

Maven Overview



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- Add dependencies to Maven pom.xml file

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- Create Maven projects with Eclipse
- Add dependencies to Maven pom.xml file
- Build and run Maven projects

Practical Results

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- Cover the most common Maven tasks that you will need on daily projects

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 - Maven Reference Manual

Free Maven Resources

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- **Maven Reference Manual**
- www.luv2code.com/mavenreferencemanual

What is Maven?

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- Most popular use of Maven is for build management and dependencies

What Problems Does Maven Solve?

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 - For example: Spring, Hibernate, Commons Logging, JSON etc...

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 - 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 Project without Maven

My Super Cool App



My Project without Maven

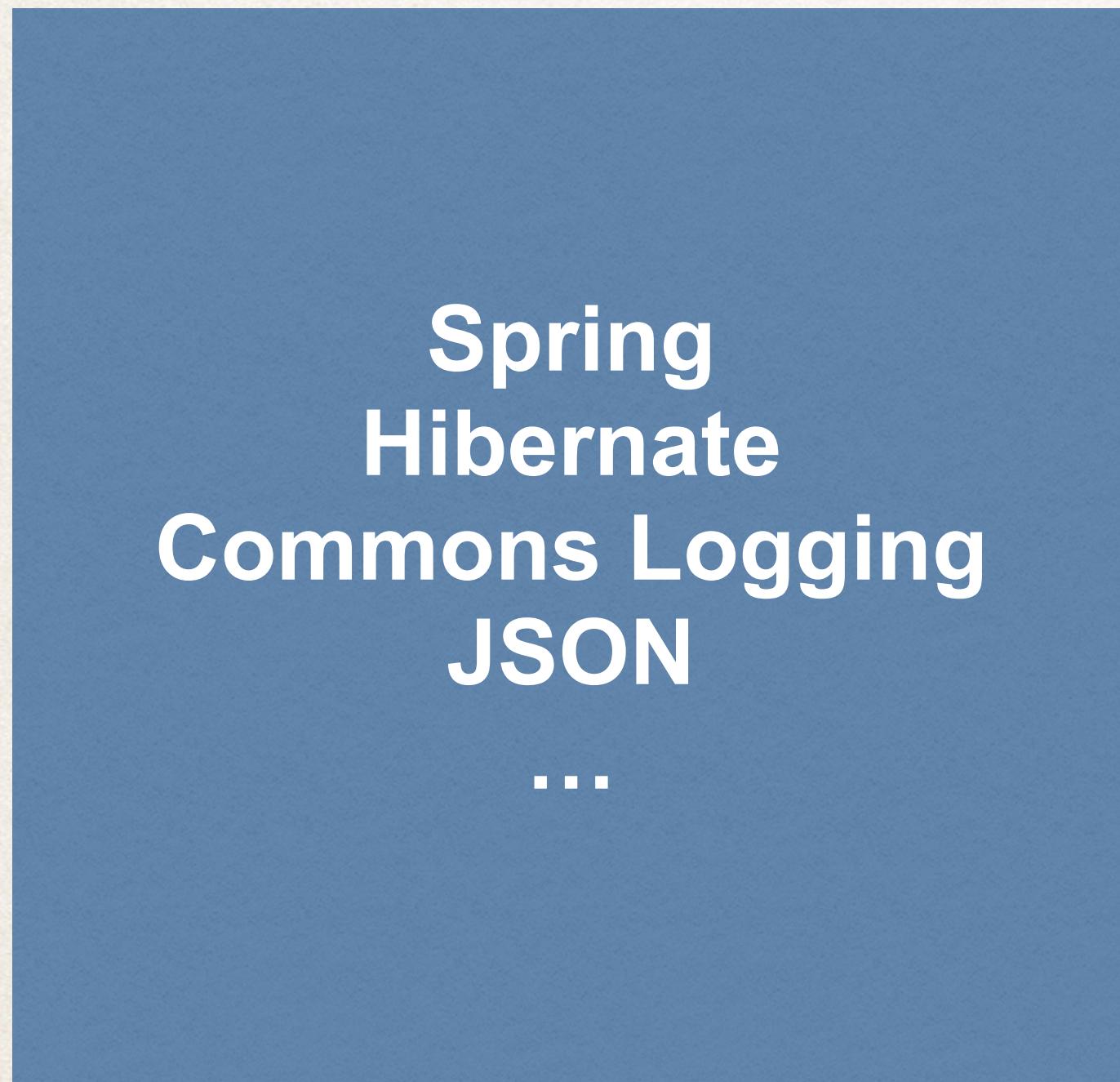
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↔ developer

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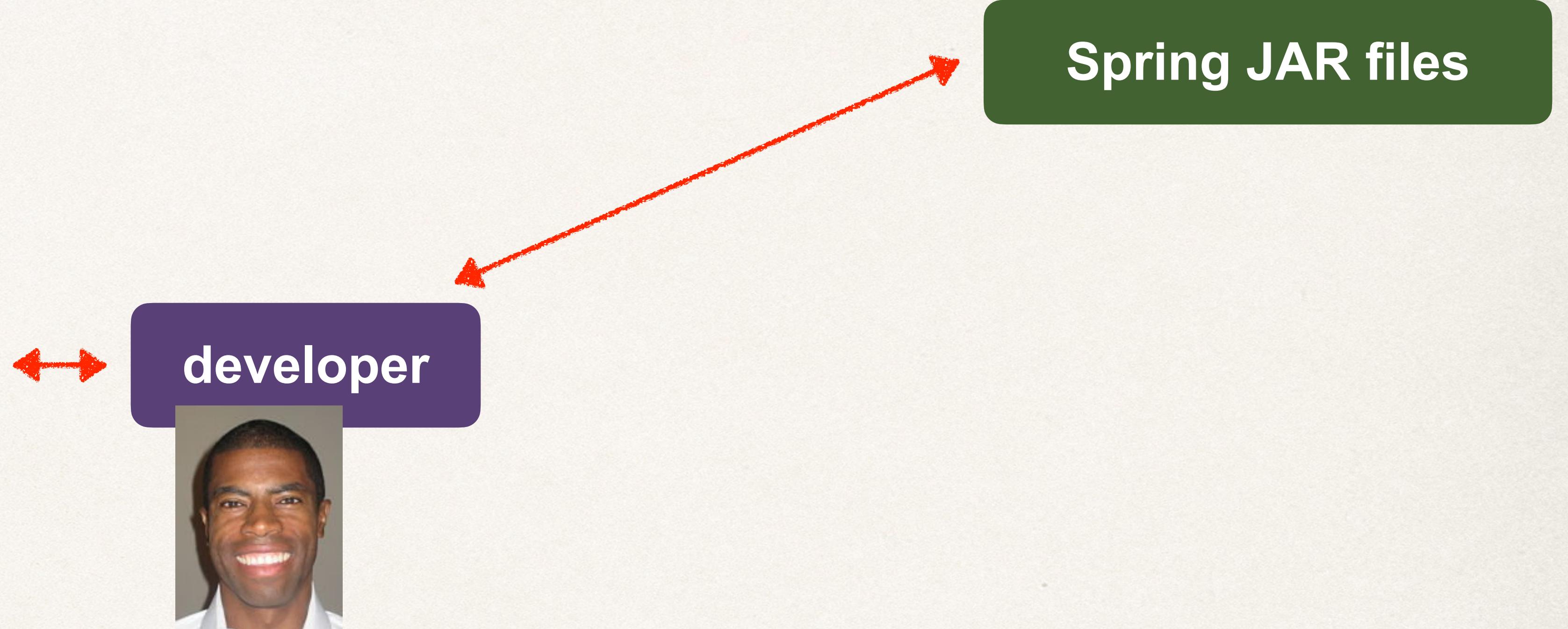
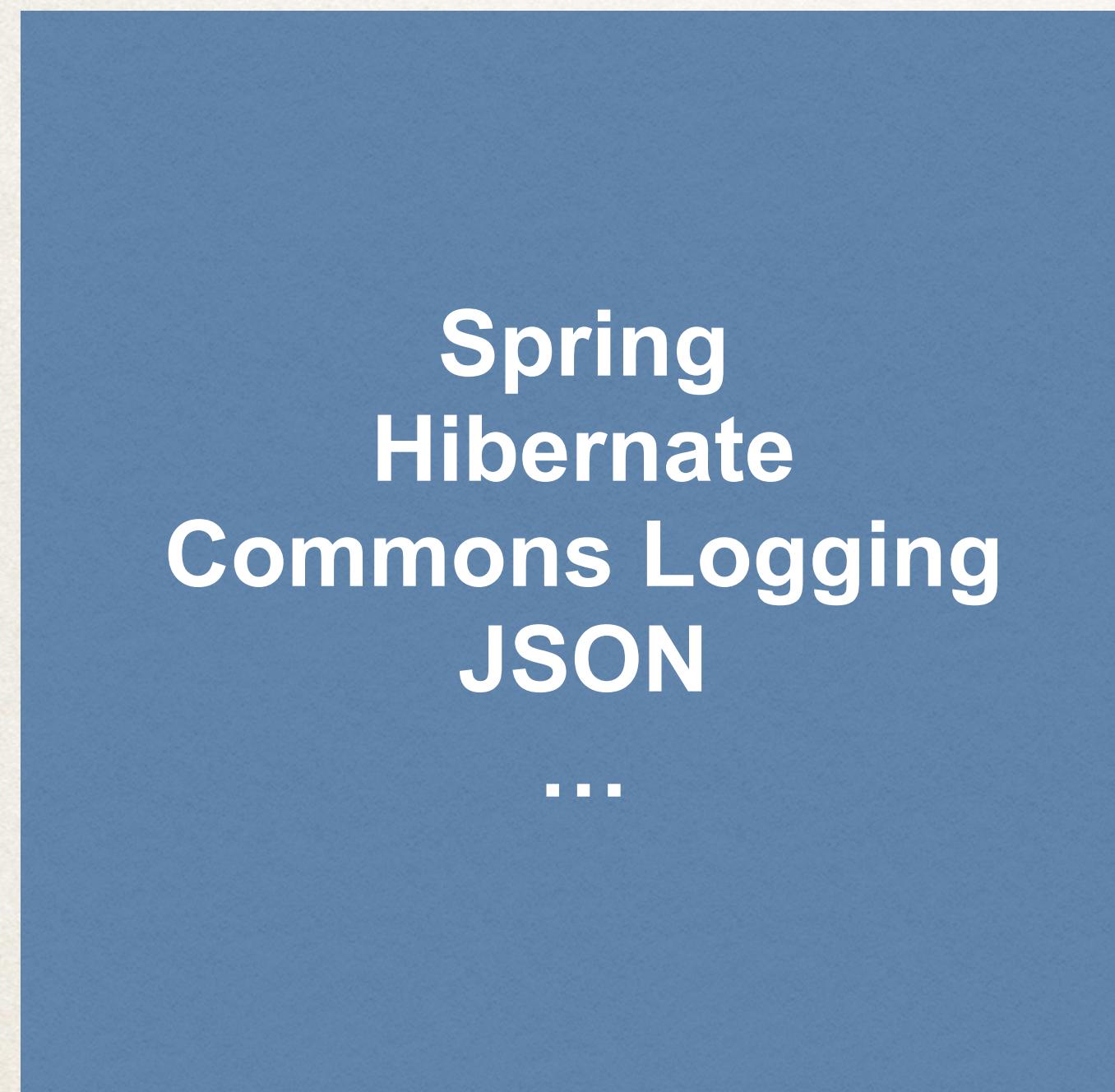


