods

play

```
public abstract void play()
```

Start playing the clip. Each time this is called the clip is restarted from the beginning.

loop

```
public abstract void loop()
```

Start playing the clip in a loop.

stop

```
public abstract void stop()
```

Stop playing the clip.