

Custom Injection

Example custom-injection can be browsed at <https://github.com/apache/tomee/tree/master/examples/custom-injection>

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## Pickup

```
package org.superbiz.enventries;

//START SNIPPET: code

import java.beans.PropertyEditorManager;

public enum Pickup {

    HUMBUCKER,
    SINGLE_COIL;

    // Here's the little magic where we register the PickupEditor
    // which knows how to create this object from a string.
    // You can add any of your own Property Editors in the same way.
    static {
        PropertyEditorManager.registerEditor(Pickup.class, PickupEditor.class);
    }
}
```

## PickupEditor

```

package org.superbiz.enventries;

/**
 * With a java.beans.PropertyEditor, you can go way beyond the built-in
 * types that OpenEJB supports and can extend dependency injection to
 * just about anywhere.
 * <p/>
 * In the world of electric guitars, two types of pickups are used: humbucking, and
 * single-coil.
 * Guitarists often refer to their guitars as HSS, meaning a guitar with 1 humbucker
 * and
 * 2 single coil pickups, and so on. This little PropertyEditor supports that
 * shorthand notation.
 *
 * @version $Revision$ $Date$
 */
//START SNIPPET: code
public class PickupEditor extends java.beans.PropertyEditorSupport {

    public void setAsText(String text) throws IllegalArgumentException {
        text = text.trim();

        if (text.equalsIgnoreCase("H")) setValue(Pickup.HUMBUCKER);
        else if (text.equalsIgnoreCase("S")) setValue(Pickup.SINGLE_COIL);
        else throw new IllegalStateException("H and S are the only supported Pickup
aliases");
    }
}

```

## Stratocaster

```

package org.superbiz.enventries;

import javax.annotation.Resource;
import javax.ejb.Stateless;
import java.io.File;
import java.util.Date;
import java.util.List;
import java.util.Map;

/**
 * In addition to the standard env-entry types (String, Integer, Long, Short, Byte,
 * Boolean, Double, Float, Character)
 * OpenEJB supports many other types.
 */
//START SNIPPET: code
@Stateless
public class Stratocaster {

```

```

@Resource(name = "pickups")
private List<Pickup> pickups;

@Resource(name = "style")
private Style style;

@Resource(name = "dateCreated")
private Date dateCreated;

@Resource(name = "guitarStringGuages")
private Map<String, Float> guitarStringGuages;

@Resource(name = "certificateOfAuthenticity")
private File certificateOfAuthenticity;

public Date getDateCreated() {
    return dateCreated;
}

/**
 * Gets the guage of the electric guitar strings
 * used in this guitar.
 *
 * @param string
 * @return
 */
public float getStringGuage(String string) {
    return guitarStringGuages.get(string);
}

public List<Pickup> getPickups() {
    return pickups;
}

public Style getStyle() {
    return style;
}

public File getCertificateOfAuthenticity() {
    return certificateOfAuthenticity;
}
}

```

## Style

```

package org.superbiz.ententries;

/**
 * @version $Revision$ $Date$
 */
//START SNIPPET: code
public enum Style {

    STANDARD,
    DELUX,
    VINTAGE;
}

```

## StratocasterTest

```

package org.superbiz.ententries;

import junit.framework.TestCase;

import javax.ejb.EJB;
import javax.ejb.embeddable.EJBContainer;
import java.io.File;
import java.text.DateFormat;
import java.util.Date;
import java.util.List;
import java.util.Locale;

import static java.util.Arrays.asList;

/**
 * @version $Rev: 1090810 $ $Date: 2011-04-10 07:49:26 -0700 (Sun, 10 Apr 2011) $
 */
//START SNIPPET: code
public class StratocasterTest extends TestCase {

    @EJB
    private Stratocaster strat;

    public void test() throws Exception {
        EJBContainer.createEJBContainer().getContext().bind("inject", this);

        Date date = DateFormat.getDateInstance(DateFormat.MEDIUM, Locale.US).parse(
"Mar 1, 1962");
        assertEquals("Strat.getDateCreated()", date, strat.getDateCreated());

        List<Pickup> pickups = asList(Pickup.SINGLE_COIL, Pickup.SINGLE_COIL, Pickup
.SINGLE_COIL);
        assertEquals("Strat.getPickups()", pickups, strat.getPickups());
    }
}