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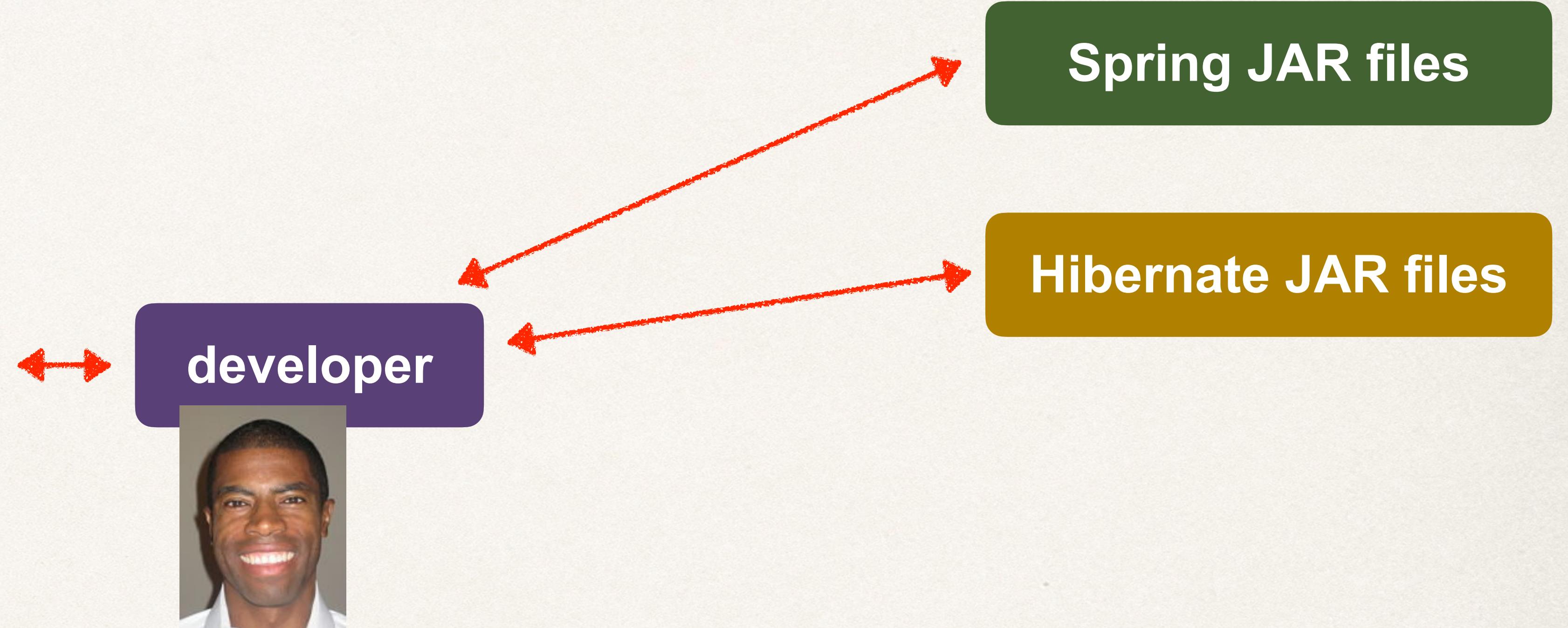
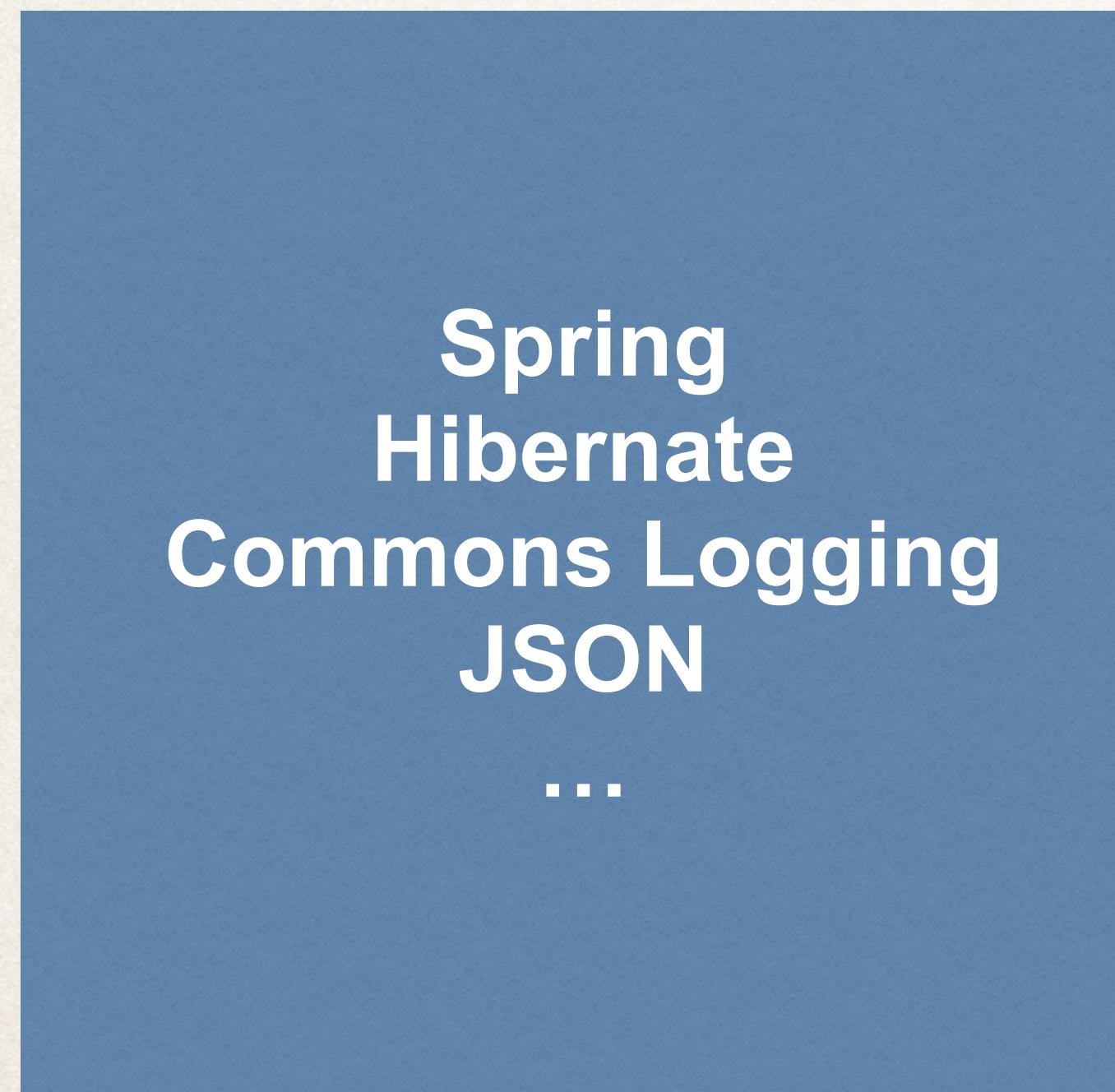
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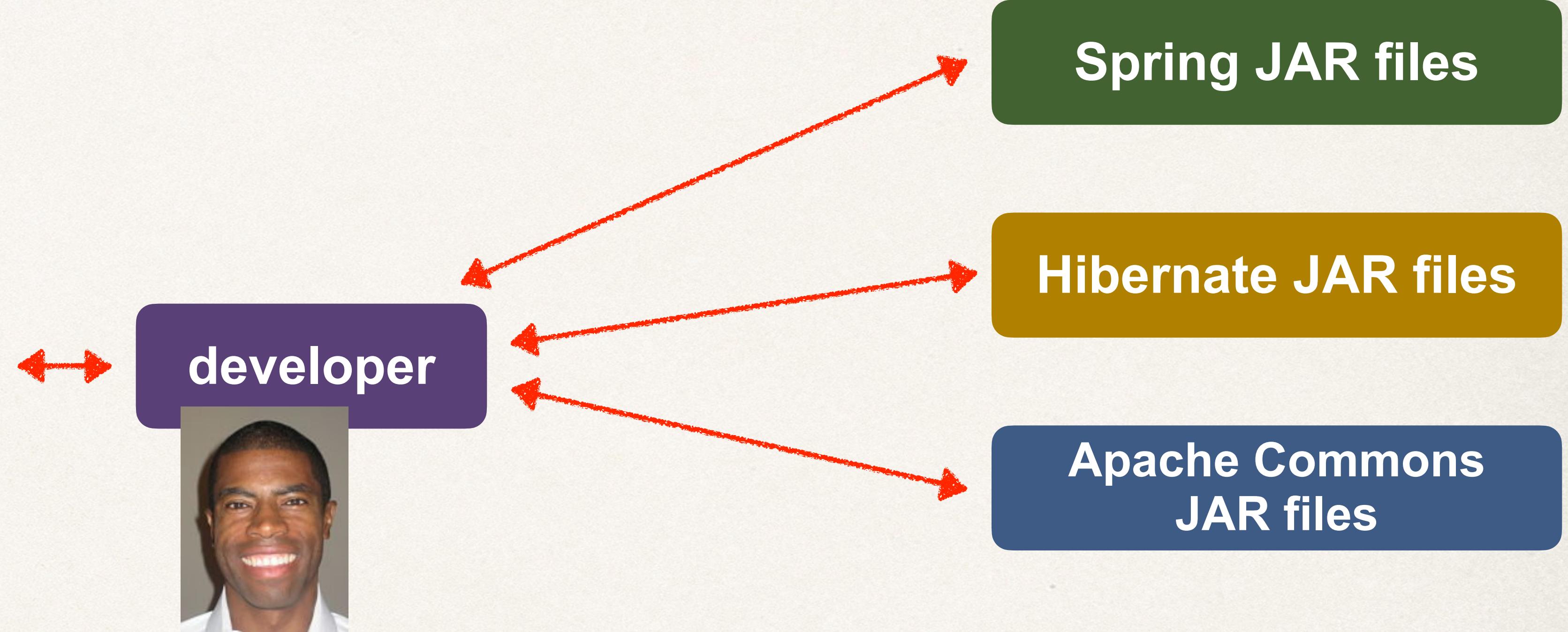
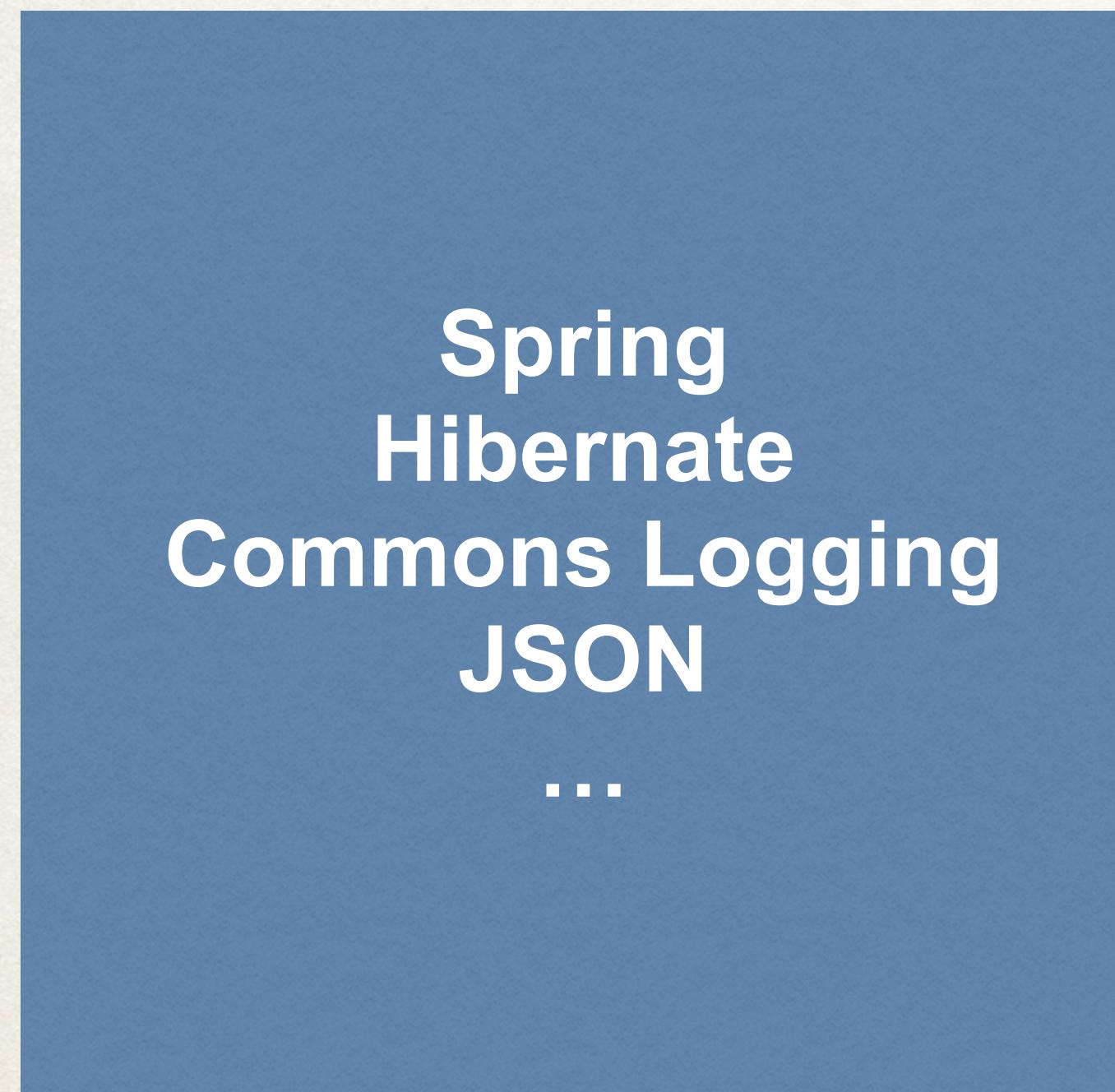
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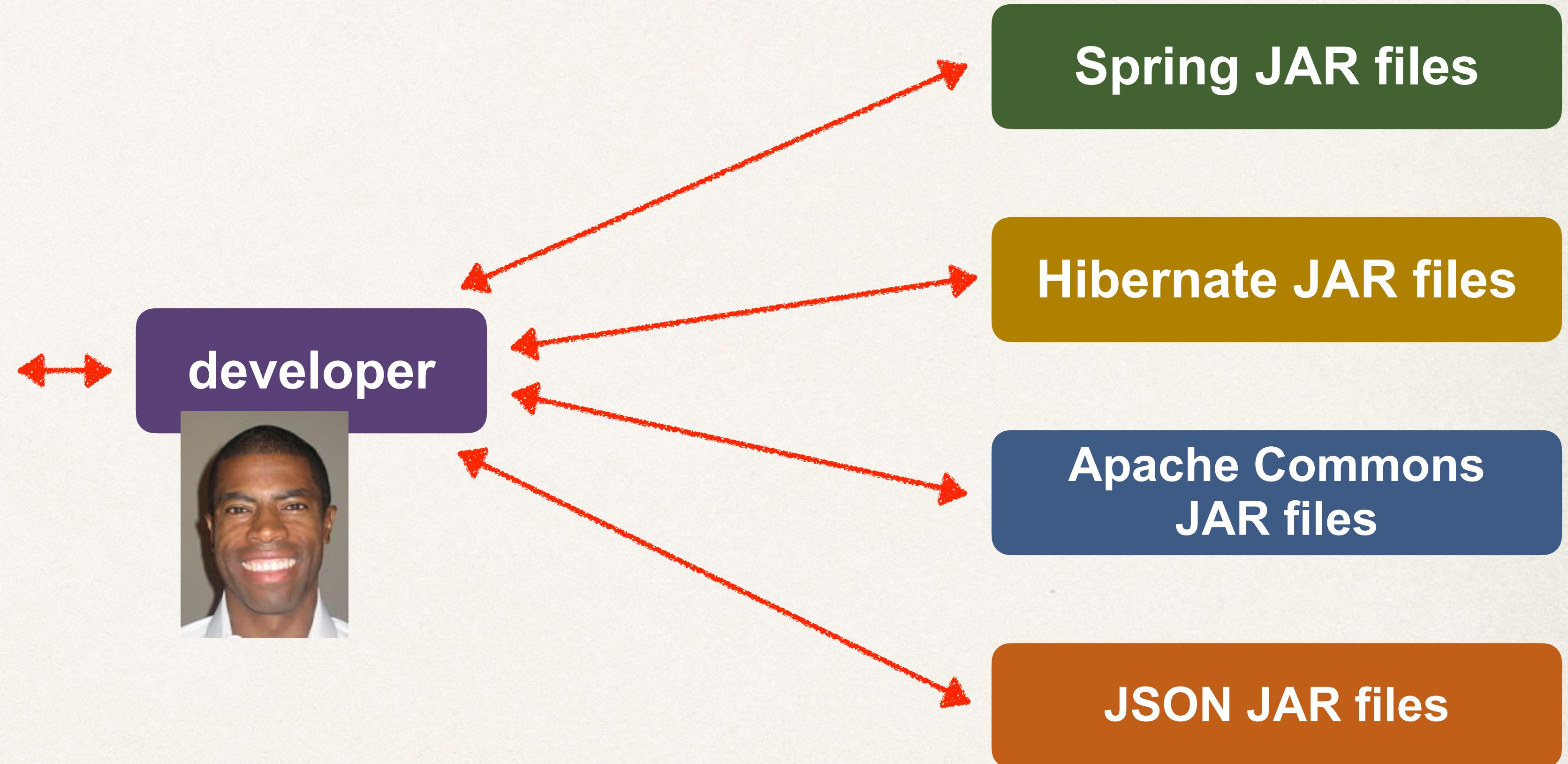
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- Think of Maven as your friendly helper / personal shopper :-)

My Project with Maven

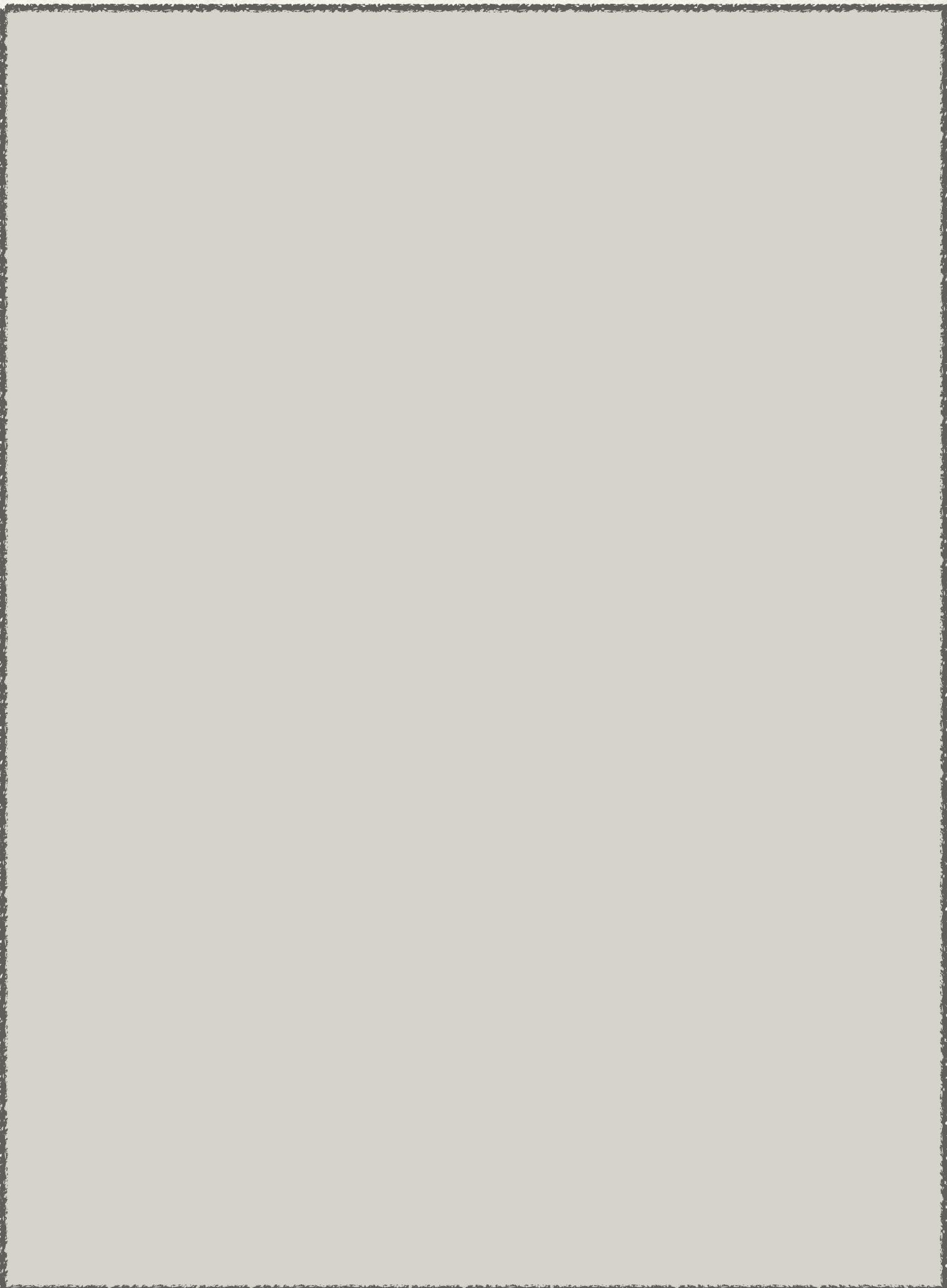
Maven Central Repository (remote)

