

Maven Overview



You will learn how to ...

- Create Maven projects with Eclipse
- Add dependencies to Maven pom.xml file
- Build and run Maven projects
- Develop Maven projects for
 - Java apps and Spring apps
 - Import Maven projects
 - Run Maven from the Command-Line

Practical Results

- Cover the most common Maven tasks that you will need on daily projects
- Not an A to Z reference ... for that you can see Maven Reference Manual
- But don't worry, I will give you links to
 - Maven Reference Manual
 - 3 Maven eBooks
 - Maven Cheat Sheet



These are
FREE
resources :-)

Free Maven Resources

- **Maven Reference Manual**
 - www.luv2code.com/mavenreferencemanual
- **Maven eBooks**
 - www.luv2code.com/mavenebooks
- **Maven Cheat Sheet**
 - www.luv2code.com/mavencheatsheet

What is Maven?

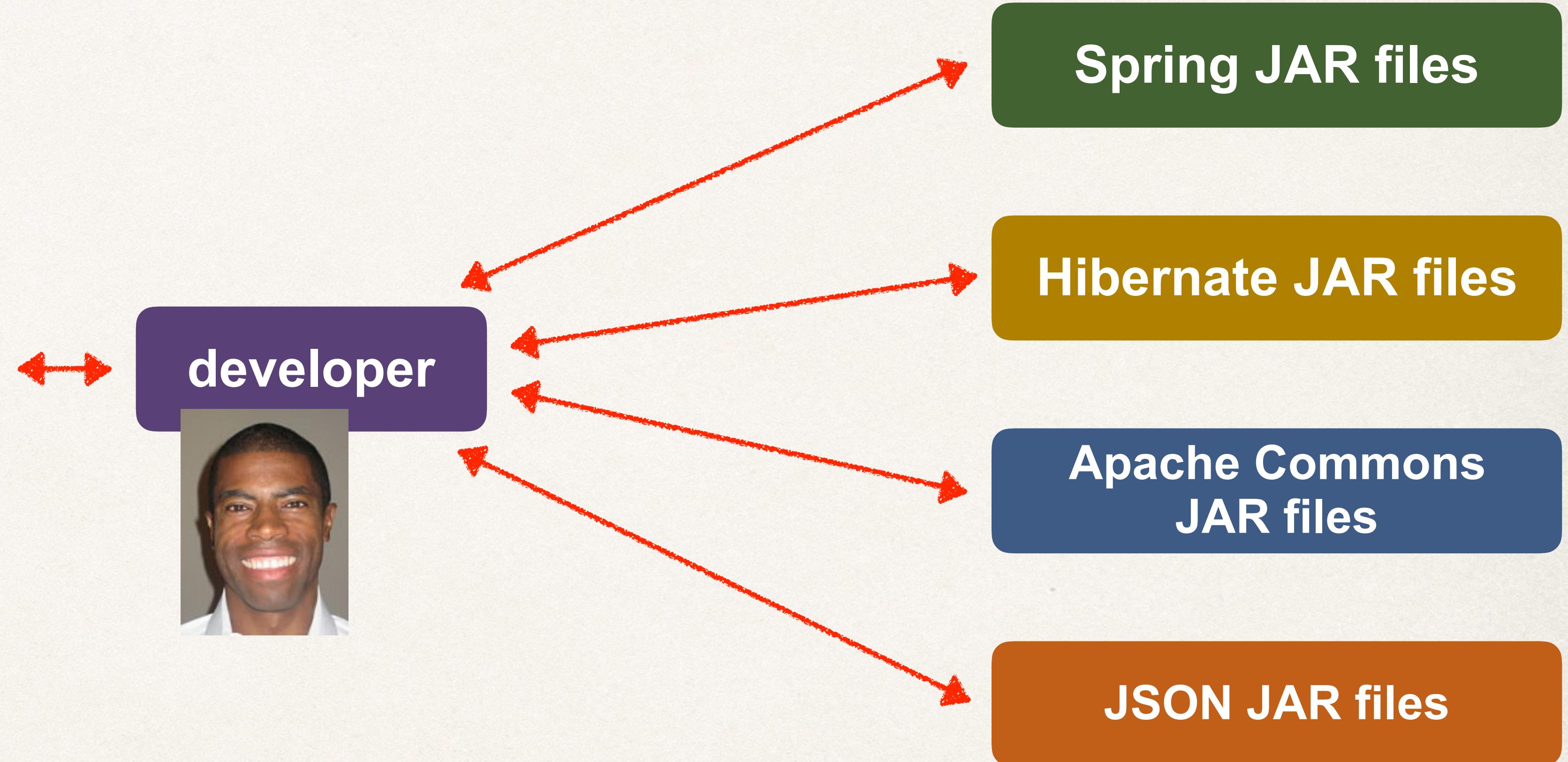
- Maven is a Project Management tool
- Most popular use of Maven is for build management and dependencies

What Problems Does Maven Solve?

