

Building Java Application with *Apache ANT*

ASL Winter 14

Apache ANT 101

- Apache ANT is simple and convenient helper to build java application.
- Enables to build, package and run your program from Terminal with a single command.
- **You have to use ANT in the project!!!**
 1. It makes your life easier.
 2. The TAs can run you code.

Apache ANT 101

- Requires a build.xml file in the project root
- Recommended project structure:

```
./src          -- Contains Java source
./bin          -- Contains Class file
./lib          -- External jar libraries
./lib/postgresql.jar -- Needed!
./build.xml    -- Ant script
```

- *ANT* integrates well with most IDEs (e.g., eclipse, netbeans...)

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- An ANT-script consists of “targets”:

```
<target name="compile">  
    <javac srcdir="${src.dir}" destdir="${build.dir}"/>  
</target>
```

```
<target name="jar" depends="compile">  
    <jar jarfile="./${ant.project.name}.jar"  
        basedir="${build.dir}" />  
</target>
```

- To invoke target (from root directory):

```
ant jar
```

<*DEMO*>