How to make spring inject value into a static field

I know this may looks like a previously asked question but I'm facing a different problem here.

I have a utility class that has only static methods. I don't and I won't take an instance from it.

```
public class Utils{
    private static Properties dataBaseAttr;
    public static void methodA(){
    }
    public static void methodB(){
    }
}
```

Now I need Spring to fill dataBaseAttr with database attributes Properties.Spring config is:

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:util="http://www.springframework.org/schema/util"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
    http://www.springframework.org/schema/util
http://www.springframework.org/schema/util
http://www.springframework.org/schema/util
http://www.springframework.org/schema/util
http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util-3.0.xsd">
<util:properties id="dataBaseAttr"
    location="file:#{classPathVariable.path}/dataBaseAttr.properties" />
</beans>
```

I already done it in other beans but the problem here in this class (Utils) isn't a bean, And if I make it a bean nothing changes I still can't use the variable since the class will not be instantiated and variable always equals null.

```
java spring configuration app-config
```





2 Answers

You have two possibilities:

- 1. non-static setter for static property/field;
- 2. using org.springframework.beans.factory.config.MethodInvokingFactoryBean to invoke a static setter.

In the first option you have a bean with a regular setter but instead setting an instance property you set the static property/field.

```
public void setTheProperty(Object value) {
    foo.bar.Class.STATIC_VALUE = value;
}
```

but in order to do this you need to have an instance of a bean that will expose this setter (its more like an workeround).

In the second case it would be done as follows:

On you case you will add a new setter on the $\,\tt utils\,$ class:

```
public static setDataBaseAttr(Properties p)
```

and in your context you will configure it with the approach exemplified above, more or less like:

edited Jul 9 '15 at 9:57

Tomislav Nakic-Alfirevic
8,112 5 28 45

answered Jul 4 '12 at 7:36

Francisco Spaeth
17.6k 4 47 84

Thanks a lot, you really saved my day. - Osama Felfel Jul 4 '12 at 8:29

you are welcome! - Francisco Spaeth Jul 4 '12 at 8:46

I didn't try 1st solution since I didn't understand it well. I tried 2nd solution and it worked great. – Osama Felfel Jul 4 '12 at 8:58

- Definitely prefer the second of these choices over the first. Setting static fields every time an instance is created is a really weird pattern. – Patrick May 30 '14 at 19:28
- staticMethod is a property of MethodInvokingFactoryBean and is configured with the fully qualified static method name, wish will be invoked with the arguments provided to the property argument . – Francisco Spaeth Dec 23 '15 at 16:25

I've had a similar requirement: I needed to inject a Spring-managed repository bean into my Person entity class ("entity" as in "something with an identity", for example an JPA entity). A Person instance has friends, and for this Person instance to return its friends, it shall delegate to its repository and query for friends there.

```
public class Person {
    private static PersonRepository personRepository;
    @Id
    @GeneratedValue
    private long id;
    public static void setPersonRepository(PersonRepository personRepository){
         this.personRepository = personRepository;
    public Set<Person> getFriends(){
         return personRepository.getFriends(id);
@Repository
public class PersonRepository {
    public Person get Person(long id) {
        // do database-related stuff
    \textbf{public Set} < \textbf{Person} > \texttt{getFriends}(\textbf{long id}) \ \{
         // do database-related stuff
}
```

So how did I inject that PersonRepository singleton into the static field of the Person class?

I created a @configuration, which gets picked up at Spring ApplicationContext construction time. This @configuration gets injected with all those beans that I need to inject as static fields into other classes. Then with a @PostConstruct annotation, I catch a hook to do all static field injection logic.

```
@Configuration
public class StaticFieldInjectionConfiguration {
    @Inject
    private PersonRepository personRepository;
    @PostConstruct
    private void init() {
        Person.setPersonRepository(personRepository);
    }
}
```

11.4k 10 72 124

How is it possible you are able to access this from a static method ? I don't believe this is possible at all! Shouldn't it be Person.personRepository = personRepository ? – Jonas Geiregat May 8 '15 at 8:39

- 3 @JonasGeiregat it is possible as the method is static and it is accessing static variable Anuj Acharya Nov 26 '15 at 19:19
- 3 I am wondering how someone reference a static variable through 'this' in a static context? Kripz Apr 28 '16 at 19:02