

PRODUCTIVE, EFFECTIVE **DEVELOPMENT?**

YOU WEAK MINDED FOOL!

SIMON MAPLE
@SJMAPLE



ABOUT ME



SIMON MAPLE
@SJMAPLE



ABOUT **ME**



SIMON MAPLE

@SJMAPLE

 **ZERO**TURNAROUND

VIRTUAL JUG FOUNDER

LONDON JUG CO-LEADER

JAVA CHAMPION

JAVAONE ROCKSTAR

REBELLABS AUTHOR

10 KICK-ASS TECHNOLOGIES MODERN DEVELOPERS LOVE

GEEKS REVEAL THE INDUSTRY'S BEST TECH

Is geek love better
than normal love?

1. Confluence
2. Git
3. Gradle
4. Groovy
5. IntelliJ IDEA
6. Jenkins
7. JIRA
8. MongoDB
9. Scala
10. Tomcat



REBELLABS
by ZERO TURNAROUND

WHAT IS **PRODUCTIVITY**?



PRODUCTIVITY i

Removing non-essential tasks

PRODUCTIVITY ii

Optimising existing tasks

2005

:0)

2015

:)

PRODUCTIVITY iii

Retaining awesome tasks

DON'T LOSE SIGHT OF THE GOAL

Speed is **not** our goal

Speed is a **measure** of how fast
we reach our goal

PRODUCTIVITY IS A LIE



COMMUNICATION



COMMUNICATION

Sharing knowledge across a team

COMMUNICATION

It isn't just **technology**
that increases your productivity

ATLASSIAN **TOOLING**



