

Please visit website: <http://cxyroad.com>

=====

###

demo

```

```
public class Singleton {  
    //  
    private Singleton() {}  
    //  
    private static final Singleton instance = new Singleton();  
  
    public static Singleton getInstance() {  
        return instance;  
    }  
}
```

```

`getInstance()` `Singleton`

\*\*\*\*

\*\*\*\*

```

```
public class Singleton {  
    //  
    private Singleton() {}  
    //  
    private static Singleton instance = null;  
    public static Singleton getInstance() {  
        if (instance == null) {  
            instance = new Singleton();  
        }  
        return instance;  
    }  
}
```

...

`if` `instance` `Singleton`

###

new

```
...  
public class Singleton {  
    //  
    private Singleton() {}  
    private static Singleton instance = null;  
    public static Singleton getInstance() {  
        //  
        if (instance == null) {  
            //  
            synchronized (Singleton.class) {  
                //  
                if (instance == null) {  
                    instance = new Singleton();  
                }  
            }  
        }  
        return instance;  
    }  
}
```

...

`synchronized``Singleton`

A B B new

###

`instance = new Singleton();`

\* a.  
\* b.  
\* c. `instance`

a b c

a c b `instance` ``return instance;`

[](<http://cxyroad.com/>  
<https://mp.weixin.qq.com/s/CrXYubsQ32DuIDxtnVqFrQ>")  
`volatile`

```  
public class Singleton {  
 //  
 private Singleton() {}  
 private volatile static Singleton instance = null;  
 public static Singleton getInstance() {  
 //  
 if (instance == null) {  
 //  
 synchronized (Singleton.class) {  
 //  
 if (instance == null) {  
 instance = new Singleton();  
 }  
 }  
 }  
 }  
}

```
        }
    }
}
```
####

****

```
public class Singleton {
    // private Singleton() {}

    private static class SingletonHolder {
        // private static final Singleton INSTANCE = new Singleton();
    }

    public static Singleton getInstance() {
        // return SingletonHolder.INSTANCE;
    }
}
```
`getInstance()`



* `Singleton`  

* `true`  

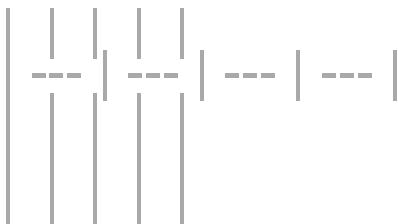
* `newInstance`
```

```
```
// Constructor constructor = Singleton.class.getDeclared
Constructor();
// constructor.setAccessible(true);
// Singleton singleton1 = (Singleton)constructor.newInstance();
Singleton singleton2 = (Singleton)constructor.newInstance();
// System.out.println(singleton1.equals(singleton2));
```
`false`
```

\*\*\*\*

```
```
public enum SingletonEnum {
    INSTANCE;
}
```

```



\*\*\*\*\*

\*\*\*\*\* Java

: <https://juejin.cn/post/7358011504966877236>