- When building your Java project, you may need additional JAR files
 - For example: Spring, Hibernate, Commons Logging, JSON etc...
- One approach is to download the JAR files from each project web site
- Manually add the JAR files to your build path / classpath

My Project without Maven

My Super Cool App

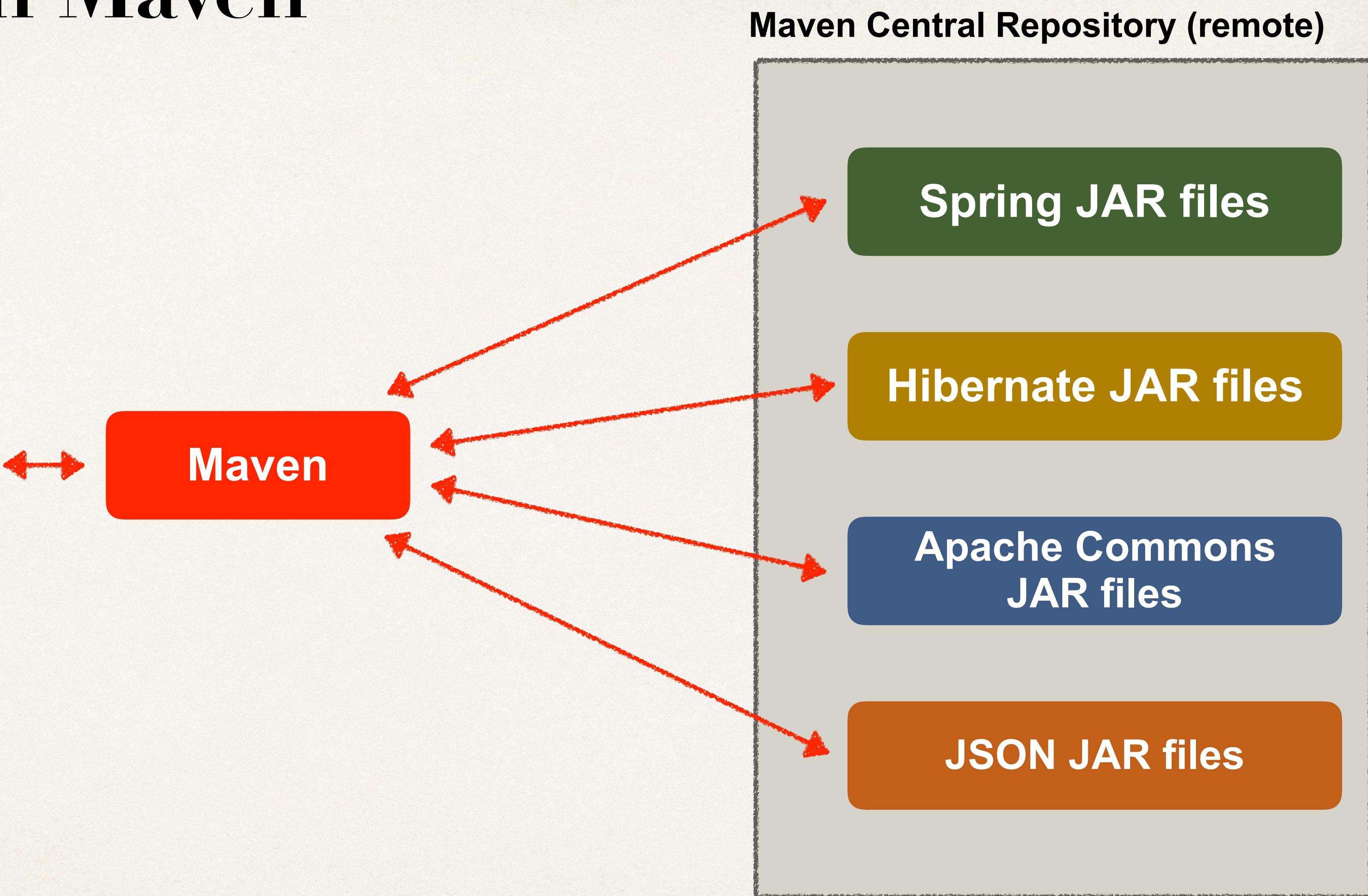
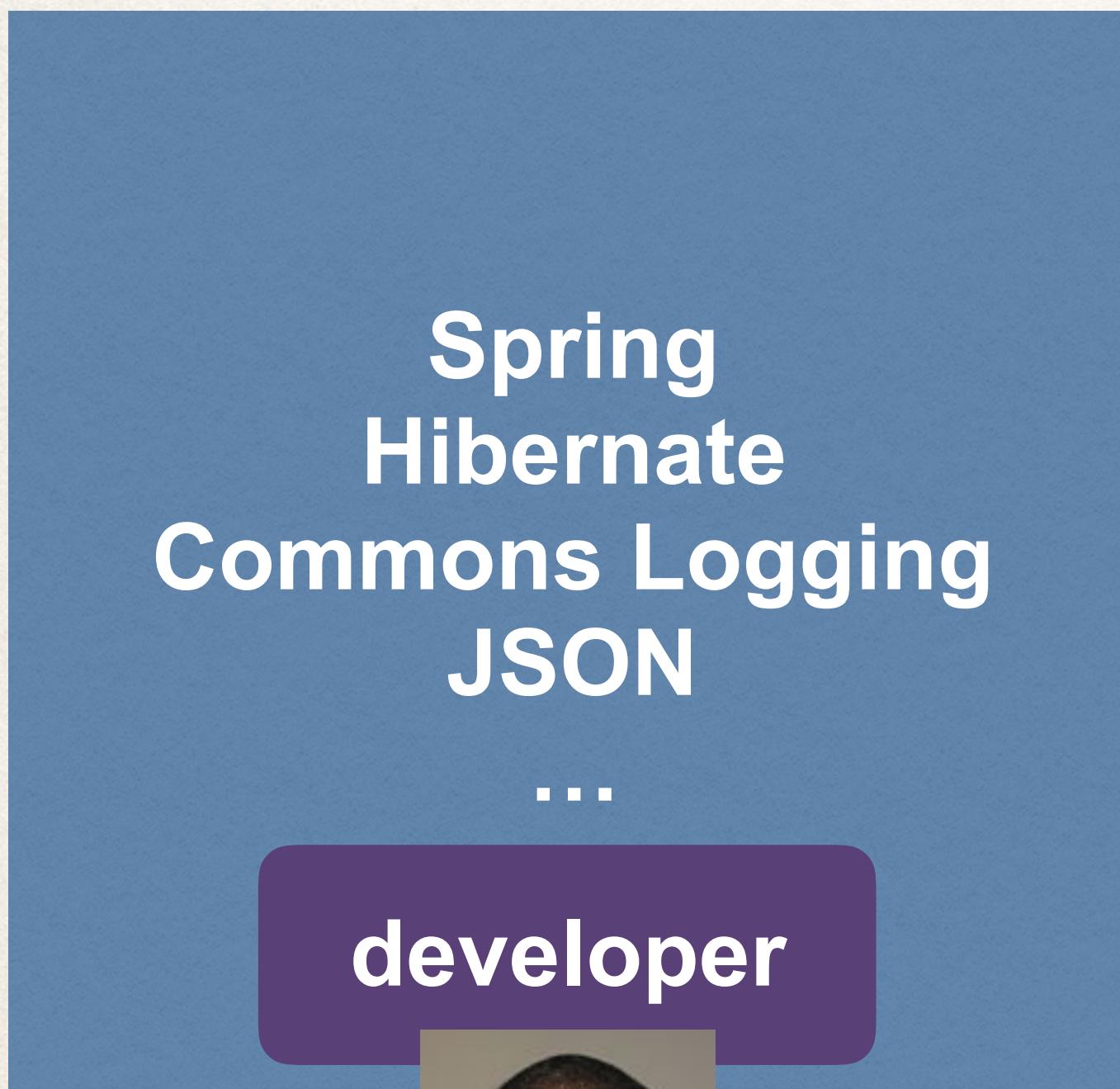