ATLASSIAN **TOOLING**



PRODUCTIVE TOOLING

PRODUCTIVITY ii

OPTIMISING EXISTING TASKS
IN A LESS THAN
AWESOME PROCESS



THE GREAT JAVA APPLICATION SERVER DEBATE

TOMCAT, JBOSS, JETTY, GLASSFISH, LIBERTY
PROFILE, WEBLOGIC & WEBSHERE

DOWNLOAD & INSTALLATION

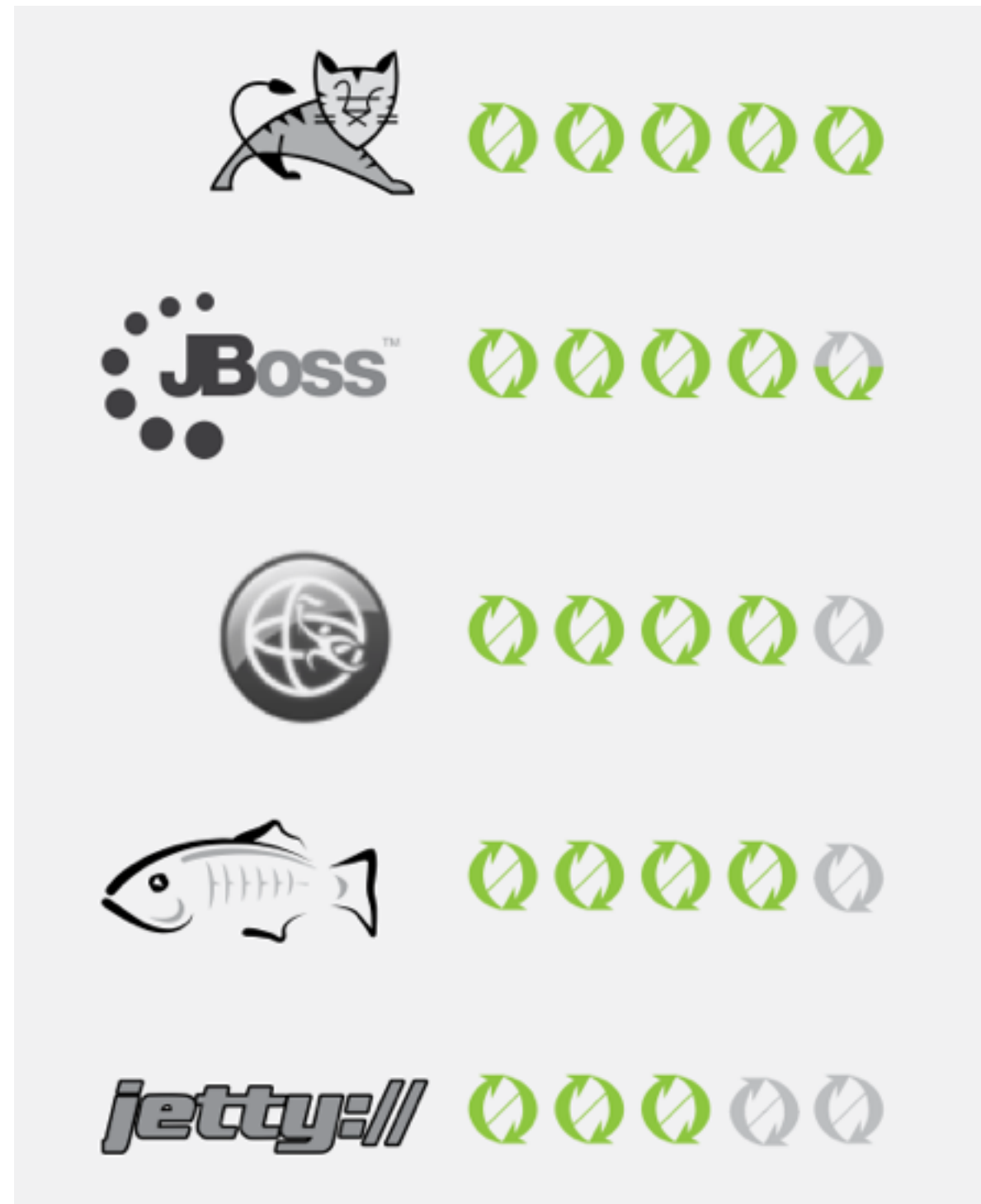
jetty://     



TOOLING SUPPORT



DOCS AND COMMUNITY



PERFORMANCE METRICS

	LP	TC	GF	JETTY	JB	AVG
Startup with app & invoke petclinic	10.5	7.5	11	12.5	8.5	10
Startup, deploy & invoke petclinic	11	8.5	11.5	11.5	7.5	10
Startup with app & invoke jenkins	25	11.5	14	15	17	16.5
Startup, deploy & invoke jenkins	25	12.5	16.5	15	18	17.4

PERFORMANCE METRICS

Task	Liberty Profile 8.5.5.4	Liberty Profile 8.5.0.0
Empty server startup	2	2
Server startup time with petclinic installed	3	2.5
Server startup time with jenkins installed	8	4
Petclinic app deploy time	2.5	1
Jenkins app deploy time	5.5	2
Petclinic init time (1st req)	4	8
Jenkins init time (1st req)	8	21
Server startup, deploy petclinic & invoke	10	11
Server startup, deploy jenkins & invoke	16	25

