

Repositories

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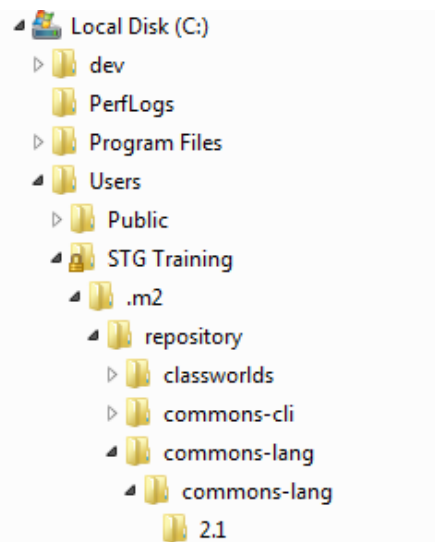


Outline

- **Dependency Repo**
- **Plugin Repo**
- **Releases/Snapshots**

Local Repo

- **Where Maven stores everything it downloads**
 - Installs in your home directory\.m2
 - C:\Users\<yourusername>\.m2\repository
- **Stores artifacts using the information that you provided for artifactId, groupId, and version**
 - C:\Users\<yourusername>\.m2\repository\commons-lang\commons-lang\2.1\commons-lang-2.1.jar
- **Avoids duplication by copying it in every project and storing it in your SCM**



Repositories

- **Simply just a http accessible location that you download files from**
- **Super pom.xml**
 - Default with the Maven installation
- **Default location**
 - <http://repo.maven.apache.org/maven2>
- **Multiple repositories allowed**
- **Corporate Repository**
 - Nexus (this is what the default repo is built on)
 - Artifactory

Dependency Repository

- Where we download all of our dependencies from
 - Can contain just releases and/or snapshots
 - Not uncommon to have them in separate repositories
- How do we specify our own repository

```
<repositories>
  <repository>
    <id>spring-snapshot</id>
    <name>Spring Maven SNAPSHOT Repository</name>
    <url>http://repo.springsource.org/libs-snapshot</url>
    <snapshots>
      <enabled>true</enabled>
    </snapshots>
    <releases>
      <enabled>false</enabled>
    </releases>
  </repository>
</repositories>
```

Plugin Repository

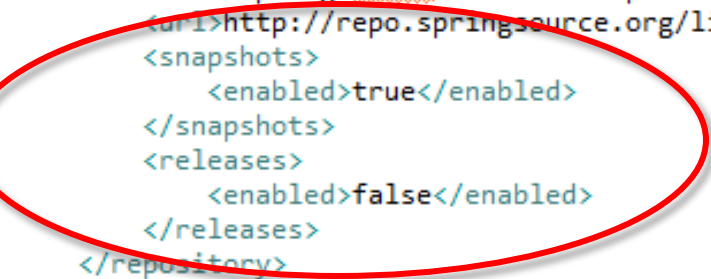
- Identical to Dependency Repositories, just deals with Plugins
- Will only look for Plugins, by design usually a separate repository

```
<pluginRepositories>
  <pluginRepository>
    <id>acme corp</id>
    <name>Acme Internal Corporate Repository</name>
    <url>http://acmecorp.com/plugins</url>
    <snapshots>
      <enabled>true</enabled>
    </snapshots>
    <releases>
      <enabled>true</enabled>
    </releases>
  </pluginRepository>
</pluginRepositories>
```

Releases / Snapshots

- Snapshots and releases can come from the same repo
- Why would projects not upload everything to the central repo
 - Snapshots
 - Milestones
 - Release Candidate
 - Release policies

```
<repositories>
  <repository>
    <id>spring-snapshot</id>
    <name>Spring Maven SNAPSHOT Repository</name>
    <url>http://repo.springsource.org/libs-snapshot</url>
    <snapshots>
      <enabled>true</enabled>
    </snapshots>
    <releases>
      <enabled>false</enabled>
    </releases>
  </repository>
</repositories>
```



Summary

- **Dependency repositories and Plugin repositories can be separate or the same repository**
- **Projects will often not upload their SNAPSHOT code up to the central repo even though their release project is hosted there**
- **Plugins are usually in the same repo as dependencies**
- **Companies should use a corporate repository internally to help lighten the load on the central repo**