My Project with Maven

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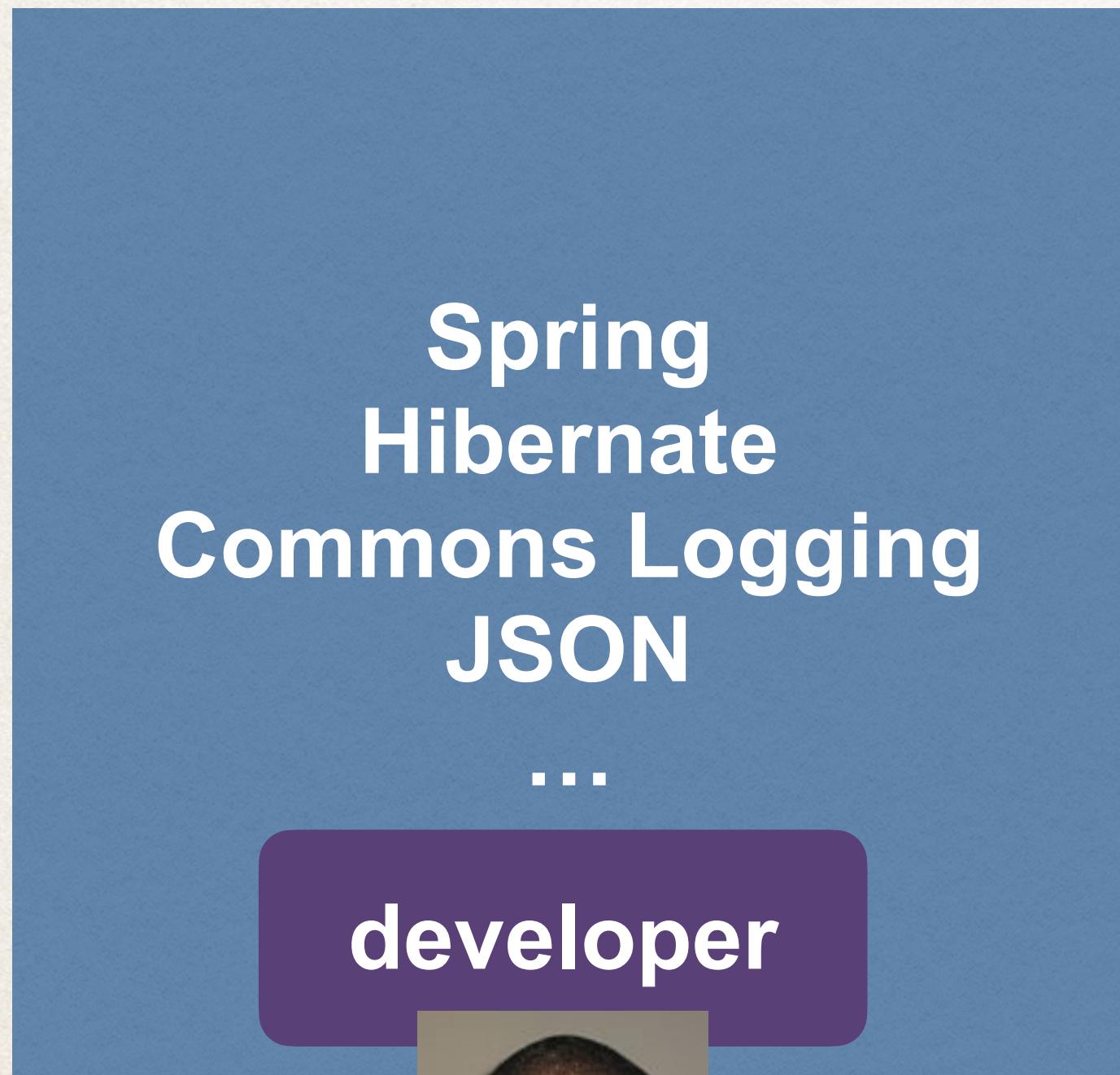


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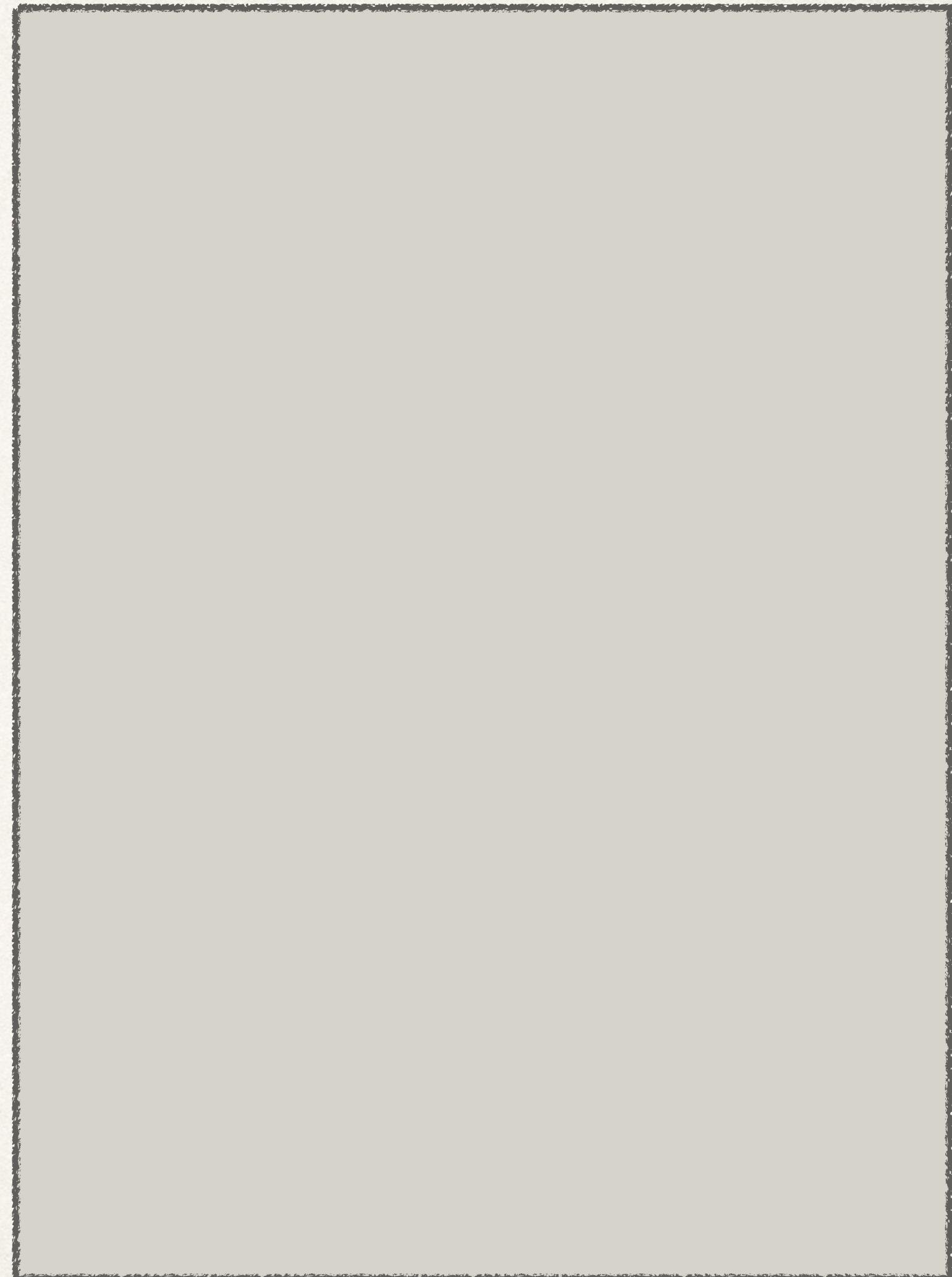


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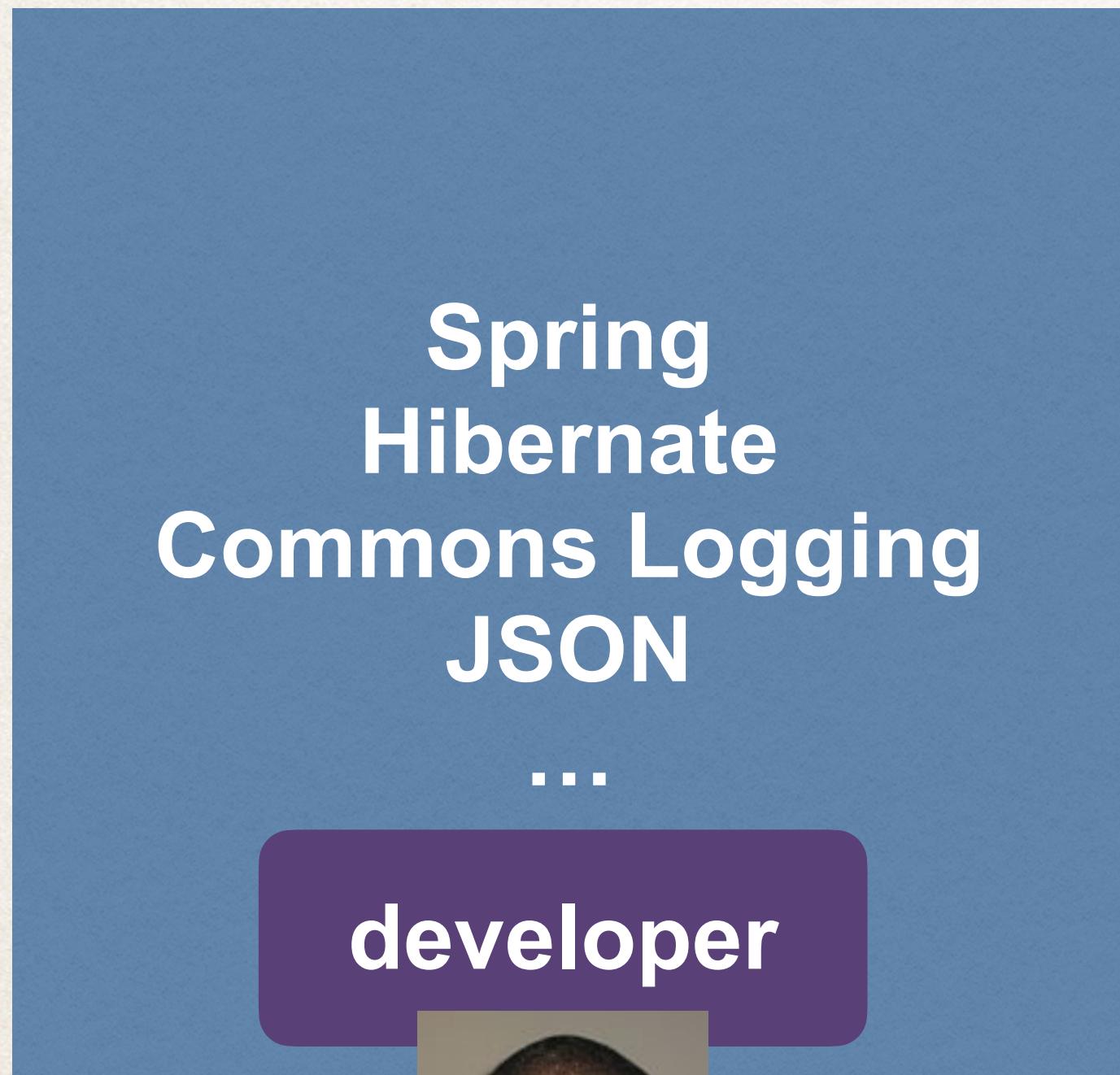


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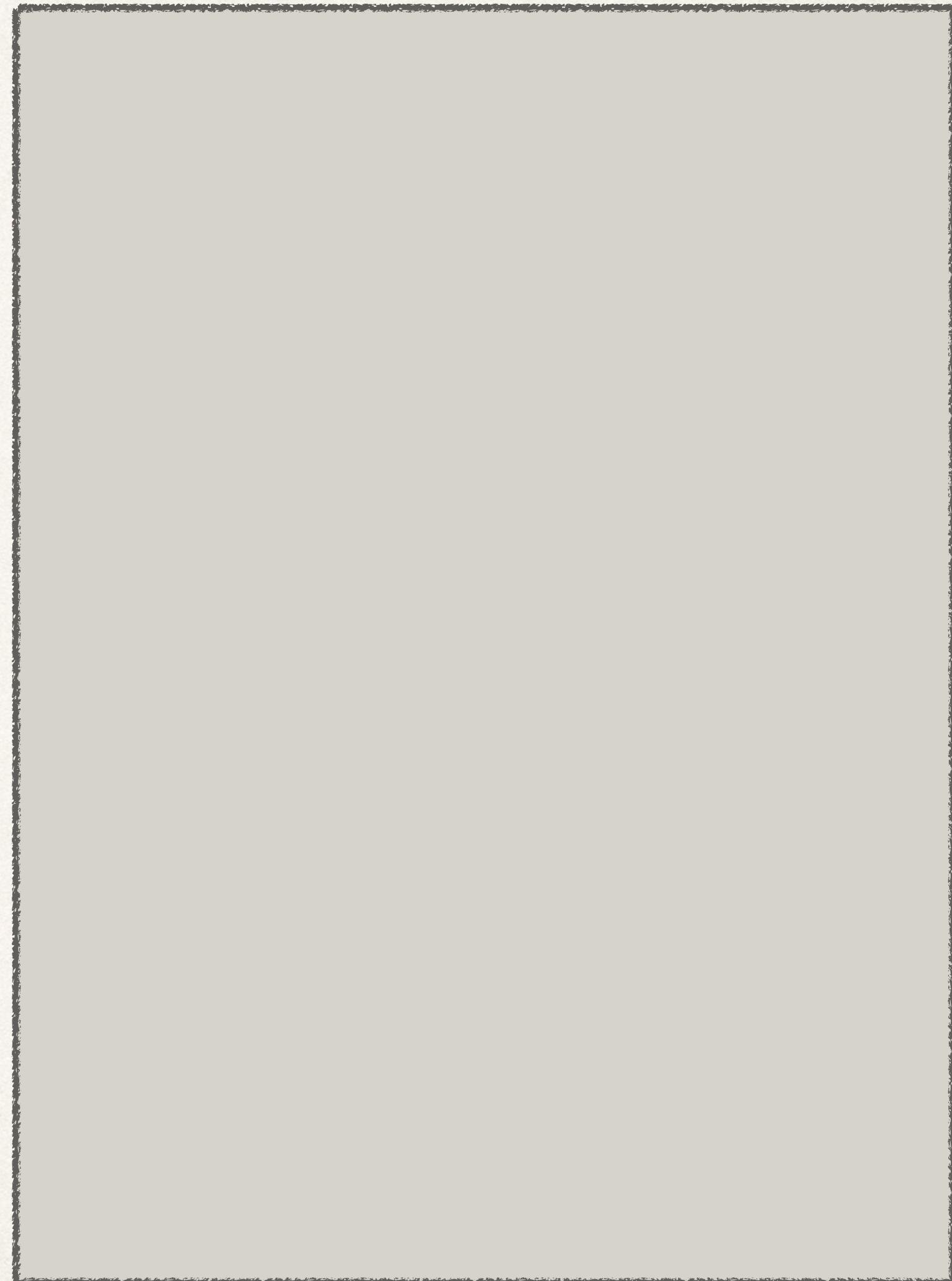
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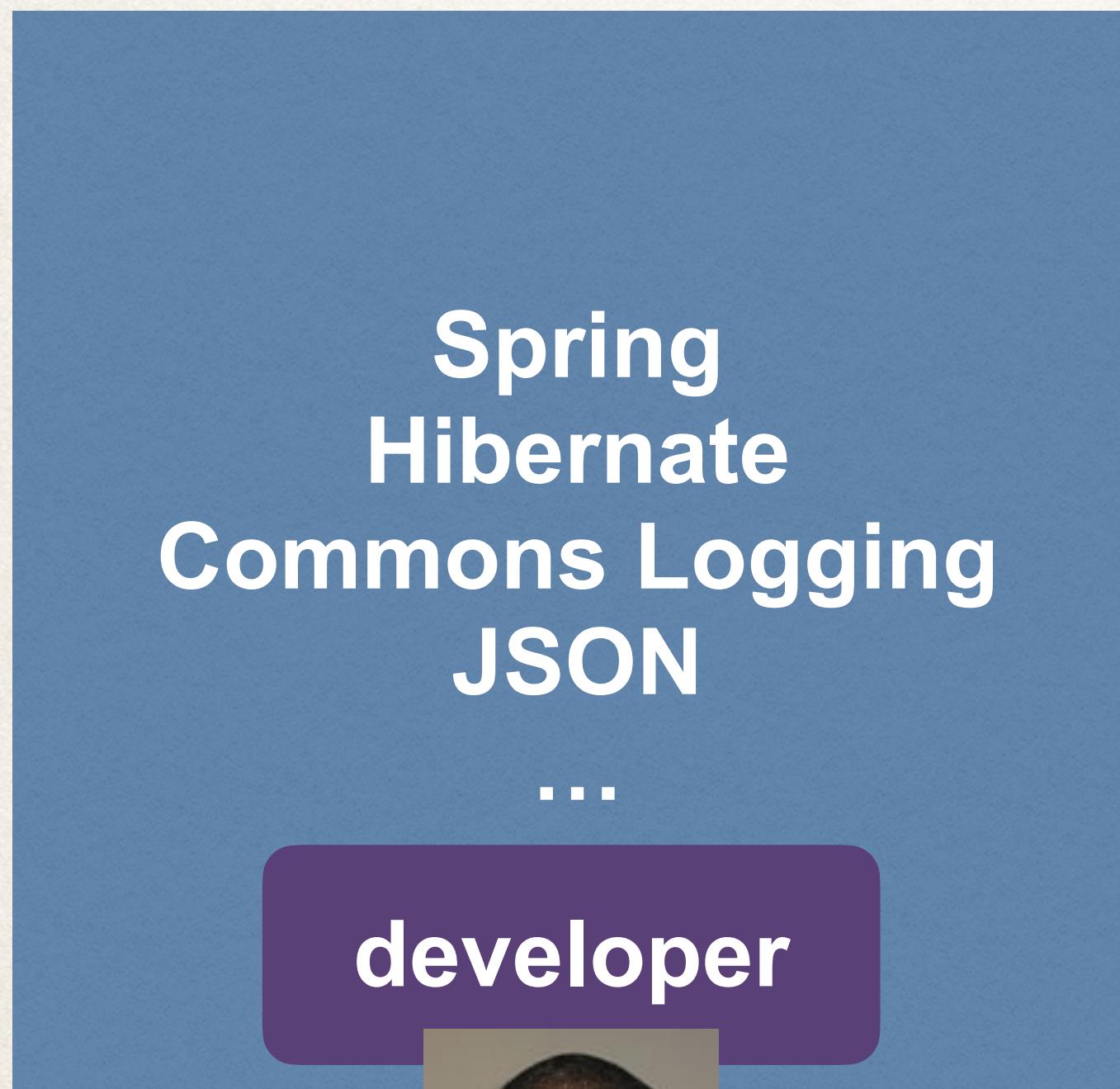
Maven