PERFORMANCE METRICS

jetty://     





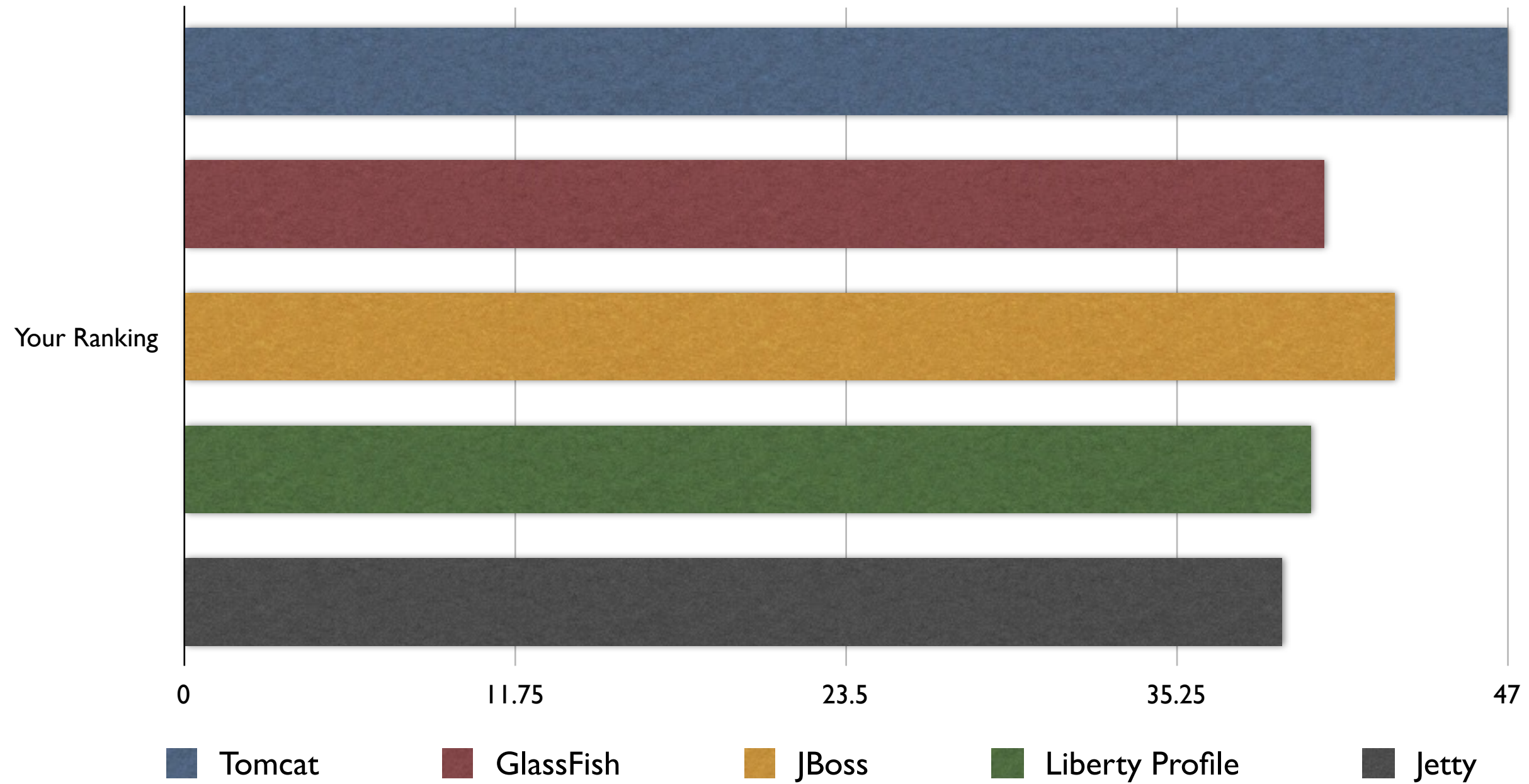




JFokus 2015



FEATURES



TOMEE

PRODUCTIVITY iii

**RETAINING AWESOME
TASKS IN A
AWESOME PROCESS**



<http://tomee.apache.org/>

TOMEE

PRODUCTIVITY

SPEED IS NOT OUR GOAL

SPEED IS A MEASURE OF HOW
FAST WE REACH OUR GOAL



<http://tomee.apache.org/>

GRADLE





JAVA BUILD TOOLS: PART 2

A DECISION MAKER'S COMPARISON OF
MAVEN, GRADLE AND ANT + IVY

Who will win
"Least Annoying Build Tool"?

GRADLE

DOING A CLEAN BUILD WITH TESTS (DOWNLOAD DEPENDENCIES)

	maven	 gradle	 ivy
Command	rm -rf ~/.m2/repository && time mvn clean package	rm -rf ~/.m2/repository && rm -rf ~/.gradle/caches/ && time gradle clean build --daemon	rm -rf ~/.ivy2/cache/ && time ant clean war test
Time - Run 1 <i>(seconds)</i>	41.393	35.412	136
Time - Run 2 <i>(seconds)</i>	37.418	33.402	133
Time - Run 3 <i>(seconds)</i>	36.797	30.548	137
Time - Run 4 <i>(seconds)</i>	42.656	30.336	141
Time - Run 5 <i>(seconds)</i>	39.637	35.369	129
Average (min /max omitted)	39.483	33.106	135.333

Maven






Gradle



Ant + Ivy*



GRADLE

Tasks	maven			 gradle			 		
IDEs	Eclipse	IDEA	NetBeans	Eclipse	IDEA	NetBeans	Eclipse	IDEA	NetBeans
Import a project build structure into IDE	yes	yes	yes	yes	yes	yes	yes	yes	yes
Submit a build from IDE	yes	yes	yes	yes	yes	yes	yes	yes	yes
Dependency management in IDE	yes	yes	yes	yes	yes	yes	yes	yes	yes
Automatic download of dependencies	yes	yes	yes	yes	yes	yes	yes	yes	yes
Support/Wizard to create build scripts	yes	yes	yes	yes	yes	yes	yes	yes	yes
Enablement	plugin	built-in	built-in	plugin	built-in	plugin	Ant: built-in Ivy: plugin	Ant: built-in Ivy: plugin	Ant: built-in Ivy: plugin

INTELLIJ IDEA



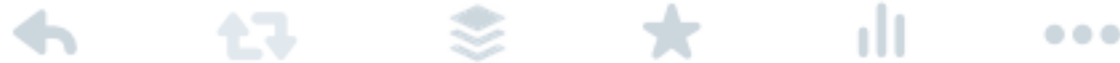
INTELLIJ IDEA



Simon Maple






@sjmaple

Could you help me write a presentation :)
What are your favourite features in IntelliJ that help your productivity?