```

```

        assertEquals("Strat.getStyle()", Style.VINTAGE, strat.getStyle());

        assertEquals("Strat.getStringGuage(\"E1\")", 0.052F, strat.getStringGuage("E1"));
        assertEquals("Strat.getStringGuage(\"A\")", 0.042F, strat.getStringGuage("A"));
        assertEquals("Strat.getStringGuage(\"D\")", 0.030F, strat.getStringGuage("D"));
        assertEquals("Strat.getStringGuage(\"G\")", 0.017F, strat.getStringGuage("G"));
        assertEquals("Strat.getStringGuage(\"B\")", 0.013F, strat.getStringGuage("B"));
        assertEquals("Strat.getStringGuage(\"E\")", 0.010F, strat.getStringGuage("E"));

        File file = new File("/tmp/strat-certificate.txt");
        assertEquals("Strat.getCertificateOfAuthenticity()", file, strat
            .getCertificateOfAuthenticity());
    }
}

```

## Running

-----  
T E S T S  
-----

```

Running org.superbiz.enventries.StratocasterTest
Apache OpenEJB 4.0.0-beta-1    build: 20111002-04:06
http://tomee.apache.org/
INFO - openejb.home = /Users/dblevins/examples/custom-injection
INFO - openejb.base = /Users/dblevins/examples/custom-injection
INFO - Using 'javax.ejb.embeddable.EJBContainer=true'
INFO - Configuring Service(id=Default Security Service, type=SecurityService,
provider-id=Default Security Service)
INFO - Configuring Service(id=Default Transaction Manager, type=TransactionManager,
provider-id=Default Transaction Manager)
INFO - Found EjbModule in classpath: /Users/dblevins/examples/custom-
injection/target/classes
INFO - Beginning load: /Users/dblevins/examples/custom-injection/target/classes
INFO - Configuring enterprise application: /Users/dblevins/examples/custom-injection
WARN - Method 'lookup' is not available for 'javax.annotation.Resource'. Probably
using an older Runtime.
INFO - Configuring Service(id=Default Stateless Container, type=Container, provider-
id=Default Stateless Container)
INFO - Auto-creating a container for bean Stratocaster: Container(type=STATELESS,
id=Default Stateless Container)

```

```
INFO - Configuring Service(id=Default Managed Container, type=Container, provider-
id=Default Managed Container)
INFO - Auto-creating a container for bean org.superbiz.enventries.StratocasterTest:
Container(type=MANAGED, id=Default Managed Container)
INFO - Enterprise application "/Users/dblevins/examples/custom-injection" loaded.
INFO - Assembling app: /Users/dblevins/examples/custom-injection
INFO - Jndi(name="java:global/custom-
injection/Stratocaster!org.superbiz.enventries.Stratocaster")
INFO - Jndi(name="java:global/custom-injection/Stratocaster")
INFO -
Jndi(name="java:global/EjbModule1663626738/org.superbiz.enventries.StratocasterTest!or
g.superbiz.enventries.StratocasterTest")
INFO -
Jndi(name="java:global/EjbModule1663626738/org.superbiz.enventries.StratocasterTest")
INFO - Created Ejb(deployment-id=Stratocaster, ejb-name=Stratocaster,
container=Default Stateless Container)
INFO - Created Ejb(deployment-id=org.superbiz.enventries.StratocasterTest, ejb-
name=org.superbiz.enventries.StratocasterTest, container=Default Managed Container)
INFO - Started Ejb(deployment-id=Stratocaster, ejb-name=Stratocaster,
container=Default Stateless Container)
INFO - Started Ejb(deployment-id=org.superbiz.enventries.StratocasterTest, ejb-
name=org.superbiz.enventries.StratocasterTest, container=Default Managed Container)
INFO - Deployed Application(path=/Users/dblevins/examples/custom-injection)
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.11 sec
```

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0