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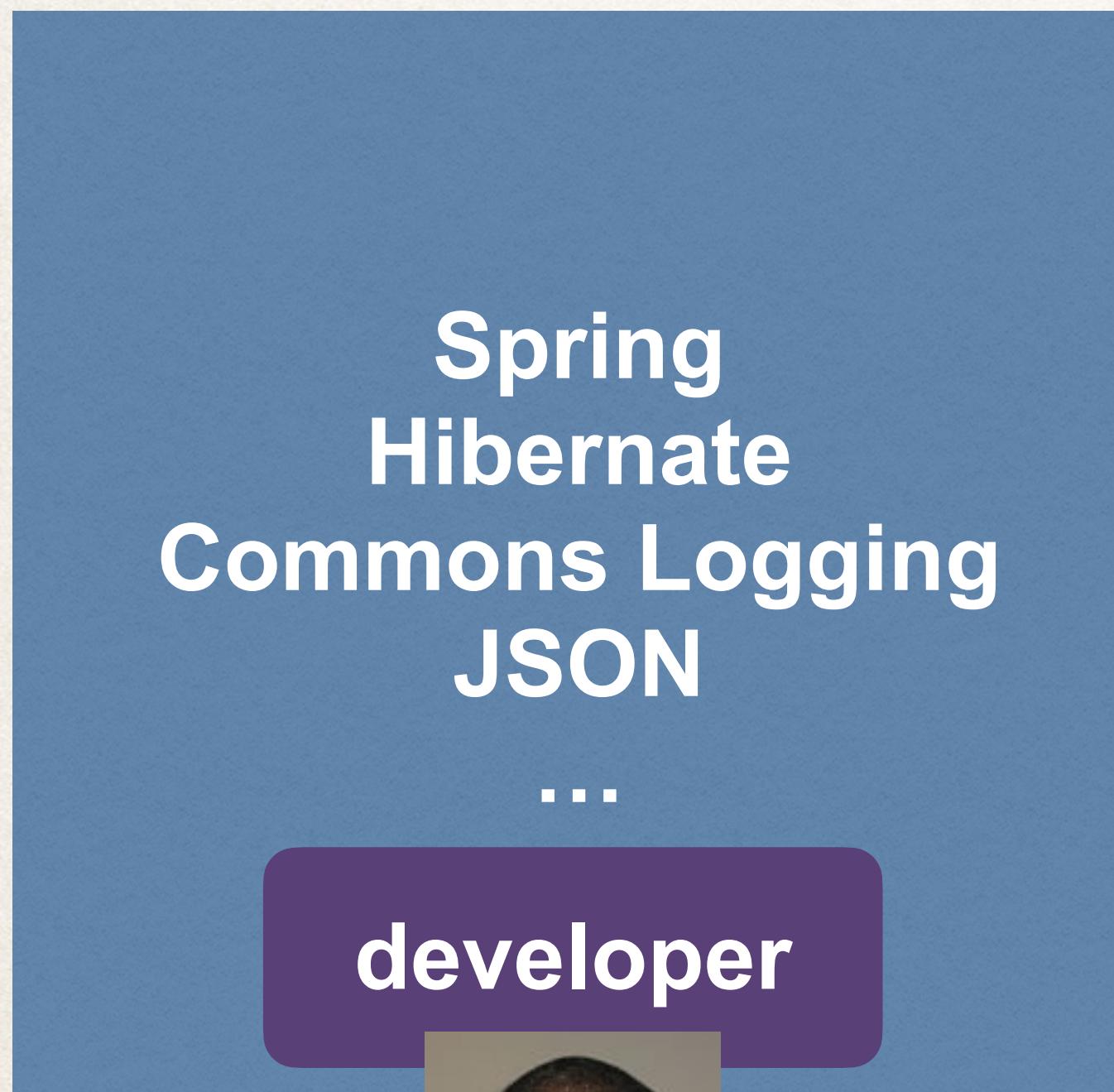
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Spring JAR files