8:38 PM - 21 Mar 2015

INTELLIJ IDEA

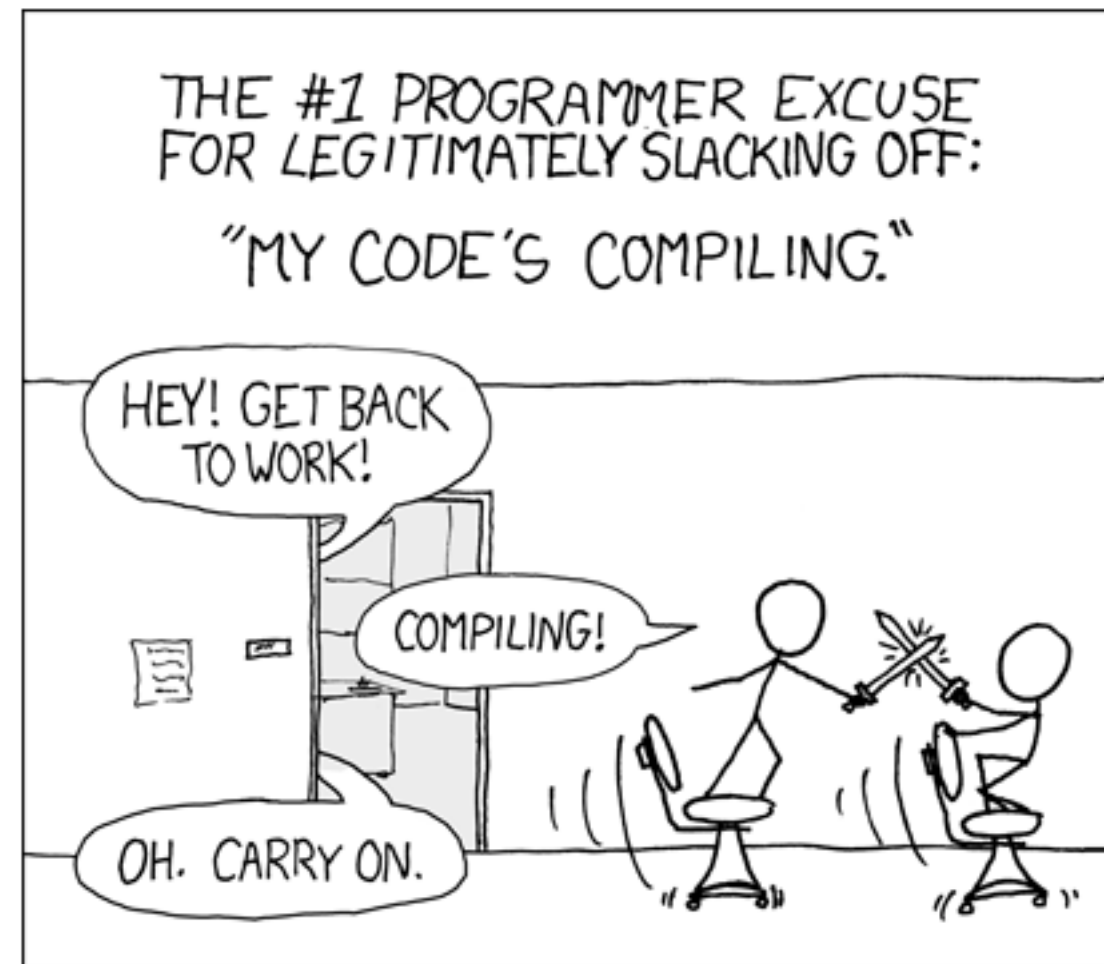
-  **Phil Standen** @phil_standen 2d
@sjmaple auto-gen .gitignore, JAX-RS @PathParam auto complete, JPA "make this a legit entity". Point at a git with a pom.xml and go.
-  **Benjamin Savoy** @benjamin_savoy
@sjmaple well, their licencing scheme and the fact I have to open a different IDE when I swich languages isn't making me more productive ;)
-  **Phil Standen** @phil_standen 2d
@sjmaple oh and "it looks like you are doing X click to make everything auto-config"
-  **Mert** @mertcal 2d
@sjmaple tight integration with Spring: creating ApplicationContext configuration by identifying xml files, enabling bean profiles selection & etc.
-  **ags313** @ags313 2d
@sjmaple suggestions without needing to bash ctrl-space, code centricism, ctrl-w, static analysis, refactorings, mac-shift-a
-  **Mert** @mertcal 2d
@sjmaple awesome integration w/ VCS tools like git, even offers a merge UI when conflicts occur. no need to leave the IDE for 3rd party tool
-  **Mert** @mertcal 2d
@sjmaple ability to change the default keymaps and export it to distribute for your teammates. also supports eclipse based shortcuts.

