

# JAVA.LANG.CLASSLOADER CLASS

[http://www.tutorialspoint.com/java/lang/java\\_lang\\_classloader.htm](http://www.tutorialspoint.com/java/lang/java_lang_classloader.htm)

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## Introduction

The **java.lang.ClassLoader** class is an object that is responsible for loading classes. This class is an abstract class. It may be used by security managers to indicate security domains.

## Class declaration

Following is the declaration for **java.lang.ClassLoader** class:

```
public abstract class ClassLoader
    extends Object
```

## Class constructors

| S.N. | Constructor & Description                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>protected ClassLoader</b><br><br>This creates a new class loader using the ClassLoader returned by the method <code>getSystemClassLoader</code> as the parent class loader. |
| 2    | <b>protected ClassLoaderClassLoaderparent</b><br><br>This creates a new class loader using the specified parent class loader for delegation.                                   |

## Class methods

| S.N. | Method & Description                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <u><a href="#">void clearAssertionStatus</a></u><br><br>This method sets the default assertion status for this class loader to false and discards any package defaults or class assertion status settings associated with the class loader.                 |
| 2    | <u><a href="#">protected Class&lt;?&gt; defineClassStringname, byte[]b, intoff, intlen</a></u><br><br>This method converts an array of bytes into an instance of class Class.                                                                               |
| 3    | <u><a href="#">protected Class&lt;?&gt; defineClassStringname, byte[]b, intoff, intlen, ProtectionDomainprotectionDomain</a></u><br><br>This method converts an array of bytes into an instance of class Class, with an optional ProtectionDomain           |
| 4    | <u><a href="#">protected Class&lt;?&gt; defineClassStringname, ByteBufferb, ProtectionDomainprotectionDomain</a></u><br><br>This method converts a ByteBuffer into an instance of class Class, with an optional ProtectionDomain.                           |
| 5    | <u><a href="#">protected Package definePackageStringname, StringspecTitle, StringspecVersion, StringspecVendor, StringimplTitle, StringimplVersion, StringimplVendor, URLsealBase</a></u><br><br>This method defines a package by name in this ClassLoader. |
| 6    | <u><a href="#">protected Class&lt;?&gt; findClassStringname</a></u><br><br>This method finds the class with the specified binary name.                                                                                                                      |

7

[protected String findLibraryStringlibname](#)

This method returns the absolute path name of a native library.

8

[protected Class<?> findLoadedClassStringname](#)

This method returns the class with the given binary name if this loader has been recorded by the Java virtual machine as an initiating loader of a class with that binary name.

9

[protected URL findResourceStringname](#)

This method Finds the resource with the given name.

10

[protected Enumeration<URL> findResourcesStringname](#)

This method returns an enumeration of URL objects representing all the resources with the given name.

11

[protected Class<?> findSystemClassStringname](#)

This method finds a class with the specified binary name, loading it if necessary.

12

[protected Package getPackageStringname](#)

This method returns a Package that has been defined by this class loader or any of its ancestors.

13

[protected Package\[\] getPackages](#)

This method returns all of the Packages defined by this class loader and its ancestors.

14

[ClassLoader getParent](#)

This method returns the parent class loader for delegation.

15

[URL getResourceStringname](#)

This method finds the resource with the given name.

16

[InputStream getResourceAsStreamStringname](#)

This method returns an input stream for reading the specified resource.

17

[Enumeration<URL> getResourcesStringname](#)

This method finds all the resources with the given name.

18

[static ClassLoader getSystemClassLoader](#)

This method returns the system class loader for delegation.

19

[static URL getSystemResourceStringname](#)

This method find a resource of the specified name from the search path used to load classes.

20

[static InputStream getSystemResourceAsStreamStringname](#)

This method is open for reading, a resource of the specified name from the search path used to load classes.

21 [static Enumeration<URL> getSystemResourcesStringname](#)

This method finds all resources of the specified name from the search path used to load classes.

22 [Class<?> loadClassStringname](#)

This method loads the class with the specified binary name.

23 [protected Class<?> loadClassStringname, booleanresolve](#)

This method loads the class with the specified binary name.

24 [protected void resolveClassClass < ? > c](#)

This method links the specified class.

25 [void setClassAssertionStatusStringclassName, booleanenabled](#)

This method sets the desired assertion status for the named top-level class in this class loader and any nested classes contained therein.

26 [void setDefaultAssertionStatusbooleanenabled](#)

This method sets the default assertion status for this class loader.

27 [void setPackageAssertionStatusStringpackageName, booleanenabled](#)

This method sets the package default assertion status for the named package.

28 [protected void setSignersClass < ? > c, Object\[\]signers](#)

This method sets the signers of a class.

## Methods inherited

This class inherits methods from the following classes:

• java.lang.Object  
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