





















```
public class PetFactory implements Factory {
 protected static PetFactory instance;
  protected PetFactory(){}
 public static PetFactory getInstance){
    if (this.instance == null){
        this.instance = new PetFactory();
   return this.instance;
 }
 public Pet createPet(){
 }
}
public class MockPetFactory extends
PetFactory{
 public setInstance(PetFactory factory){
    this.instance = factory
 }
 public Pet createPet(){
}
```

Breaking Dependencies w/ Singleton

- There are two primary ways to work with breaking dependencies of a singleton.
 - Is the Singleton property necessary?
 - No
 - Relax the singleton property by making the constructor public, creating a new instance, and allowing the setting of a new instance.
 - [Optionally] you can convert the class to a regular class.
 - Yes
 - Permeate the class constructor and instance variable from private —> protected.
 - Create a child class of the singleton (used only for testing purposes).
 - Write a setter for the instance in the child class.
 - If there are a large number of global instance variables, then there may be deeper structural deficiencies in the code, such as failing to follow SRP.

```
public class PetFactory implements Factory {
  protected static PetFactory instance;
  protected PetFactory(){}
  public static PetFactory getInstance){
    if (this.instance == null){
        this.instance = new PetFactory();
    return this.instance;
  public Pet createPet(){
public class MockPetFactory extends
PetFactory{
  public setInstance(PetFactory factory){
    this.instance = factory
  public Pet createPet(){
```

Demo Part 1