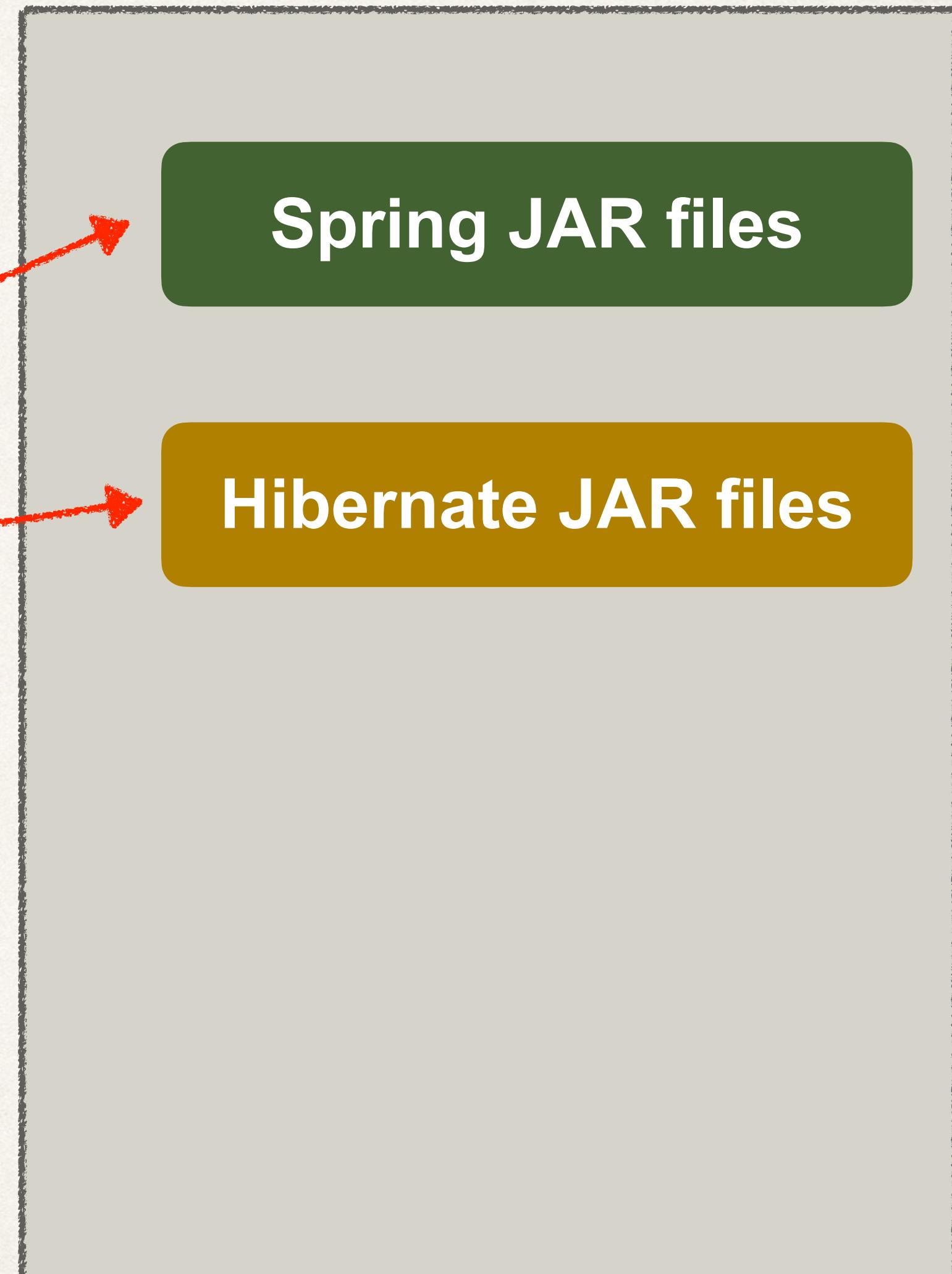
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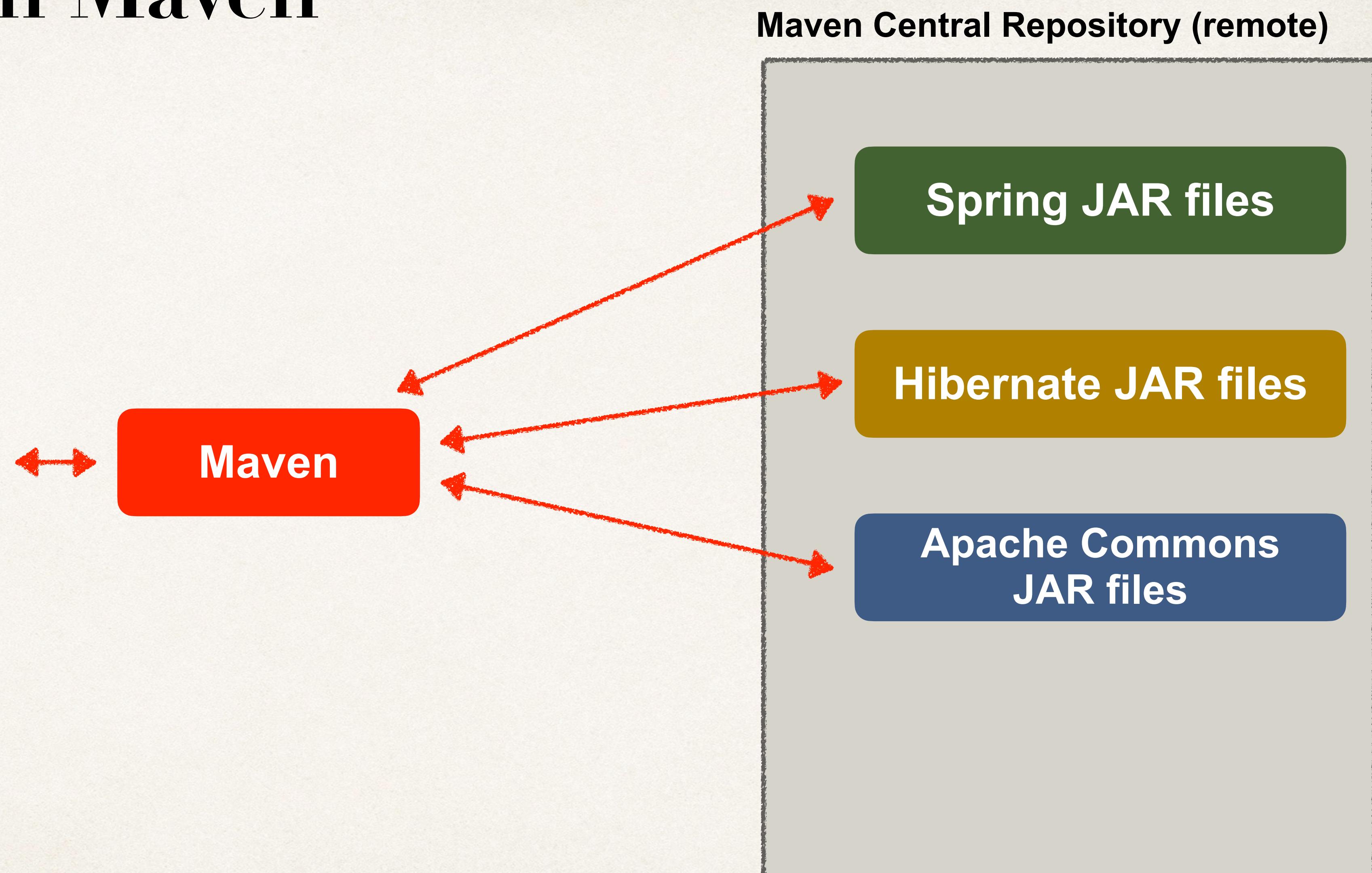
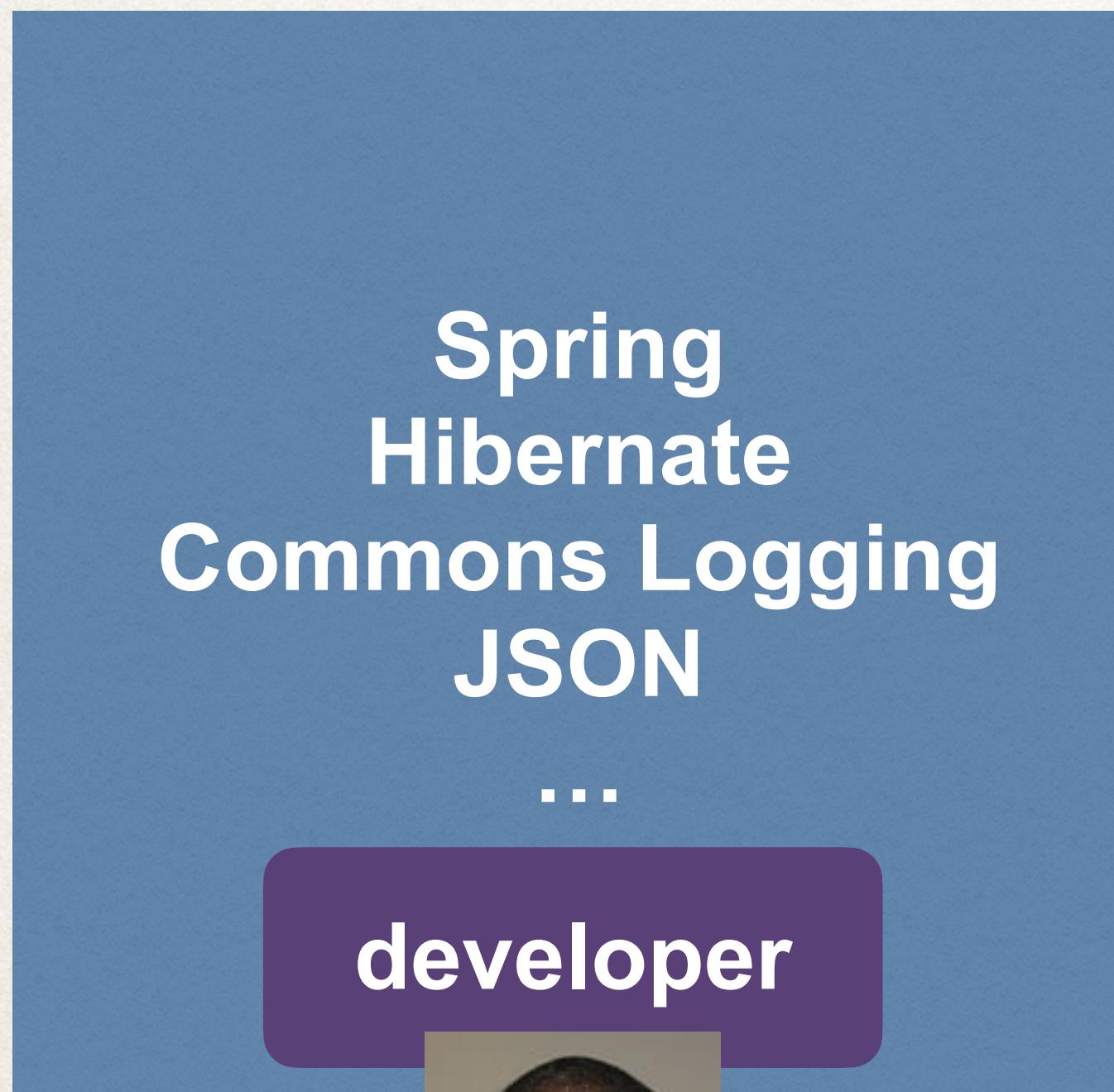
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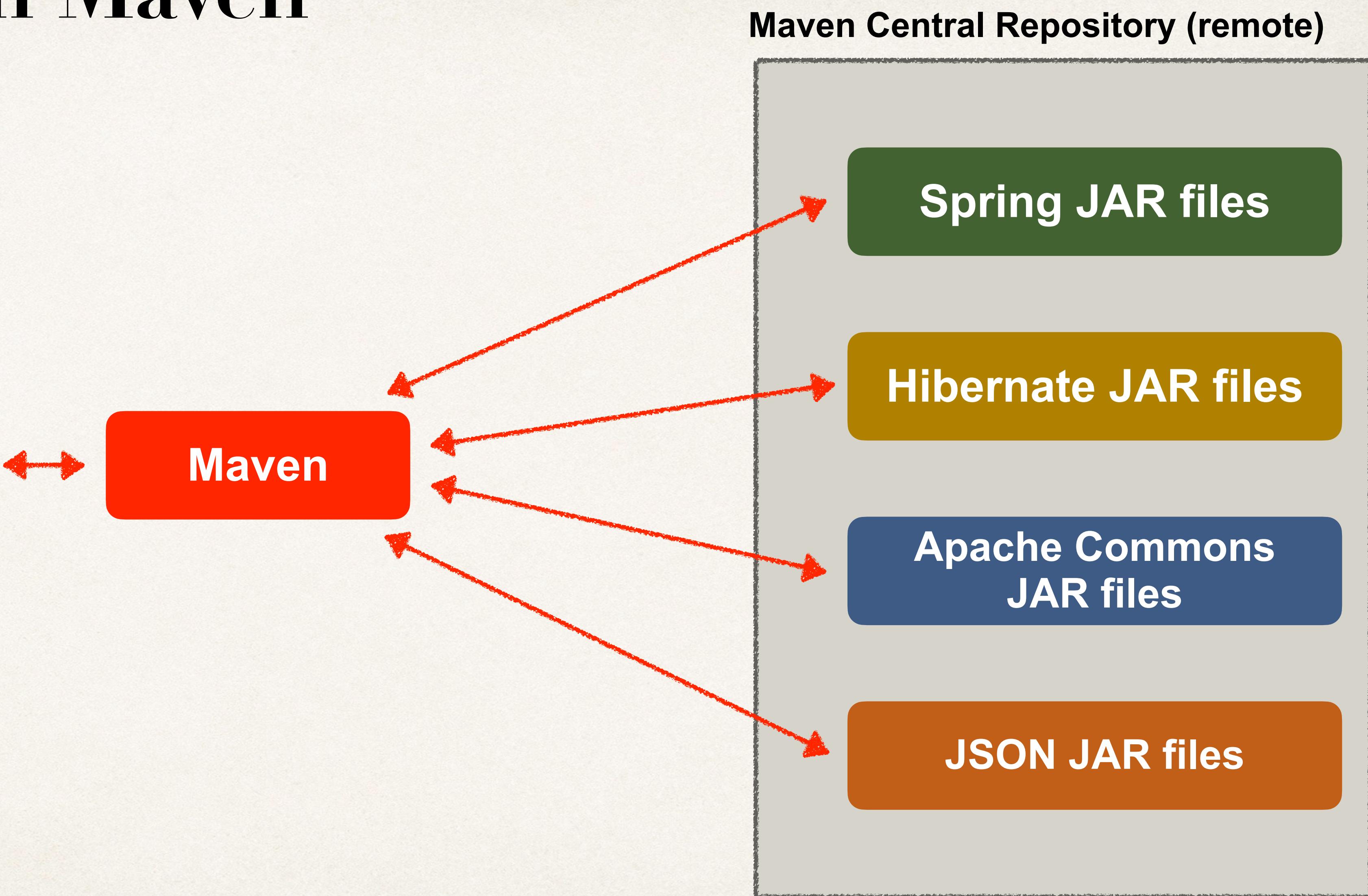
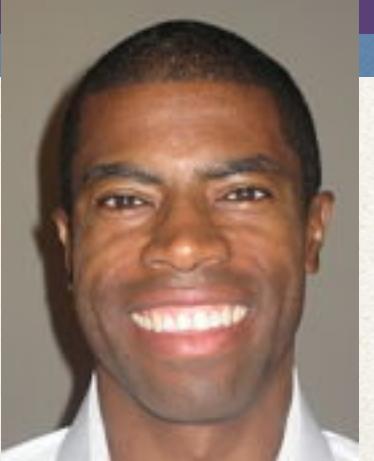
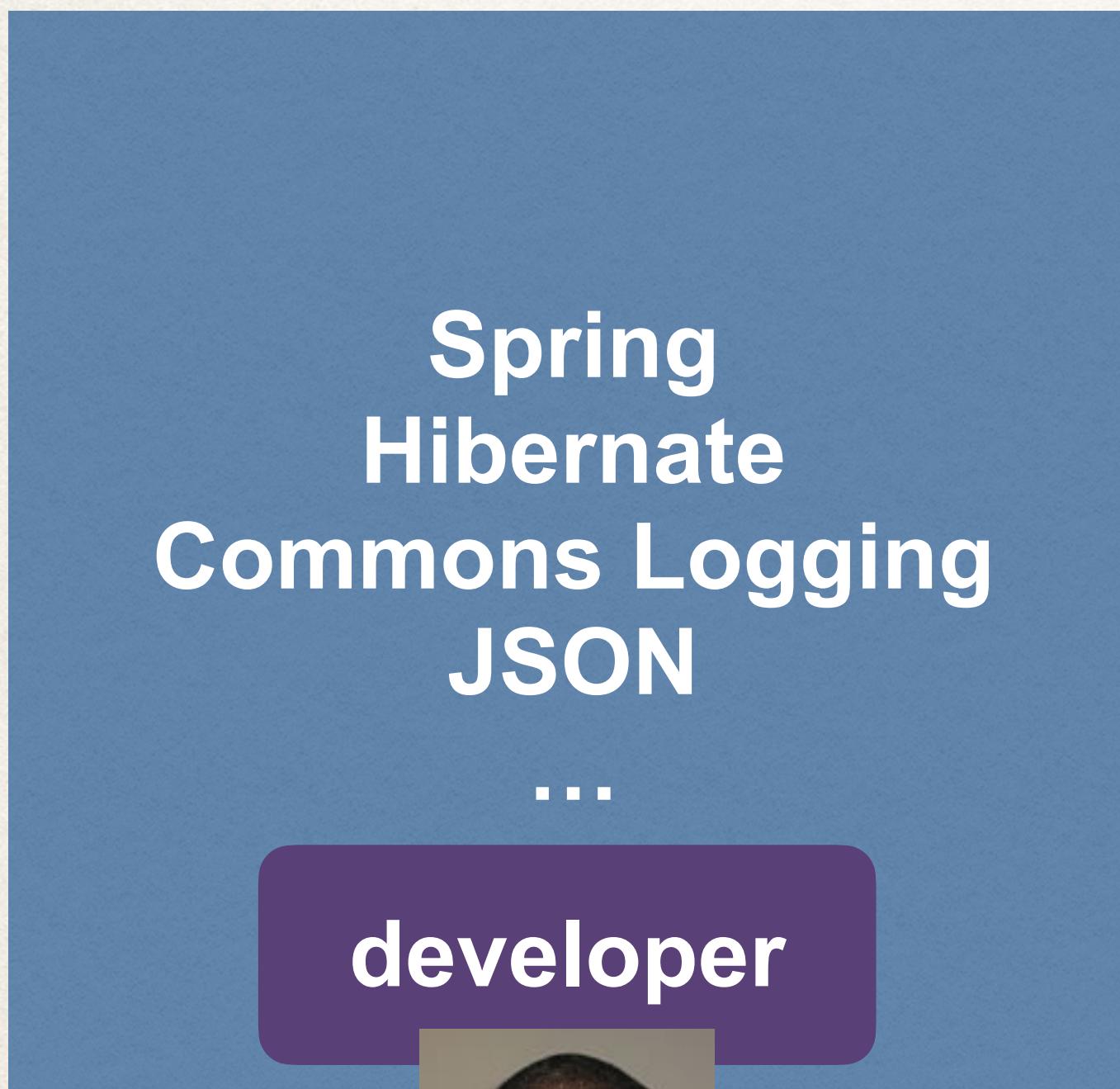
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Maven - How It Works

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Project Config file

Spring
Hibernate

Commons Logging

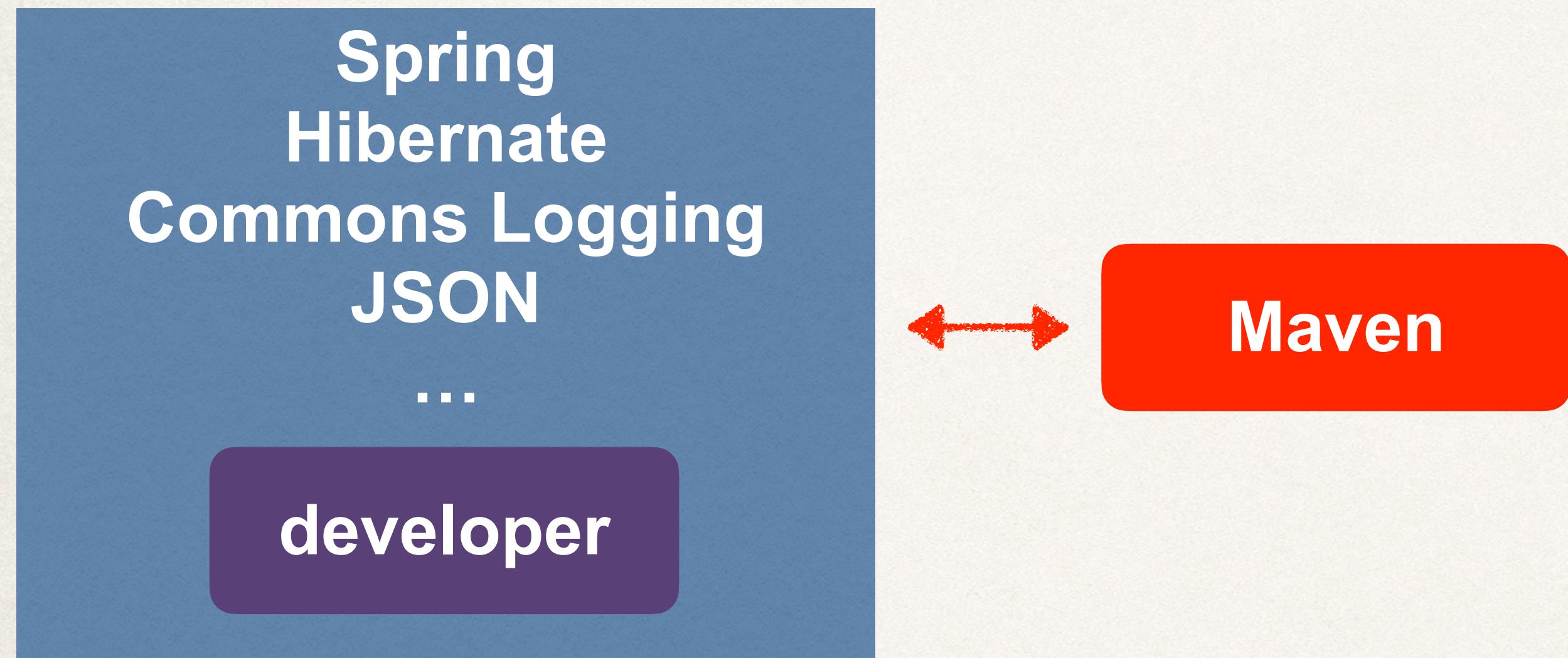
JSON

...