-  **Raúl Ávila** @ravila80 2d
@sjmaple Ctrl + shift + enter to complete statement, it's amazing
-  **Sargerino** @sargerino 2d
@sjmaple stability, seamless integration of features, i.e. no different perspectives to navigate...
-  **Benjamin Savoy** @benjamin_savoy 2d
@hhariri I work with modules in multiple languages. So far Komodo has been the best for that.
-  **Christopher Batey** @chbatey 2d
@sjmaple a simple one but a goodie: generate constructor/getter/setter/equals/to string
-  **Damian Blazejewski** @damian_bl 2d
@sjmaple vcs operations pop up: alt + back quote, brilliant maven support
-  **Victor Bucutea** @victor_bucutea 1d
@sjmaple Alt+J multiple select, db tool window-indexes DB and makes brilliant auto completion on query typing. Simple yet brilliant thingz.
-  **Sebastien Arod** @seboch 1d
@sjmaple Terminal integration (Alt+F12)

WASTED TIME

PRODUCTIVITY i

**REMOVING NON-ESSENTIAL
TASKS IN AN OTHERWISE
AWESOME PROCESS**



[XKCD.COM/303](http://xkcd.com/303)

JREBEL

JRebel maps a project workspace directly to your Running application, so that:

- When a developer makes a change to any class or resource in their IDE the change is immediately reflected in the application, skipping the build and redeploy phases
- Developers make a change, see it, approve it – in very fast development cycles



WITH JREBEL

To test code changes, developers need to:

0 CODE CHANGE

~~1 Compile, build, package~~

~~2 SSH/SCP/FTP to target machine~~

~~3 Redeploy the application~~

~~4 Restart the application server~~

~~5 Create state required to test your code change~~

6 TEST!

0 CODE CHANGE

**Remove the
remote access**

**Saving
1 hr/day/dev**

JREBEL IN ACTION



FREE STUFF!

JRebel

0t.ee/javaone-jr



*Get a free
t-shirt!*

JBoss FORGE



JAVA EE SCAFFOLDING

RAPID DEVELOPMENT

PLUGIN BASED

JBOSS FORGE IN ACTION



FAIL EARLY

PRODUCTIVITY

SPEED IS NOT OUR GOAL

SPEED IS A MEASURE OF HOW
FAST WE REACH OUR GOAL



~~FAIL~~ LEARN EARLY

PRODUCTIVITY

SPEED IS NOT OUR GOAL

SPEED IS A MEASURE OF HOW
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XREBEL



Lightweight Java Profiler

Understand what is happening
behind your code

Find and **fix** issues

Input / Output

Calls

Queries

Search ...



All 20 6.6 ms

SQL 20 6.6 ms

NoSQL 0 0 s

WebServices 0 0 s

☐ Hidden items

Results

Duration

GET /owners.html @ 13:07:13 20 6.6 ms

OwnerController.processFindForm 20 6.6 ms <2 calls>

JpaOwnerRepositoryImpl.findByLastName 20 6.6 ms

JPA SELECT DISTINCT owner FROM Owner owner inner join fetch owner.pets WHERE owner.lastName LIKE :lastName 20 6.6 ms

SELECT DISTINCT owner FROM Owner owner inner join fetch owner.pets WHERE owner.lastName LIKE '%'

