Take the best Maven on your side.

Very fast introduction and basic principles to Maven

2 apr 2014
Excercise

- Download and install inside your ide the following libraries ready to be used:
  - twitter4j-core
  - twitter4j-stream
  - Gson (com.google.code.gson)
  - Mapdb (org.mapdb)
  - HttpClient (org.apache.httpcomponents)

5 min to do...
Maven

- Maven is a project development management and comprehension tool.

- Based on the concept of a project object model:
  - builds
  - dependency management
  - documentation creation
  - site publication

- Maven can be extended by plugins to utilize a number of other development tools for reporting or the build process.
Project Object Model

- Maven is based around the central concept of a **build lifecycle**. What this means is that the process for building and distributing a particular artifact (project) is **clearly defined**.

- For the person building a project, this means that it is only necessary to learn a **small set** of commands to build any Maven project, and the **POM** will ensure they get the results they desired.

- There are three built-in build lifecycles:
  - **Default** / Install (handles your project deployment)
  - **Clean** (handles project cleaning)
  - **Site** (creation of your project's site documentation)
Dependency management is one of the features of Maven that is best known to users and is one of the areas where Maven excels.

There is not much difficulty in managing dependencies for a single project, but when you start getting into dealing with multi-module projects and applications that consist of tens or hundreds of modules this is where Maven can help you a great deal in maintaining a high degree of control and stability.

```
<dependency>
  <groupId>dependencies-group</groupId>
  <artifactId>dependency-name</artifactId>
  <version>dependency-version</version>
</dependency>
```
  <modelVersion>4.0.0</modelVersion>
  <groupId>it.domain.projectname</groupId>
  <artifactId>artifact-name</artifactId>
  <version>1.0</version>
  <packaging>jar</packaging>
  <dependencies>
    <dependency>
      <groupId>org.twitter4j</groupId>
      <artifactId>twitter4j-stream</artifactId>
      <version>4.0.1</version>
    </dependency>
    .
    . More Dependencies
    .
  </dependencies>
</project>
Excercise

- Using maven (create a POM file also) to manage last lesson exercise (Spring example).
Let’s Try?!?!