

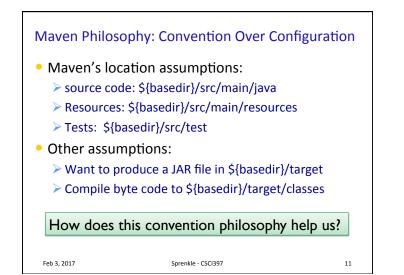
Maven

 Can be used as standalone tool or within Eclipse (what we'll do)

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	- - -	New Maven Project		
Ma	New Maven p			
IVIC				
	Artifact			
	Group Id:	edu.wlu.cs397		
	Artifact Id:	mavenexample		
	Version:	0.0.1-SNAPSHOT		
	Packaging:	jar 💙		
	Name:	Maven Example		
	Description:	We're practicing!		
	Parent Project			
	Group Id:			
	Artifact Id:			
	Version:	Browse Clear		
	Advanced			
Feb 3	?	< Back Next > Cancel Finish		

Maven Philosophy: Convention Over Configuration				
How does t	How does this philosophy help us?			
 Ant-based builds define locations 				
No built-in idea of where source code or resources				
are				
\succ User has to supply this information $ ightarrow$ more work for				
us!! Could be for any project:	<target <br="" name="compile">description="Compile the source code"> <mkdir dir="build/classes"></mkdir> <javac <br="" srcdir="src">destdir="build/classes" debug="on"> <include name="**/*.java"></include> <classpath refid="build.class.path"></classpath> </javac> </target>			
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Maven Philosophy: Convention Over Configuration

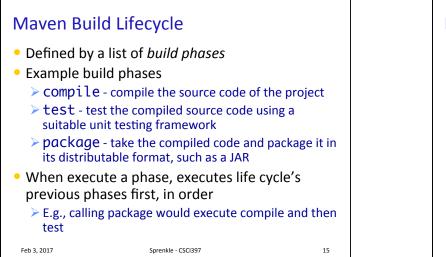
- Beyond location conventions...
- Core plugins apply a common set of conventions for compiling source code, packaging distributions, generating web sites, and many other processes
 - > Example: similar to Ant compile target
- Little effort:
 - Put source in the correct directory
 - > Maven handles the rest

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Consequences of Convention Over Configuration Users may feel forced to use a particular methodology or approach Most defaults can be customized Can create custom plugins for your requirements



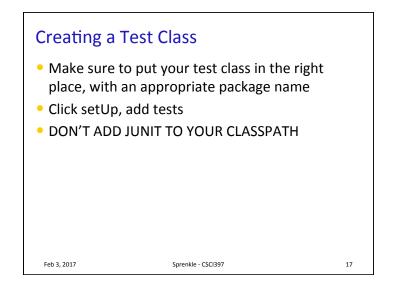
Maven Build Lifecycle

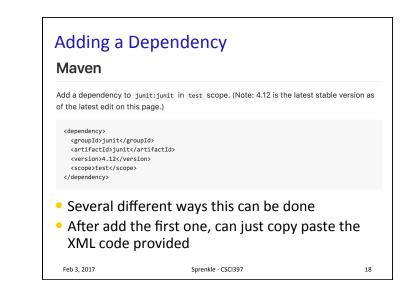
- 3 built-in build lifecycles
 - > default lifecycle handles project deployment
 - > clean lifecycle handles project cleaning
 - site lifecycle handles the creation of project's site documentation

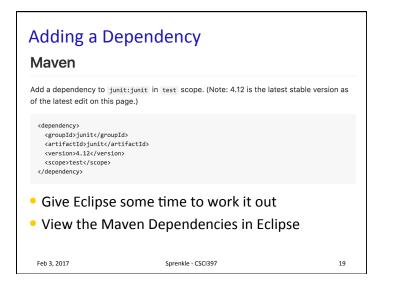
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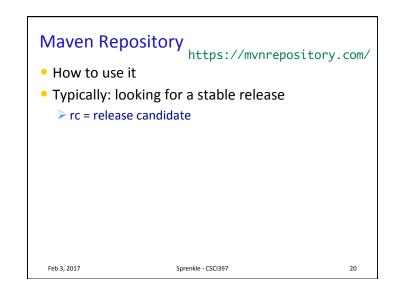
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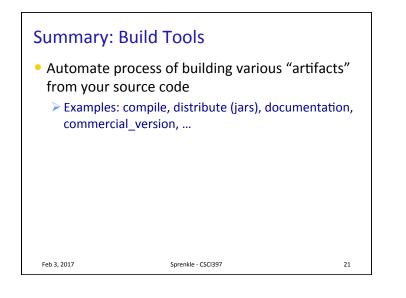
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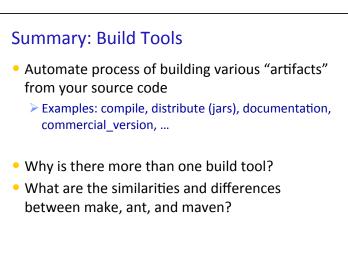
Running Discussion Questions

- Why does the tool exist? What is its purpose?
- What can the tool do?
- What can't the tool do?
 - Because it hasn't been done? Because of current technology limitations? Or some other limitations?

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If because it hasn't been done, what can do to change that?

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