

JAVA - THE PROPERTIES CLASS

http://www.tutorialspoint.com/java/java_properties_class.htm

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Properties is a subclass of Hashtable. It is used to maintain lists of values in which the key is a String and the value is also a String.

The Properties class is used by many other Java classes. For example, it is the type of object returned by System.getProperties when obtaining environmental values.

Properties define the following instance variable. This variable holds a default property list associated with a Properties object.

```
Properties defaults;
```

Below given are the list of constructors provided by the properties class

SR.No Constructors and Description

- Properties**
This constructor creates a Properties object that has no default values
- Properties(Properties propDefault)**
creates an object that uses propDefault for its default values. In both cases, the property list is empty

Apart from the methods defined by Hashtable, Properties define the following methods:

SN Methods with Description

- String getProperty(String key)**
Returns the value associated with key. A null object is returned if key is neither in the list nor in the default property list.
- String getProperty(String key, String defaultProperty)**
Returns the value associated with key. defaultProperty is returned if key is neither in the list nor in the default property list.
- void listPrintStream(OutputStream streamOut)**
Sends the property list to the output stream linked to streamOut.
- void listPrintWriter(Writer streamOut)**
Sends the property list to the output stream linked to streamOut.
- void load(InputStream streamIn) throws IOException**
Inputs a property list from the input stream linked to streamIn.
- Enumeration propertyNames()**

Returns an enumeration of the keys. This includes those keys found in the default property list, too.

7 **Object** `setPropertyStringkey, Stringvalue`

Associates value with key. Returns the previous value associated with key, or returns null if no such association exists

8 **void** `storeOutputStreamstreamOut, Stringdescription`

After writing the string specified by description, the property list is written to the output stream linked to streamOut

Example:

The following program illustrates several of the methods supported by this data structure:

```
import java.util.*;

public class PropDemo {

    public static void main(String args[]) {
        Properties capitals = new Properties();
        Set states;
        String str;

        capitals.put("Illinois", "Springfield");
        capitals.put("Missouri", "Jefferson City");
        capitals.put("Washington", "Olympia");
        capitals.put("California", "Sacramento");
        capitals.put("Indiana", "Indianapolis");

        // Show all states and capitals in hashtable.
        states = capitals.keySet(); // get set-view of keys
        Iterator itr = states.iterator();
        while(itr.hasNext()) {
            str = (String) itr.next();
            System.out.println("The capital of " +
                str + " is " + capitals.getProperty(str) + ".");
        }
        System.out.println();

        // look for state not in list -- specify default
        str = capitals.getProperty("Florida", "Not Found");
        System.out.println("The capital of Florida is "
            + str + ".");
    }
}
```

This would produce the following result:

```
The capital of Missouri is Jefferson City.
The capital of Illinois is Springfield.
The capital of Indiana is Indianapolis.
The capital of California is Sacramento.
The capital of Washington is Olympia.

The capital of Florida is Not Found.
```

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