

Running Macker with Maven 2



Note

The original content is taken from the Maven Users Mailing list

Subject: Running Macker with Maven 2

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Hi,

I've recently been trying out the Macker tool (<http://innig.net/macker>) to enforce architectural rules in a project of mine. I did some searching in this mailing list as well as Google if there was a way to run Macker with Maven 2, but only found questions from others asking how this should be done. The existing maven-macker-plugin is for Maven 1, though I have seen a message that there apparently is a Maven 2 plugin in development.

Anyway, I have been fiddling around a bit and found a way to run Macker in Maven 2 until a proper plugin is available, which I thought I'd share here for anyone interested. As I still consider myself as a Maven 2 newbie, I would appreciate any feedback on this solution, if it seems reasonable at all. This is the first time I use the antrun plugin, and I have no experience using Ant before at all.

The description below is for a simple single project following the directory structure expected as default by Maven 2. It should however be simple to adapt it. This is going to be a bit lengthy, so bring a sandwich.

1. In your POM:

```
<build>
  ...
  <plugins>
    <plugin>
      <artifactId>maven-antrun-plugin</artifactId>
      <groupId>org.apache.maven.plugins</groupId>
      <version>1.1</version>
      <configuration>
        <tasks>
          <ant antfile="${basedir}/build.xml"
              inheritRefs="true">
            <target name="macker" />
          </ant>
        </tasks>
      </configuration>
    </plugin>
  </plugins>
  <dependencies>
    <dependency>
      <groupId>ant</groupId>
      <artifactId>ant-antlr</artifactId>
      <version>1.6.5</version>
    </dependency>
    <dependency>
      <groupId>antlr</groupId>
      <artifactId>antlrall</artifactId>
      <version>2.7.4</version>
    </dependency>
    <dependency>
      <artifactId>macker</artifactId>
      <groupId>innig</groupId>
      <version>0.4.2</version>
    </dependency>
    <dependency>
      <artifactId>innig-util</artifactId>
      <groupId>innig</groupId>
      <version>0.4.2</version>
    </dependency>
  </dependencies>
</build>
```

```
</dependency>
<dependency>
  <artifactId>jakarta-regexp</artifactId>
  <groupId>jakarta-regexp</groupId>
  <version>1.4</version>
</dependency>
<dependency>
  <artifactId>bcel</artifactId>
  <groupId>bcel</groupId>
  <version>5.1</version>
</dependency>
<dependency>
  <artifactId>jdom</artifactId>
  <groupId>jdom</groupId>
  <version>1.0</version>
</dependency>
<dependency>
  <artifactId>commons-lang</artifactId>
  <groupId>commons-lang</groupId>
  <version>1.0.1</version>
</dependency>
</dependencies>
</plugin>
...
</plugins>
```

```
...
</build>
```

2. The build.xml file in `${basedir}`. The location for this is configured in the POM plugin configuration above (`antfile="${basedir}/build.xml"`).

```
<?xml version="1.0"?>

<project name="project-title" default="macker">
  <description>
    Ant task to run the Macker tool.
  </description>

  <target name="macker">
    <taskdef name="macker"
      classname="net.innig.macker.ant.MackerAntTask"
      classpathref="maven.plugin.classpath"/>
    <macker>
      <!--
        This classpath tells Macker where to look for its own
        libraries, and the libraries used by the primary classes.
      -->
      <classpath refid="maven.plugin.classpath" />

      <!--
        Rules come from this file:
      -->
      <rules dir="src/test/macker" includes="macker.xml" />

      <!--
        Macker will apply those rules to these primary classes:
      -->
      <classes dir="target/classes">
        <include name="**/*.class" />
      </classes>
    </macker>
  </target>
</project>
```

3. The macker rules are placed in `${basedir}/src/test/macker/macker.xml`. This location is specified in build.xml above at `<rules dir="src/test/macker" includes="macker.xml" />`

```
<?xml version="1.0"?>
<!DOCTYPE macker PUBLIC
    "-//innig//DTD Macker 0.4//EN"
    "http://innig.net/macker/dtd/macker-0.4.dtd">

<macker>
  <ruleset name="Architectural rules for StoryType">
    <!--
      Define some rules here.
      See http://innig.net/macker/guide/index.html
    -->
  </ruleset>
</macker>
```

Using 'mvn antrun:run' will run Macker on your compiled classes in `${basedir}/target/classes/`

I hope I haven't forgot anything, and that this may be of interest for others as well 😊

Rune