Maven Solution

- Tell Maven the projects you are working with (dependencies)
 - Spring, Hibernate etc
- Maven will go out and download the JAR files for those projects for you
- And Maven will make those JAR files available during compile/run
- Think of Maven as your friendly helper / personal shopper :-)

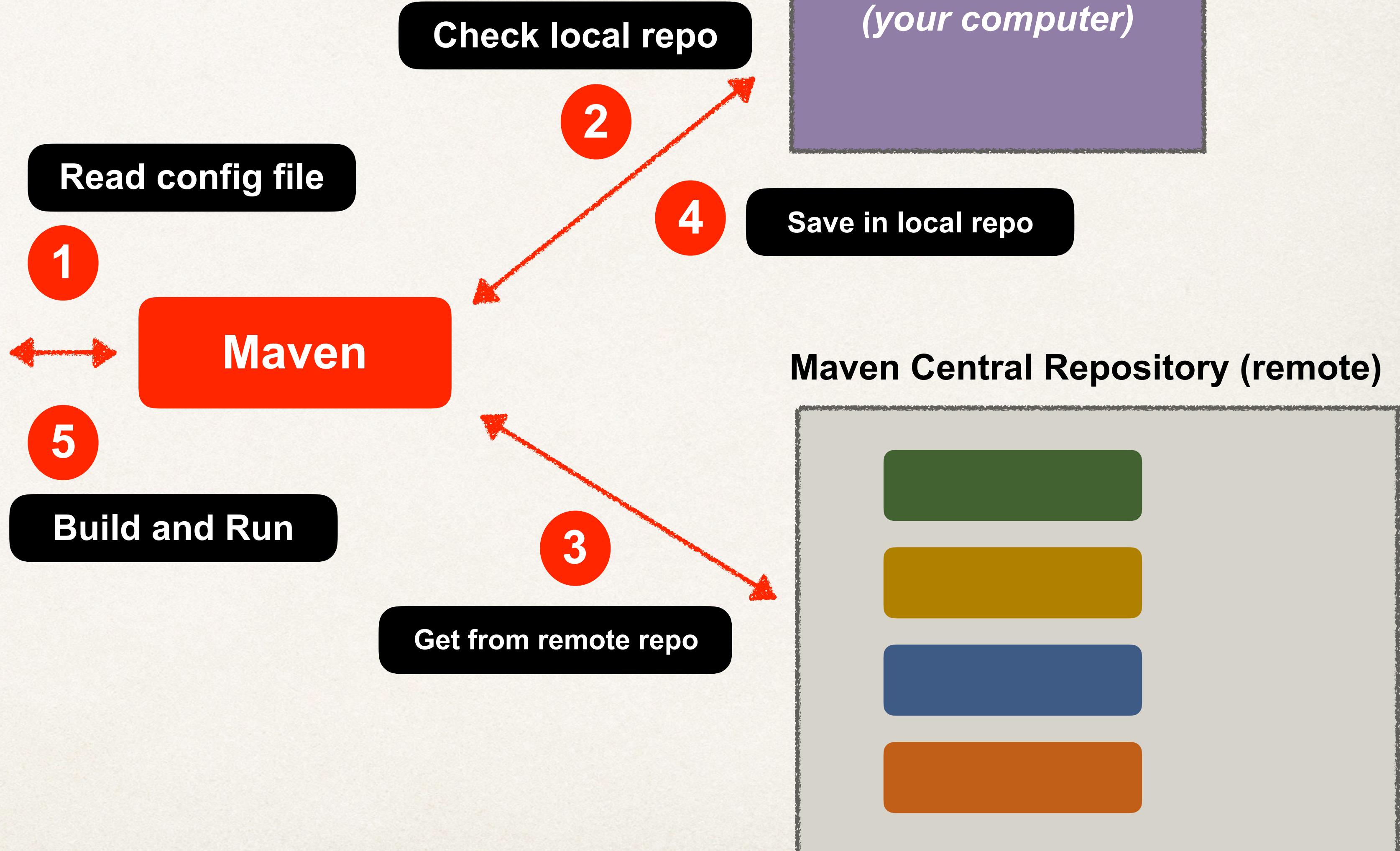
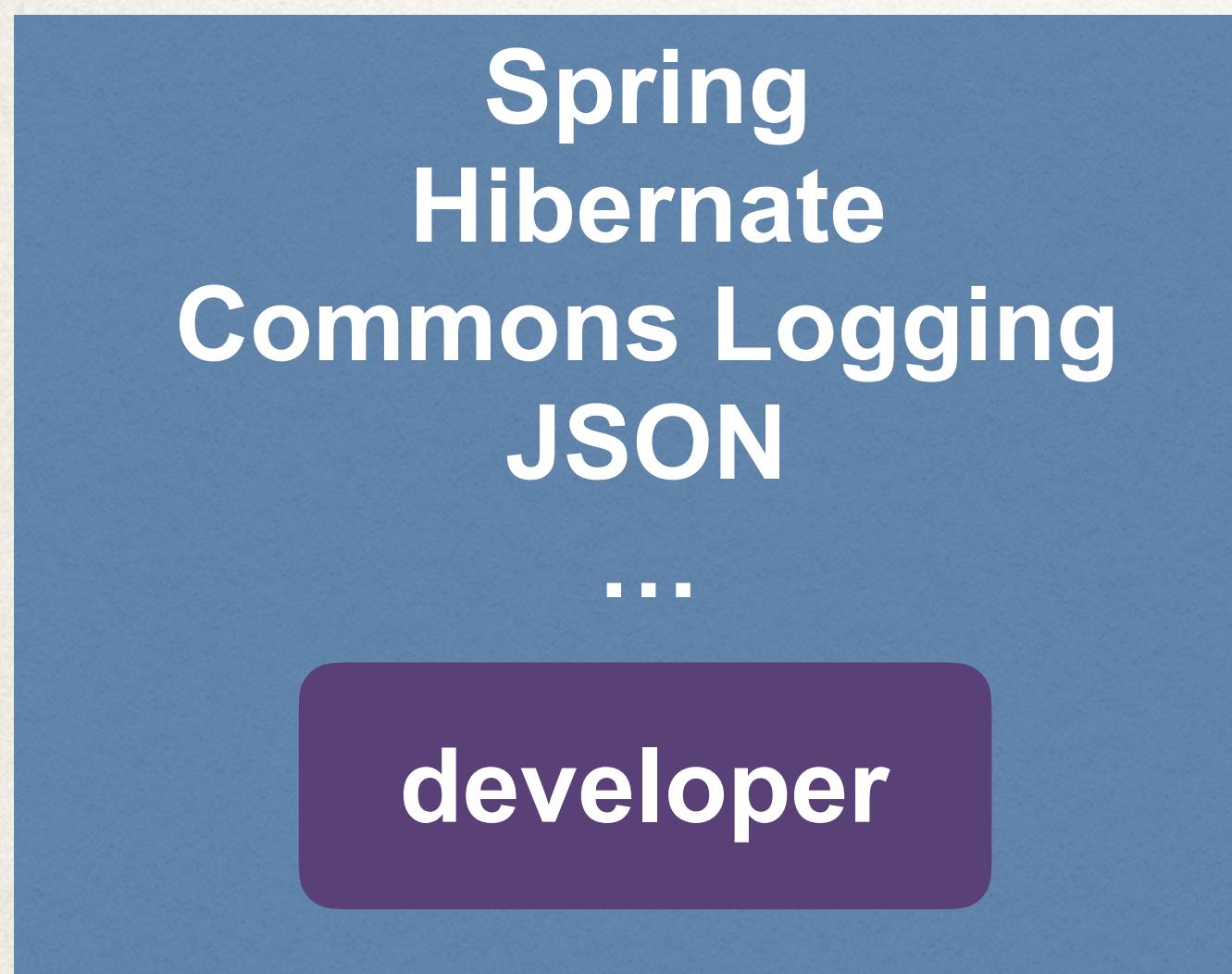
My Project with Maven

My Super Cool App



Maven - How It Works

Project Config file



Handling JAR Dependencies

- When Maven retrieves a project dependency
 - It will also download supporting dependencies
 - For example: Spring depends on commons-logging ...
- Maven will handle this for us automagically

Building and Running

- When you build and run your app ...
- Maven will handle class / build path for you
- Based on config file, Maven will add JAR files accordingly