developer

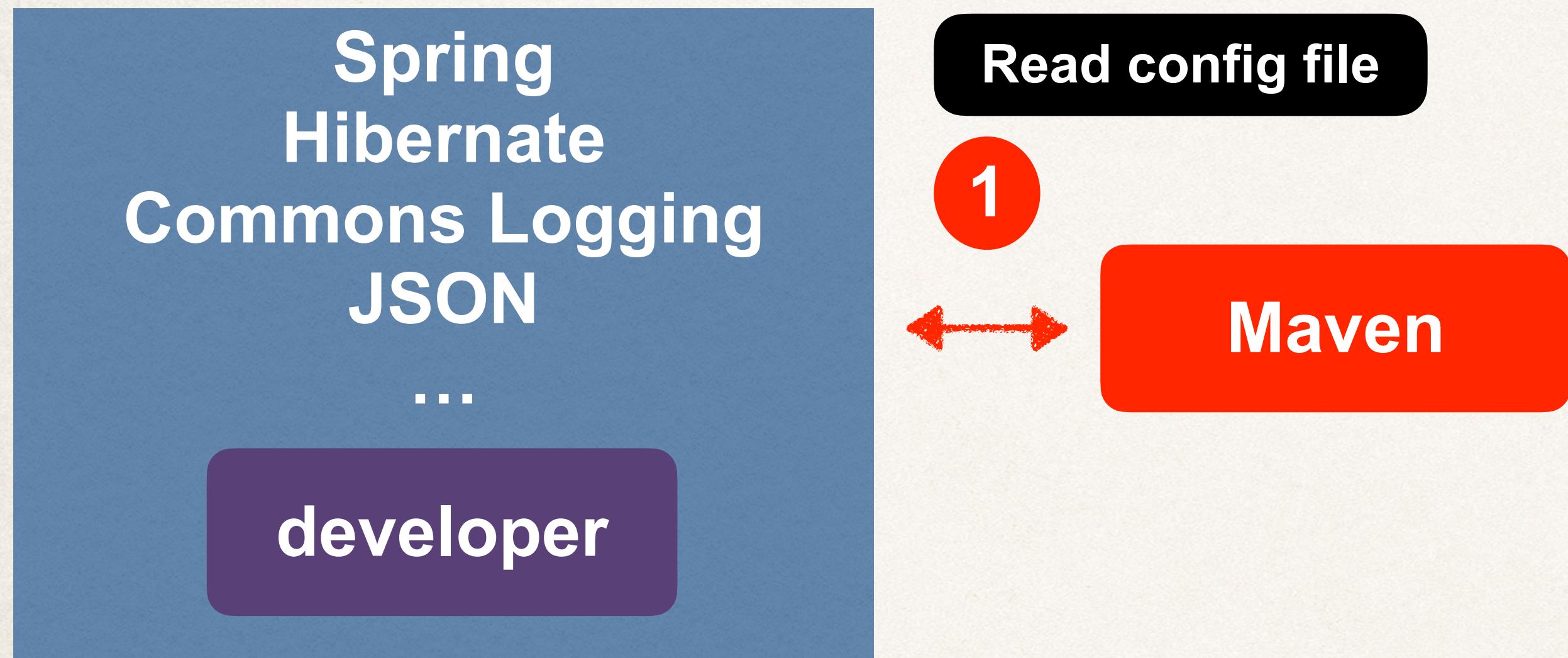
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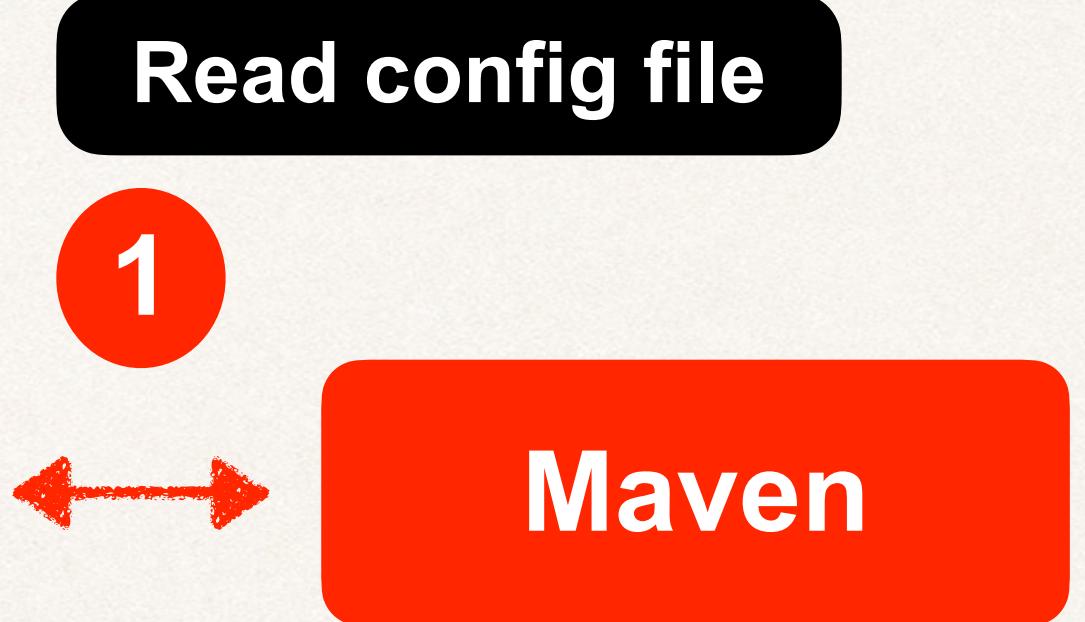
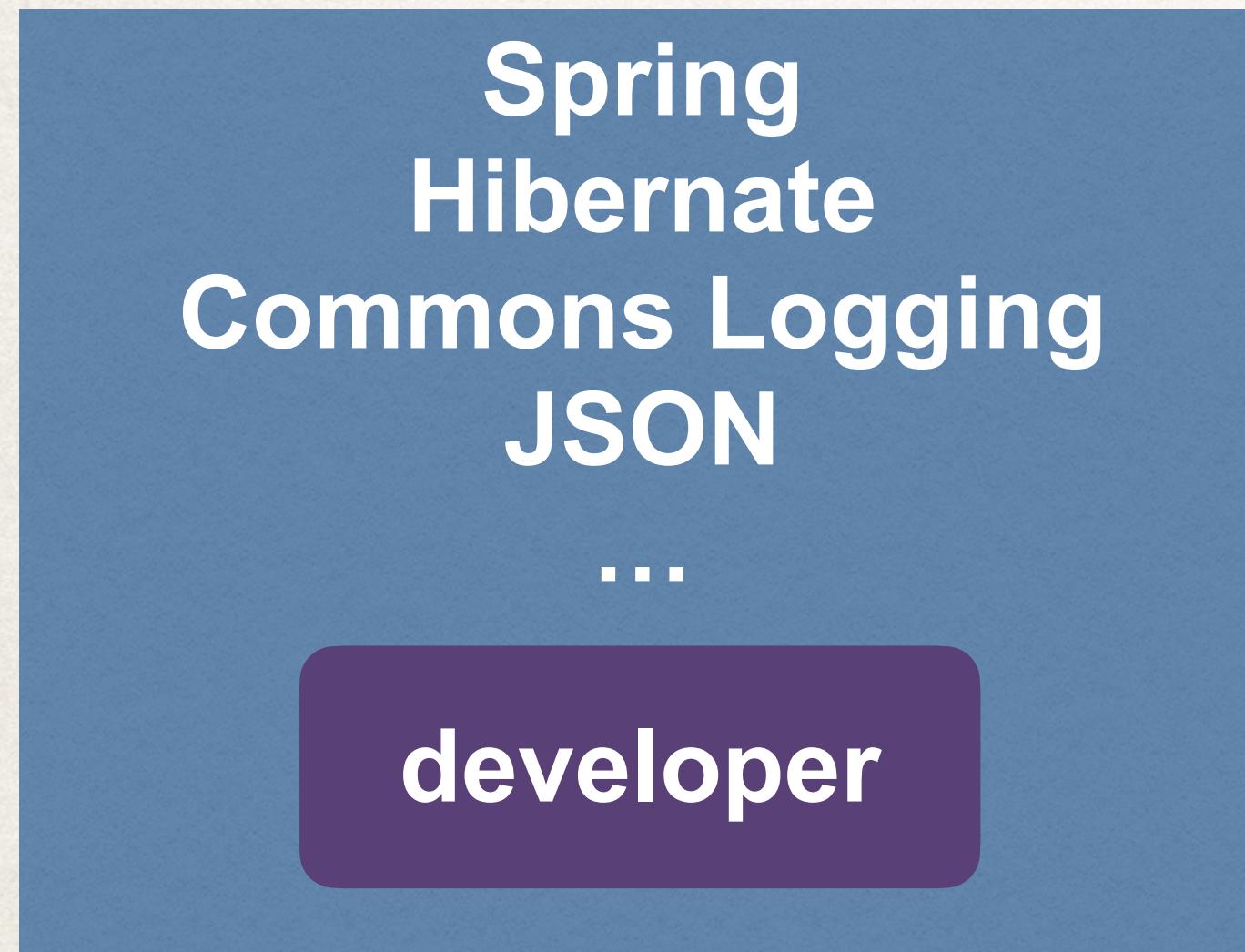
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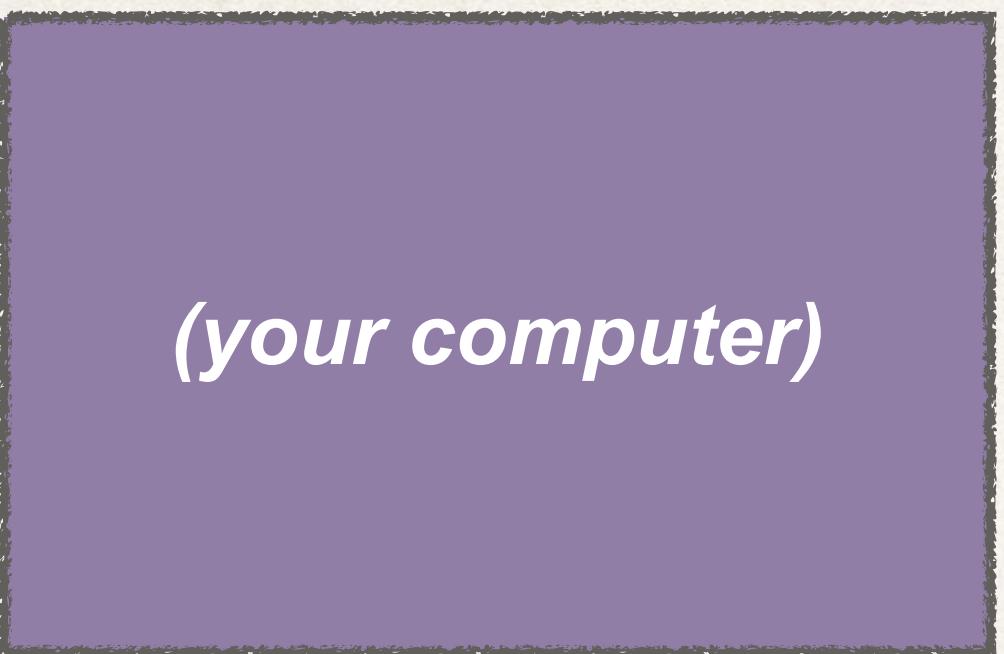


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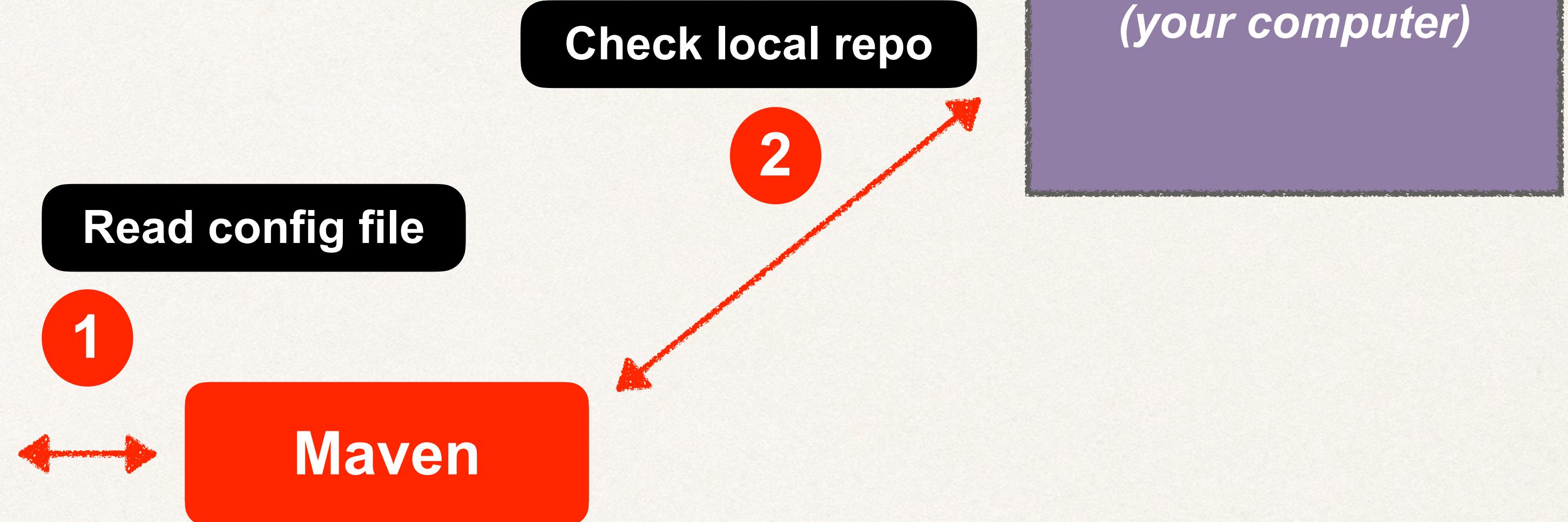
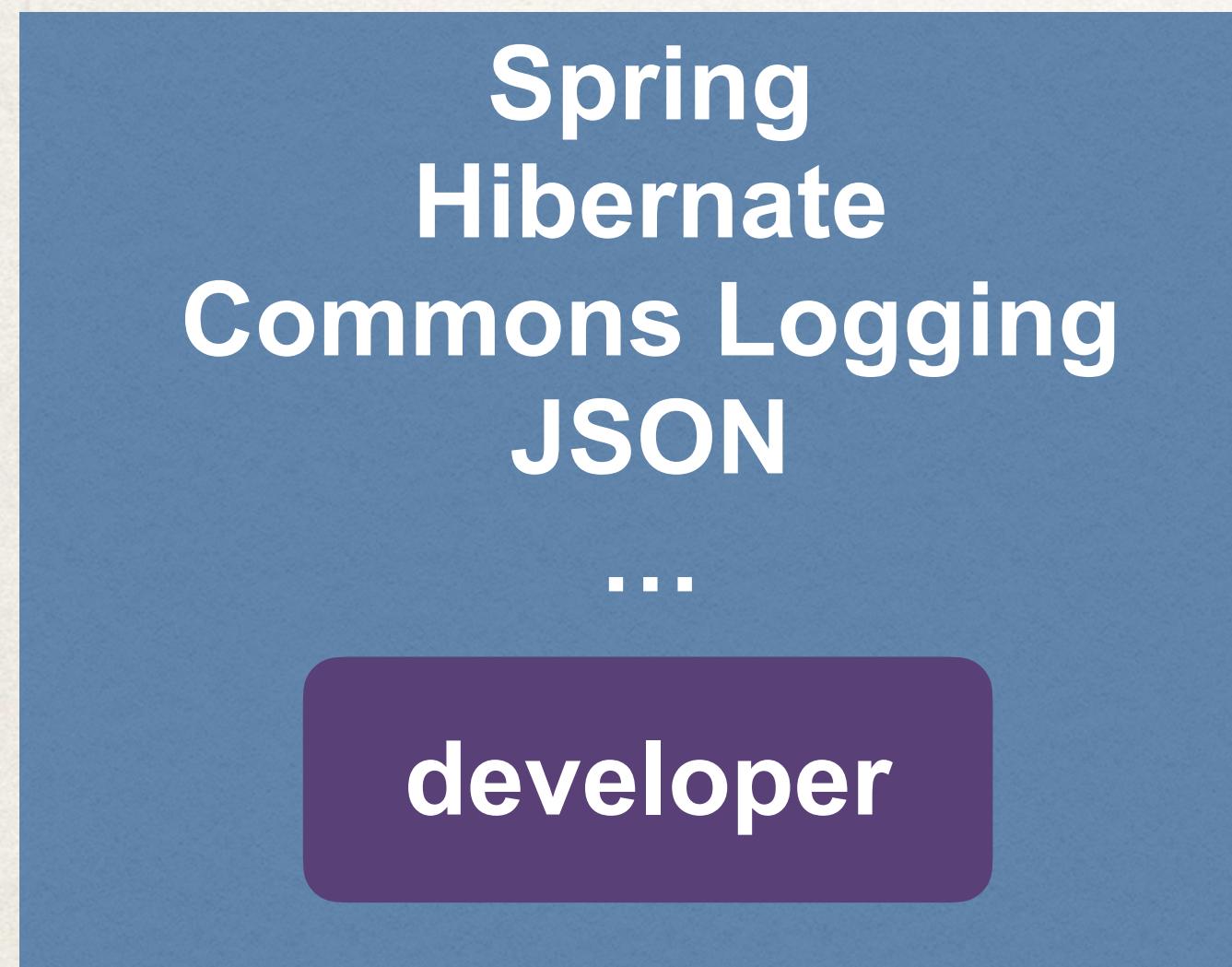


