

# 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/ERExtensions.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="${wo.system.frameworks}/JavaEOAccess.framework/Resources/Java/javaeoaccess.jar" />
  <pathelement location="${wo.system.frameworks}/JavaEOControl.framework/Resources/Java/javaeocontrol.jar" />
  <pathelement location="${wo.system.frameworks}/JavaFoundation.framework/Resources/Java/javafoundation.jar" />
  <pathelement location="${wo.local.frameworks}/ERAttachment.framework/Resources/Java/ERAttachment.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`