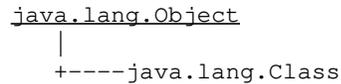


Class `java.lang.Class`



public final class **Class**
extends [Object](#)

Class objects contain runtime representations of classes. Every object in the system is an instance of some Class, and for each Class there is one of these descriptor objects. A Class descriptor is not modifiable at runtime.

The following example uses a Class object to print the Class name of an object:

```
void printClassName(Object obj) {
    System.out.println("The class of " + obj +
        " is " + obj.getClass().getName());
}
```

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Returns the runtime Class descriptor for the specified Class.
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Returns the name of this Class.
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Returns a boolean indicating whether or not this Class is an interface.
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Creates a new instance of this Class.

o **toString()**

Returns the name of this Class or this interface.

Methods

o **forName**

```
public static Class forName(String className) throws ClassNotFoundException
```

Returns the runtime Class descriptor for the specified Class. For example, the following code fragment returns the runtime Class descriptor for the Class named java.lang.Thread:

```
Class t = Class.forName("java.lang.Thread")
```

Parameters:

className – the fully qualified name of the desired Class

Throws: ClassNotFoundException

If the Class could not be found.

o **newInstance**

```
public Object newInstance() throws InstantiationException, IllegalAccessException
```

Creates a new instance of this Class.

Returns:

the new instance of this Class.

Throws: InstantiationException

If you try to instantiate an abstract class or an interface, or if the instantiation fails for some other reason.

Throws: IllegalAccessException

If the class or initializer is not accessible.

o **getName**

```
public String getName()
```

Returns the name of this Class.

o **getSuperclass**

```
public Class getSuperclass()
```

Returns the superclass of this Class.

o **getInterfaces**

```
public Class[] getInterfaces()
```

Returns the interfaces of this Class. An array of length 0 is returned if this Class implements no interfaces.

o **getClassLoader**

```
public ClassLoader getClassLoader()
```

Returns the Class loader of this Class. Returns null if this Class does not have a Class loader.

See Also:

ClassLoader

o **isInterface**

```
public boolean isInterface()
```

Returns a boolean indicating whether or not this Class is an interface.

o **toString**

```
public String toString()
```

Returns the name of this Class or this interface. The word "class" is prepended if it is a Class; the word "interface" is prepended if it is an interface.

Overrides:

toString in class Object