Maven Local Repository



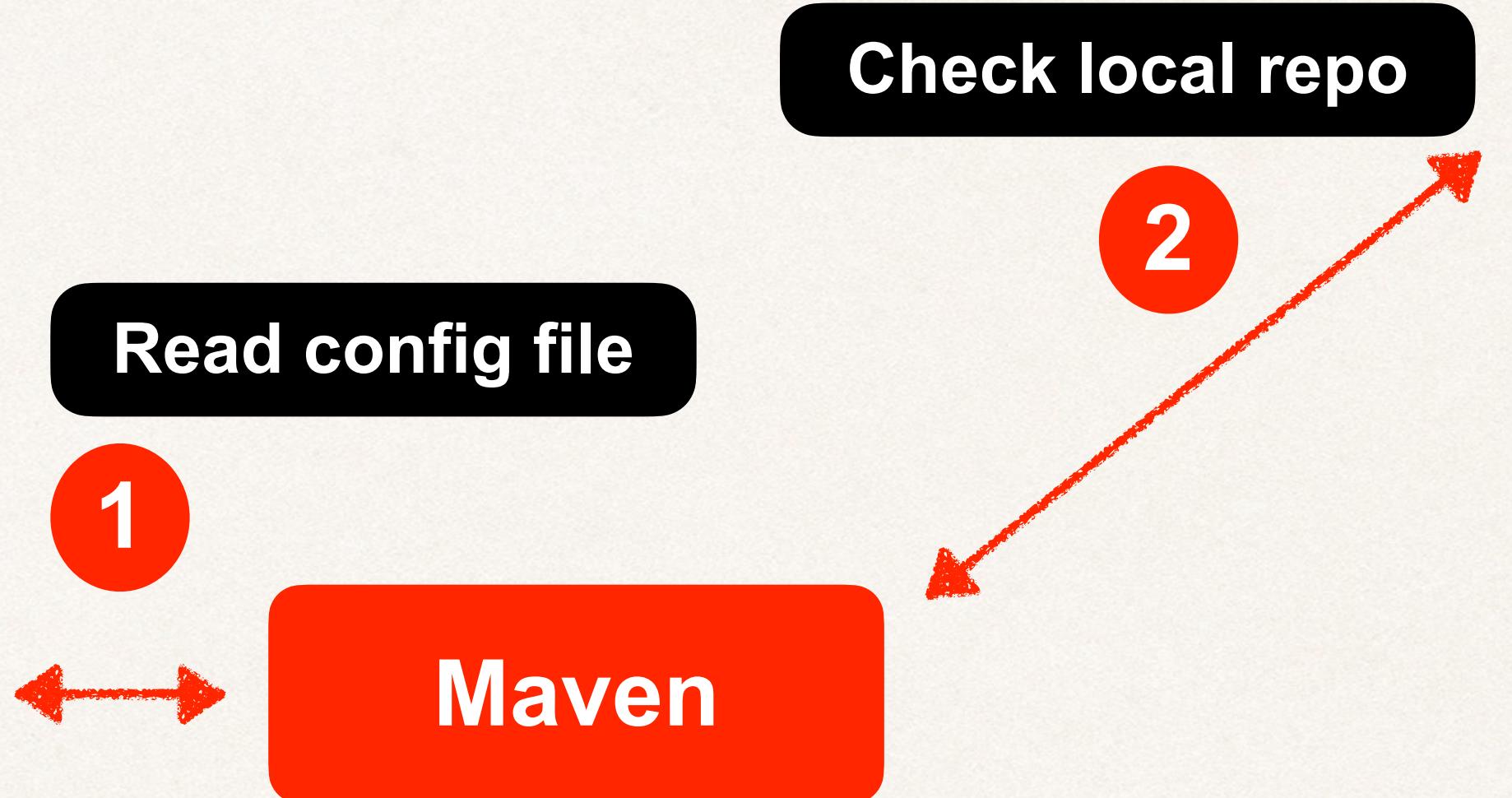
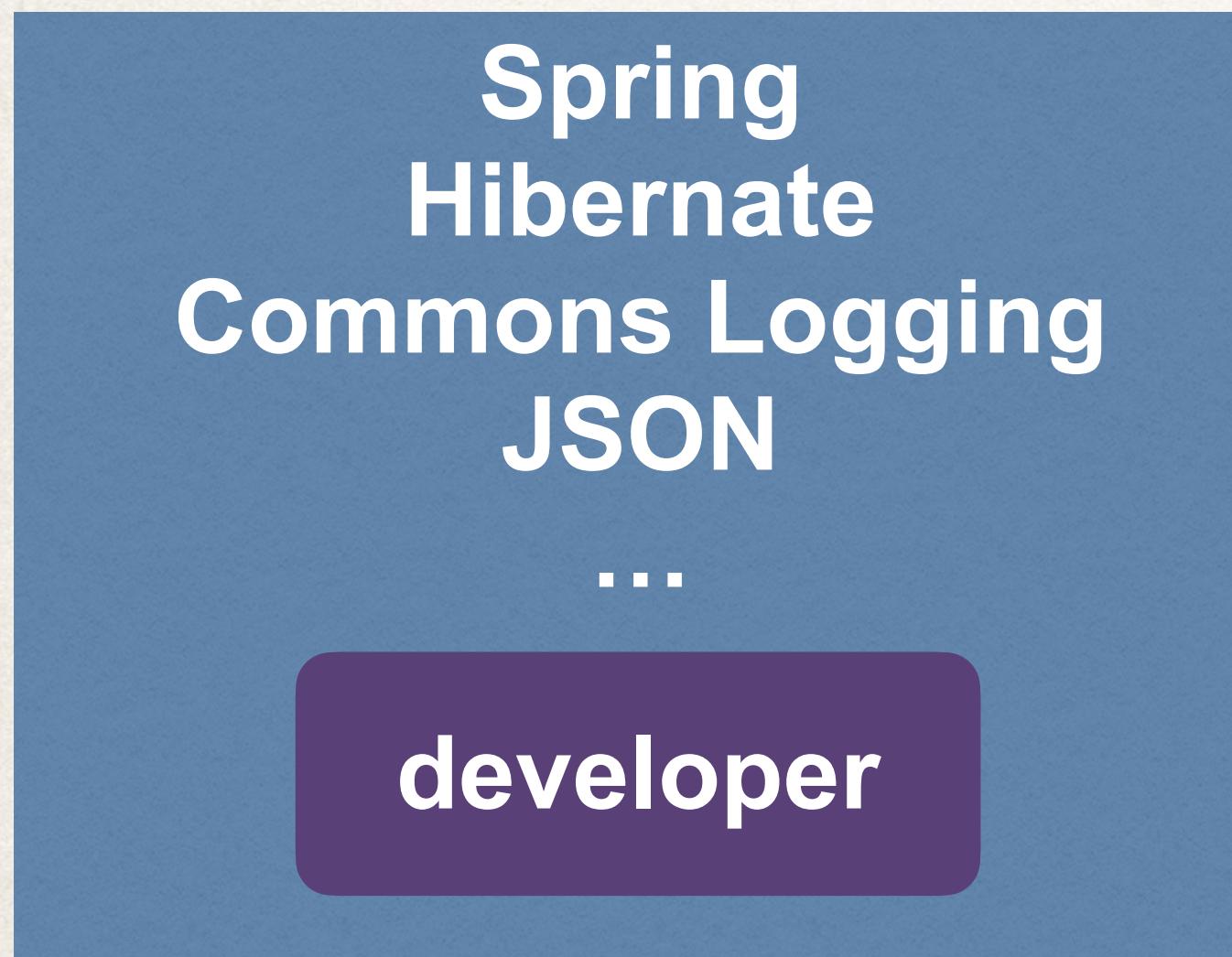
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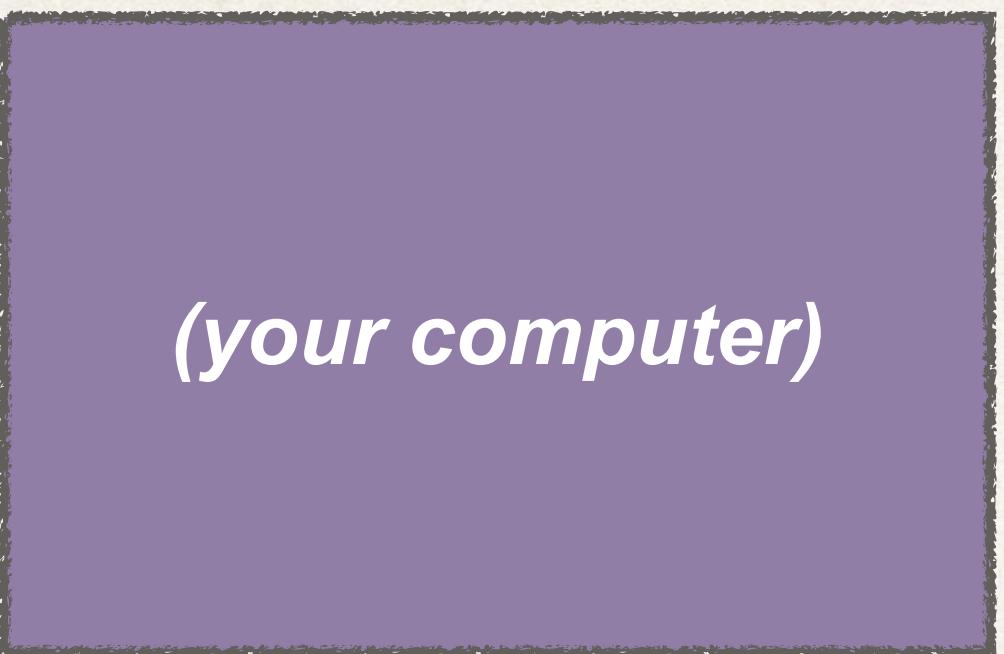


Maven - How It Works

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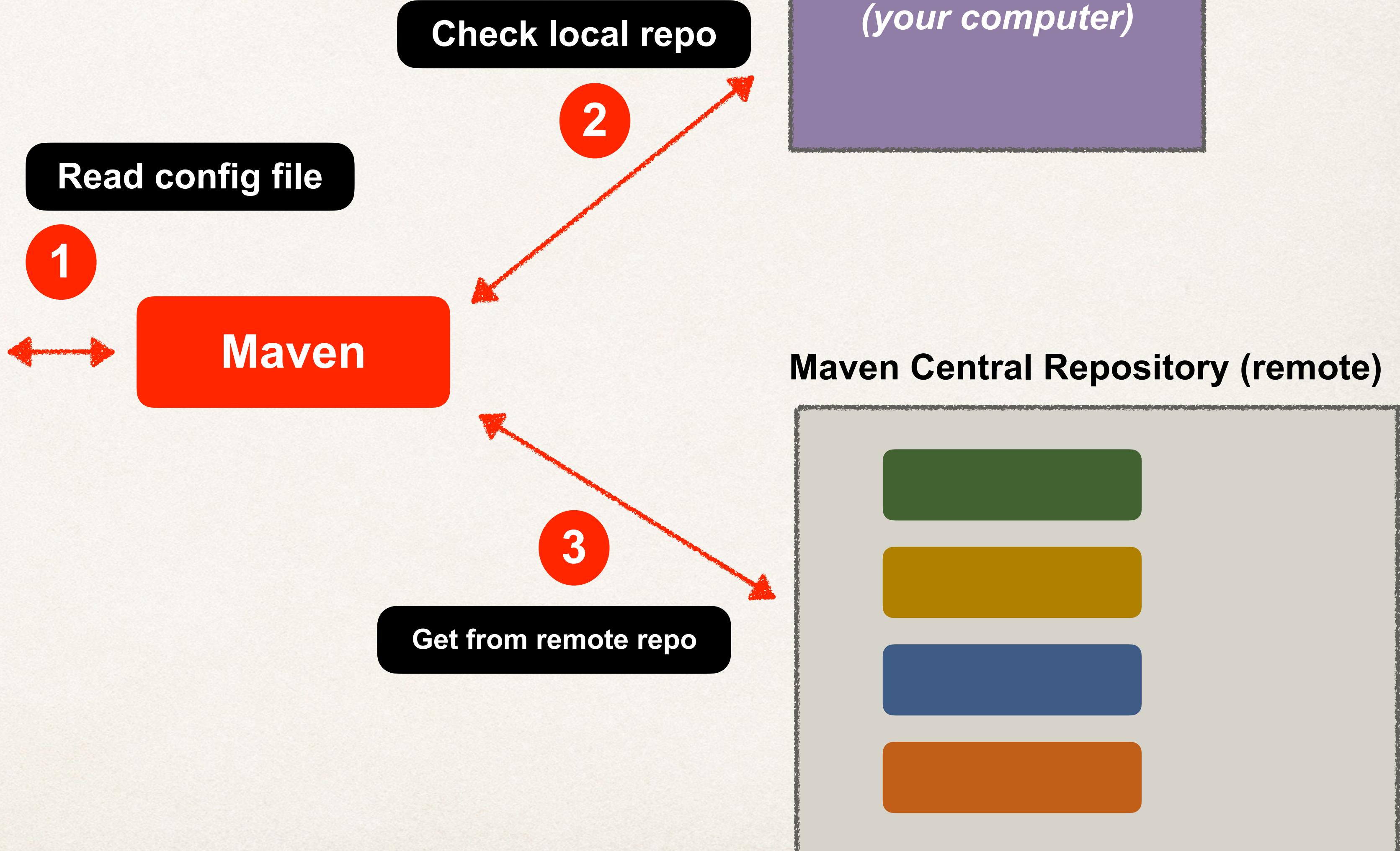
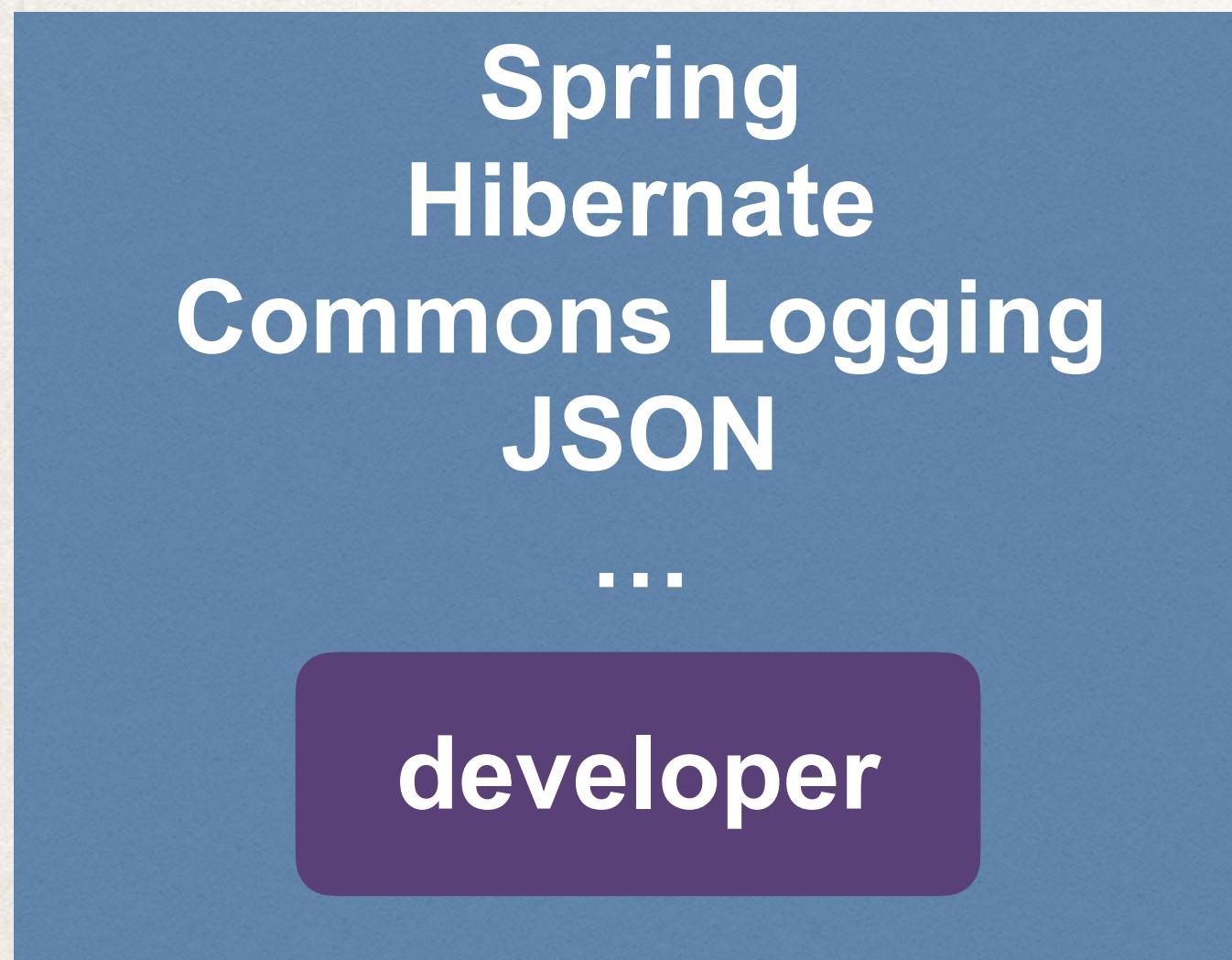


