

Configuring Ant to Build Scala with WebObjects

Step1. Setup Properties for Scalac Task

You may edit (or add to) the `init.properties` Ant target in order to set up the appropriate properties for the `scalac` Ant task.

```
<property name="scala-library.jar"
value="${scala.home}/lib/scala-library.jar" />

<path id="build.classpath">
    <pathelement location="${scala-library.jar}" />
    <pathelement
location="${wo.local.frameworks}/ERExtensions.framework/Resources/Java/ERE
xtensions.jar" />
    <pathelement
location="${wo.local.frameworks}/ERJars.framework/Resources/Java/log4j-1.2
.14.jar" />
    <pathelement
location="${wo.system.frameworks}/JavaWebObjects.framework/Resources/Java/
javawebobjects.jar" />
    <pathelement
location="${wo.system.frameworks}/JavaEOAccess.framework/Resources/Java/ja
vaeoaccess.jar" />
    <pathelement
location="${wo.system.frameworks}/JavaEOControl.framework/Resources/Java/j
avaeocontrol.jar" />
    <pathelement
location="${wo.system.frameworks}/JavaFoundation.framework/Resources/Java/
javafoundation.jar" />
    <pathelement
location="${wo.local.frameworks}/ERAttachment.framework/Resources/Java/ERA
ttachment.jar" />
    <!--pathelement location="Other custom framework path, etc" /-->

    <pathelement location="bin" />
<fileset dir="Libraries">
    <include name="*.jar" />
</fileset>
<fileset dir="${wo.extensions}">
    <include name="*.jar" />
</fileset>
</path>

<taskdef resource="scala/tools/ant/antlib.xml">
    <classpath>
        <pathelement location="${scala.home}/lib/scala-compiler.jar" />
        <pathelement location="${scala-library.jar}" />
    </classpath>
</taskdef>
```

Notes:

1. The first block of `pathelements` define the classpaths required by the scala compiler.
2. The `taskdef` sets up the Ant `scalac` task

Step2. Edit the compile Target

Add the `scalac` task to the `compile` target. Make sure that it's placed after the `mkdir` task:

```
<scalac srcdir="Sources" destdir="bin" classpathref="build.classpath">  
  <include name="**/*.scala" />  
</scalac>
```

Step3. Add an `<otherclasspath>` entry for `scala-library.jar`

In the `build.woapp` target, add the following entry to add Scala to the built classpath for your WebObjects app.

```
<otherclasspath root="${scala.home}">  
  <include name="lib/scala-library.jar" />  
</otherclasspath>
```

Step4. Add `scala.home` to `build.properties`

Finally, you must set the `scala.home` property in the `build.properties` file.
This is the location of the Scala installation on your system. e.g: `/usr/share/scala`