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Build tool concept

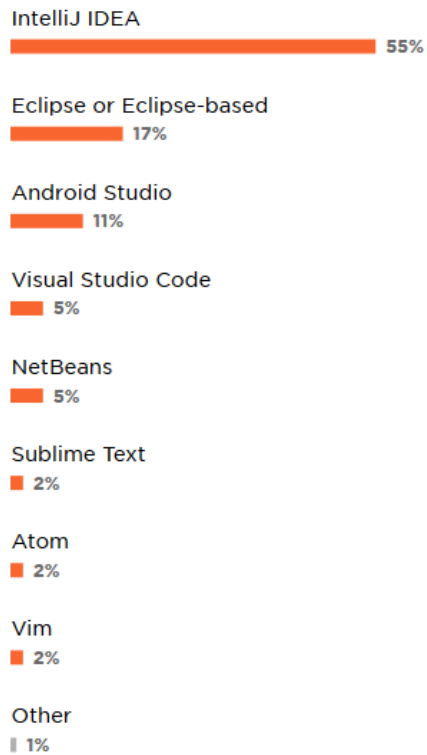
Maven™ build tool. DevTestOps training.



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Java IDEs



JetBrains research among Java developers, 2018, <https://www.jetbrains.com/research/devecosystem-2018/java/>

How project looks like in different IDEs

Issues when building in IDE

- 1 **MUST HAVE IDE ON TARGET MACHINE**
- 2 **FORCE DEVELOPERS USE PARTICULAR ONE**
- 3 **NOT COMMAND LINE FRIENDLY**
- 4 **DEPENDENCY HELL**

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Why Maven

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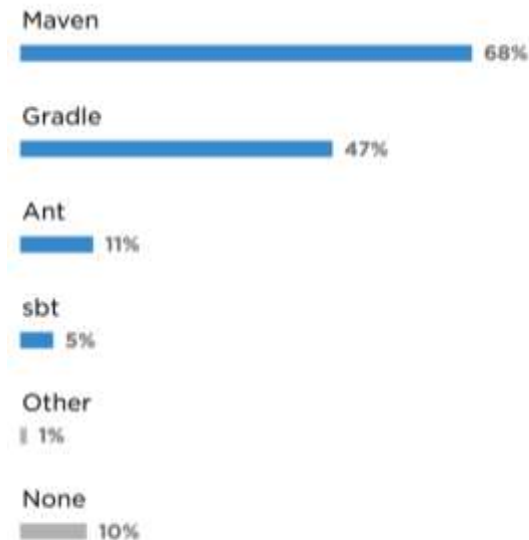


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Why Maven

- Dependency management
- Build lifecycle
- Plugins



Question with checkboxes. Sum of shares may be more than 100%.

JetBrains research among Java developers, 2018, <https://www.jetbrains.com/research/devecosystem-2018/java/>

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Download, install, configure

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Download, install, configure

DOWNLOAD & INSTALL

- Download binary from here:
<http://maven.apache.org/download>
- Unpack to folder without whitespaces in path

CONFIGURE

- JAVA_HOME
- MAVEN_HOME
- MAVEN_HOME\bin in PATH

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Create project & import in IDE

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Create first project from archetype

```
mvn archetype:generate maven-archetype-quickstart
```

More details at <https://maven.apache.org/guides/introduction/introduction-to-archetypes.html>



Integration with IntelliJ IDEA

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Build lifecycle

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Build lifecycle

Most used

- clean
- test
- package
- install
- deploy

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Dependency management

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Dependency management

- Find library at search.maven.org
- Add necessary version to POM
- See it in `~/.m2/repository` folder



The screenshot shows the Sonatype Central Repository search results for 'selenium-java'. The table lists various artifacts with their group IDs, artifact IDs, latest versions, update dates, and download links.

Group ID	Artifact ID	Latest Version	Updated	Download
org.seleniumhq.selenium	selenium-java	3.141.5 (98)	06-Nov-2018	
com.applitools	eyes-selenium-java3	3.141.3 (44)	04-Nov-2018	
com.applitools	eyes-selenium-java3-jersey1x	3.35.3 (7)	12-Sep-2018	
com.applitools	eyes-selenium-java3-jboss	3.36 (8)	14-Aug-2018	
io.testable	testable-selenium-java	0.0.3 (3)	25-Apr-2018	
com.microfocus.adm.leanft	leanft-selenium-java-sdk	1.0 (1)	25-Mar-2018	
com.applitools	eyes-selenium-java	2.57 (83)	01-Jun-2017	
org.jbehave.web	...elenium-java-spring-archetype	4.0-beta-1 (10)	09-May-2017	