Maven Central Repository (remote)



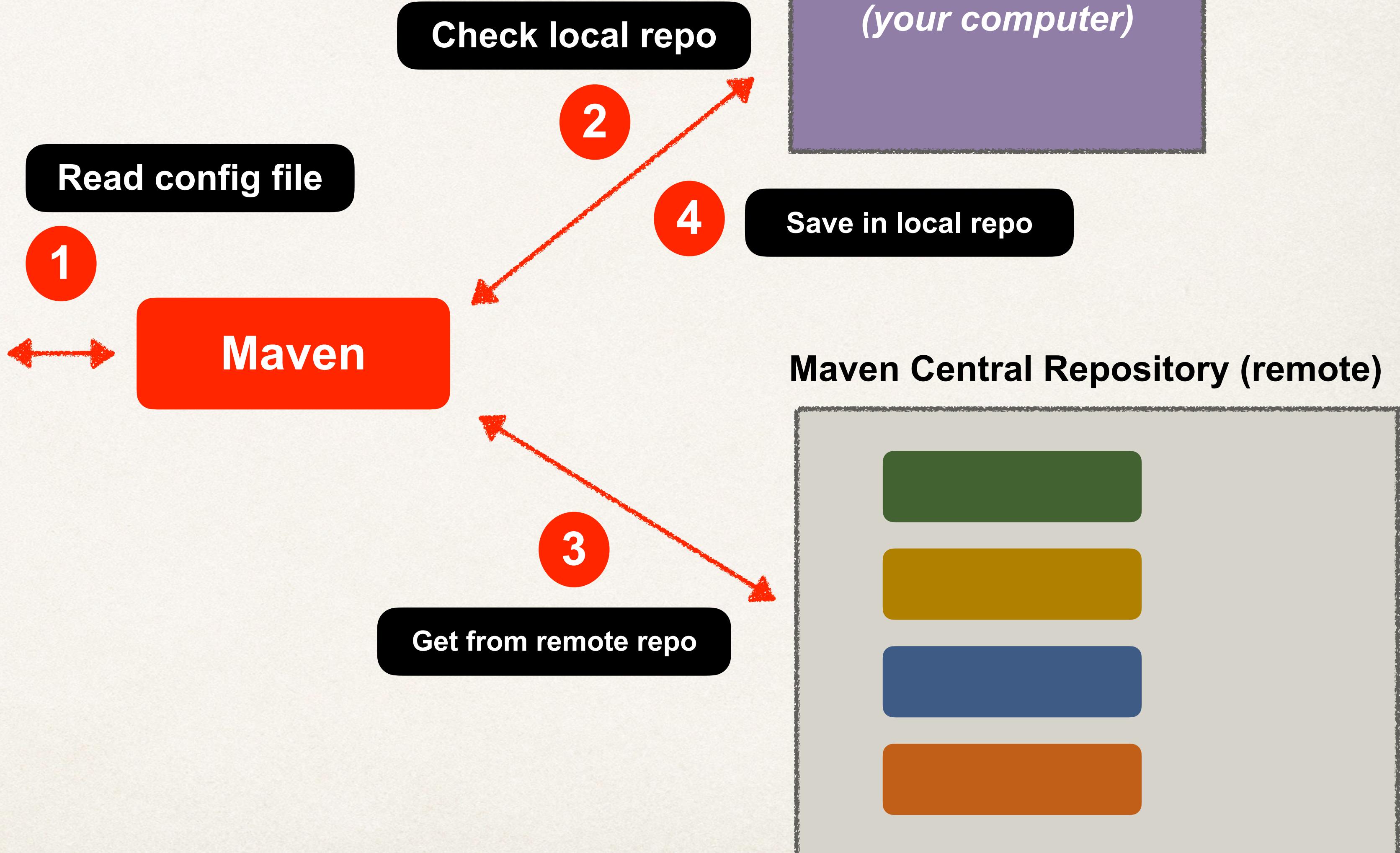
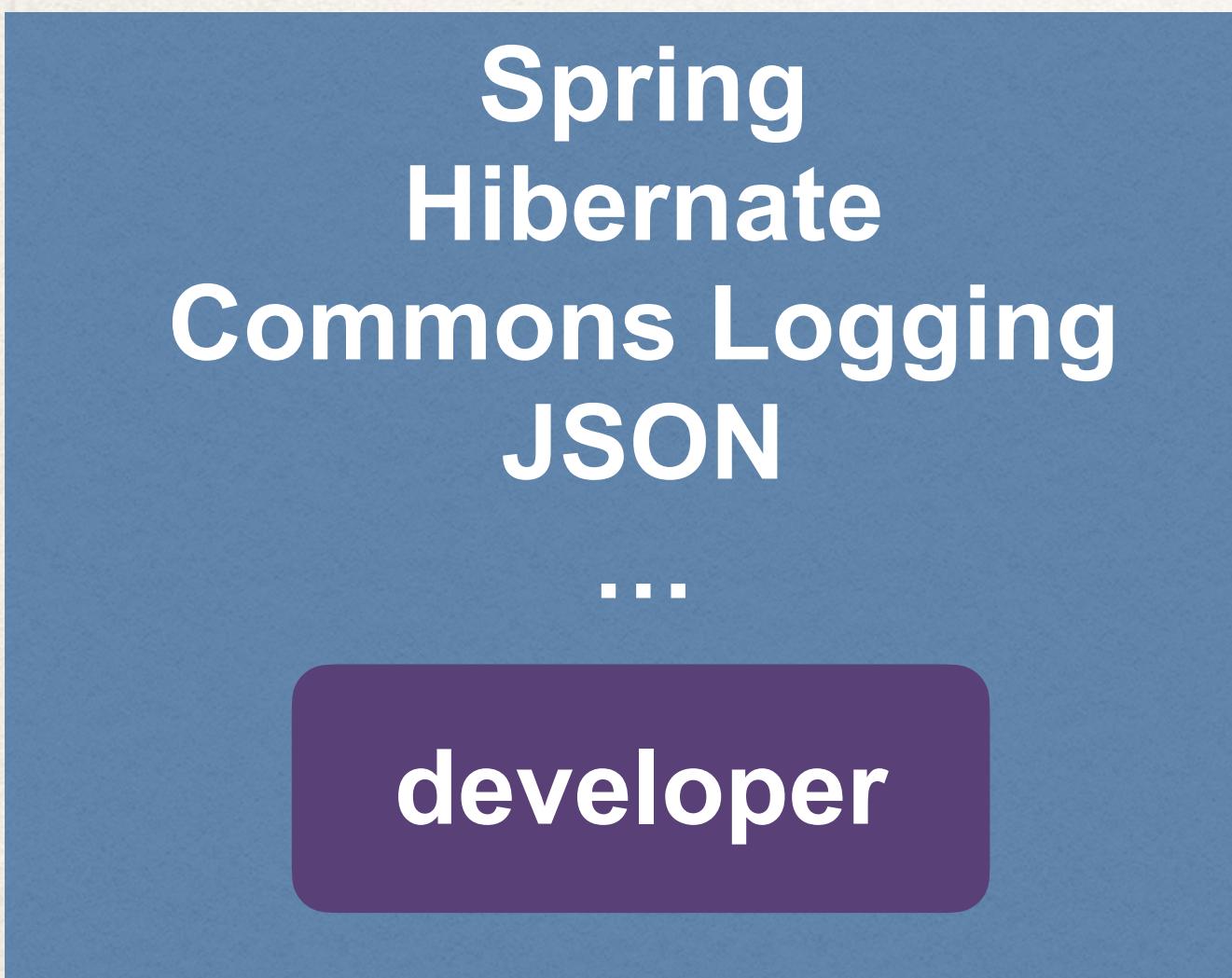
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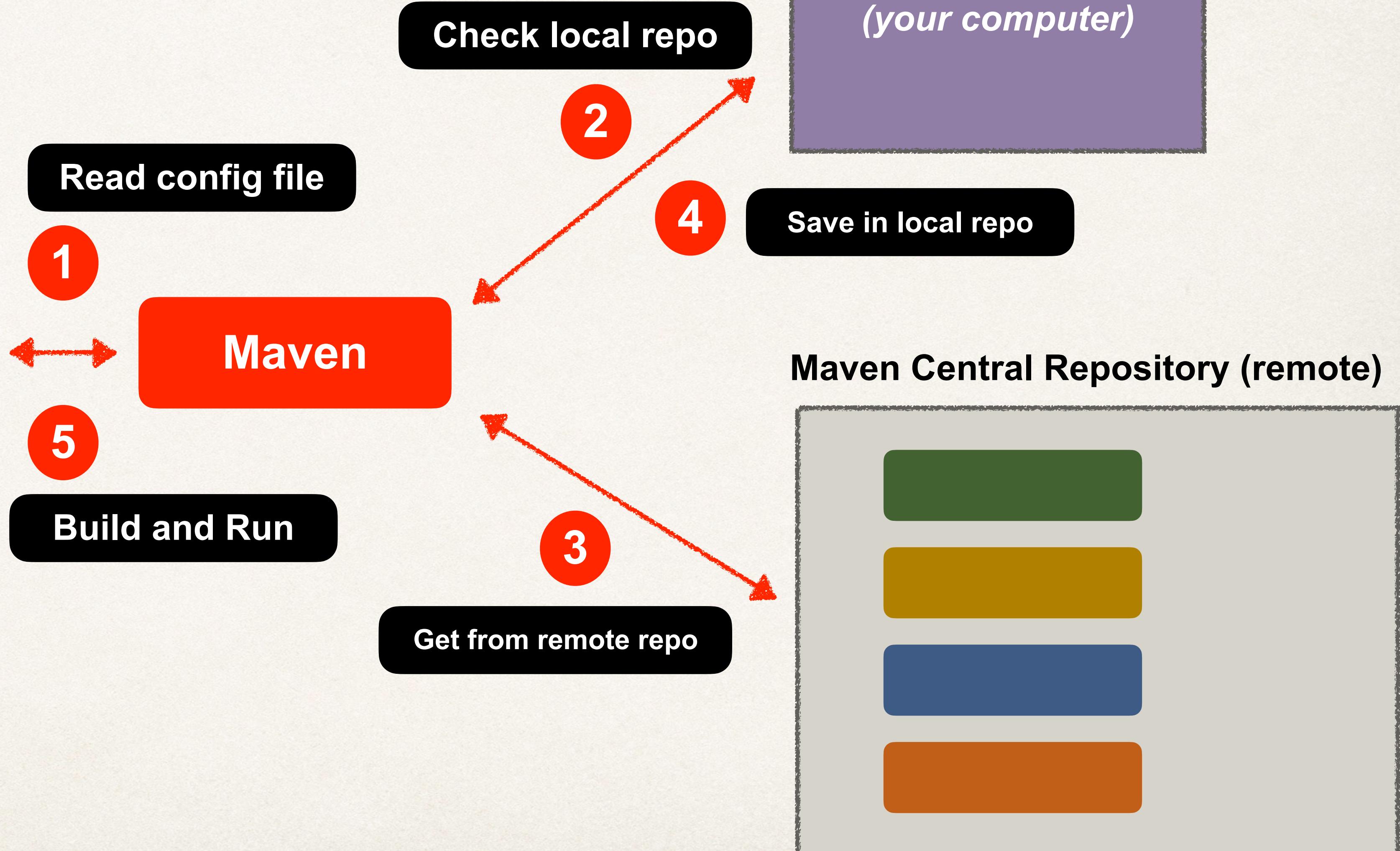
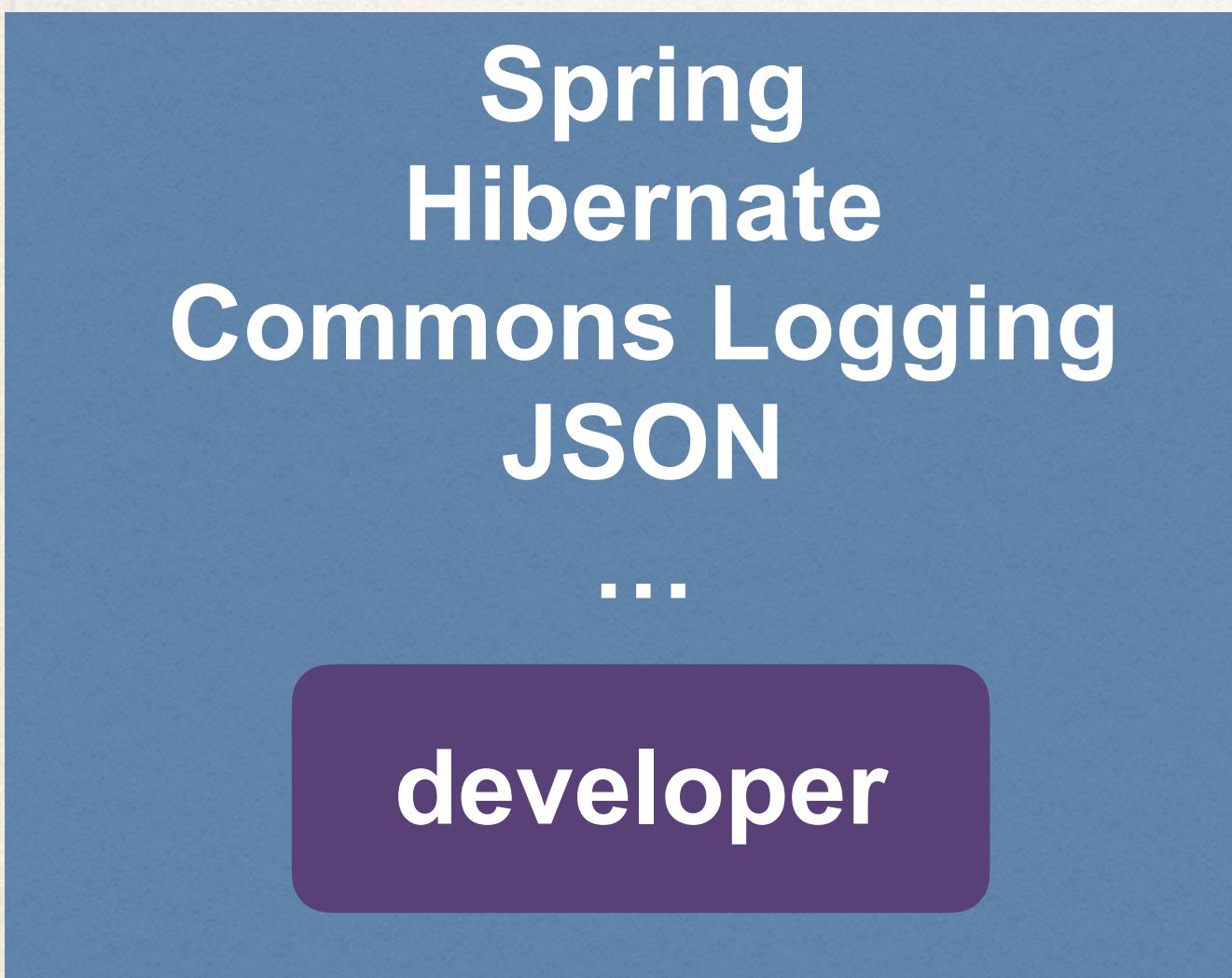
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Handling JAR Dependencies

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 - It will also download supporting dependencies
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- Maven will handle this for us automagically

Building and Running

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- Based on config file, Maven will add JAR files accordingly