## SINGLETON PATTERN

## EJEMPLOS

- Objetos que necesitamos se creen una sola vez:
  - registros
  - preferencias globales o configuración
  - logging
  - caches
  - pools
  - • •

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Ensure a class only has one instance, and provide a global point of access to it.

— GoF

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```
package org.formacion.singleton;
public class Unico implements Serializable {
 private static Unico INSTANCE;
 public static Unico getUnico() {
   if (INSTANCE == null) {
     INSTANCE = new Unico();
   return INSTANCE;
```

¿problemas?

```
package org.formacion.singleton;
public class Unico implements Serializable {
 private static Unico INSTANCE;
 private Unico() {}
 public static Unico getUnico() {
   if (INSTANCE == null) {
     INSTANCE = new Unico();
   return INSTANCE;
```

¿Más problemas?

```
package org.formacion.singleton;
public class Unico implements Serializable {
 private static Unico INSTANCE;
 private Unico() {}
 public synchronized static Unico getUnico() {
   if (INSTANCE == null) {
     INSTANCE = new Unico();
   return INSTANCE;
```

¿Más Problemas?

```
package org.formacion.singleton;
public class Unico implements Serializable {
 private static Unico INSTANCE;
 private Unico() {}
 public synchronized static Unico getUnico() {
   if (INSTANCE == null) {
     INSTANCE = new Unico();
   return INSTANCE;
 private Object readResolve() {
                                                  → Controla la des-serialización
      return INSTANCE;
                                                            de un objeto
```

## A PARTIR DE JAVA 1.5 : USAR ENUMS

```
public enum Unico {
   INSTANCE;

   // metodos
}
```

A partir de Java 1.5 se recomienda usar Enums con una sola instancia

Unico unico = Unico.INSTANCE;