

JAVA.UTIL.OBSERVABLE.HASCHANGED METHOD

http://www.tutorialspoint.com/java/util/observable_haschanged.htm

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Description

The **java.util.Observable.hasChanged** method returns if this object has changed.

Declaration

Following is the declaration for **java.util.Observable.hasChanged** method

```
public boolean hasChanged()
```

Parameters

- NA

Return Value

This method returns **true** if object has changed *by arecent call to setChanged method*, otherwise it returns **false**.

Exception

- NA

Example

The following example shows the usage of java.util.Observable.hasChanged method.

```
package com.tutorialspoint;

import java.util.Observable;
import java.util.Observer;

class ObservedObject extends Observable {
    private String watchedValue;

    public ObservedObject(String value) {
        watchedValue = value;
    }

    public void setValue(String value) {
        // if value has changed notify observers
        if(!watchedValue.equals(value)) {
            watchedValue = value;

            // mark as value changed
            setChanged();
        }
    }
}

public class ObservableDemo implements Observer {
    public String name;
    public ObservableDemo(String name) {
        this.name = name;
    }

    public static void main(String[] args) {
        // create watched and watcher objects
        ObservedObject watched = new ObservedObject("Original Value");
        // watcher object listens to object change
        ObservableDemo watcher = new ObservableDemo("Watcher");
```

```
// add observer to the watched object
watched.addObserver(watcher);

// trigger value change
System.out.println("setValue method called...");
watched.setValue("New Value");
// check if value has changed
if(watched.hasChanged())
System.out.println("Value changed");
else
System.out.println("Value not changed");
}

public void update(Observable obj, Object arg) {
System.out.println("Update called");
}
}
```

Let us compile and run the above program, this will produce the following result:

```
setValue method called...
```

```
Value changed
```

```
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```