SELECT ... FROM OWNERS, PETS

13 rows

3.3 ms

SELECT ... FROM TYPES 6

6 rows

0.85 ms

SELECT ... FROM TYPES

1 row

0.16 ms

SELECT ... FROM TYPES

1 row

0.16 ms

SELECT ... FROM TYPES

1 row

0.14 ms

SELECT ... FROM TYPES

1 row

0.14 ms

SELECT ... FROM TYPES

1 row

0.12 ms

SELECT ... FROM TYPES

1 row

0.13 ms

SELECT ... FROM VISITS 13

4 rows

2.4 ms

XRebel

20



6.6 ms

+40 B

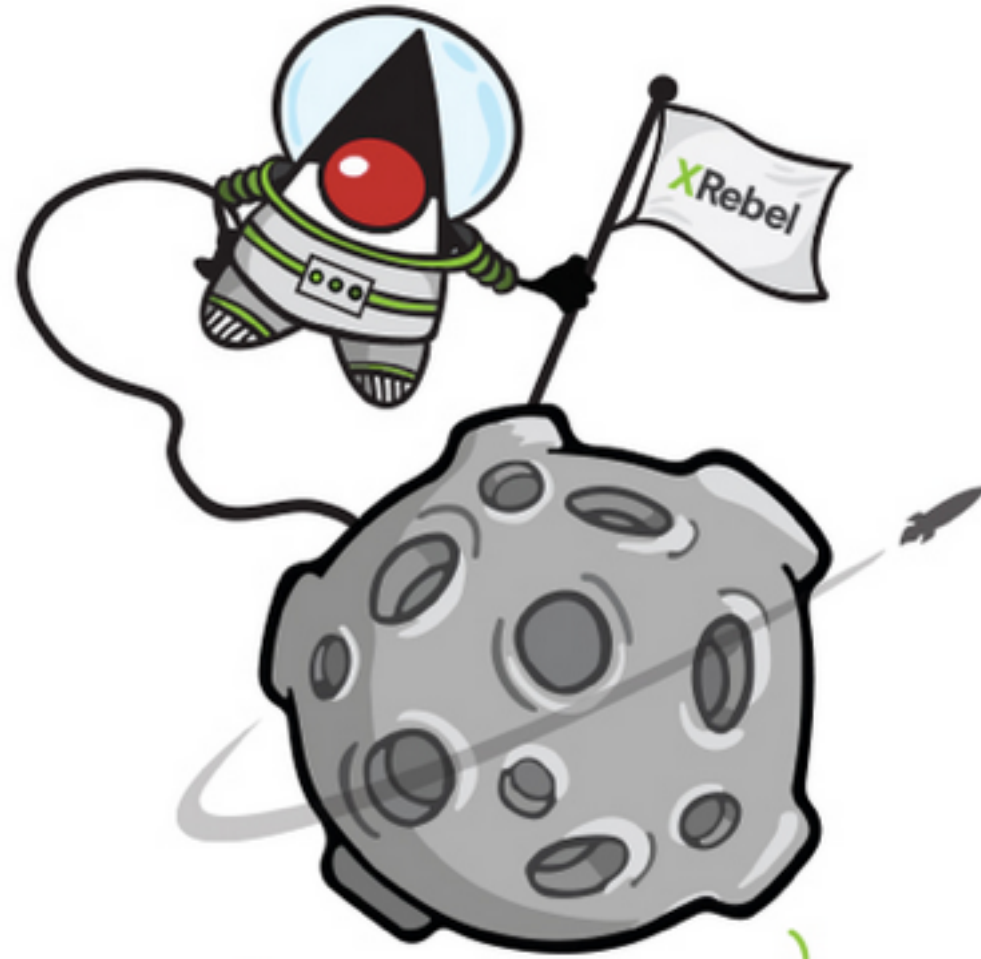


136 B

0



XREBEL IN ACTION



*One small step for Duke,
one giant leap for Java-kind*

FREE STUFF!

XRebel

0t.ee/javaone-xr



*Get a free
t-shirt!*



ARQUILLIAN



ARQUILLIAN



Take your tests to the container

Connect to that container

View results like unit tests

ARQUILLIAN

```
1  @RunWith (Arquillian.class)
2  public class ArquillianTest {
3
4
5      @Deployment
6      public static Archive<?> createTestArchive() {
7
8
9          return ShrinkWrap.create (WebArchive.class, "test-demo.war")
10             .addPackage (Manager.class.getPackage ())
11             .addPackage (SimpleProperty.class.getPackage ())
12             .addPackage (Producer.class.getPackage ())
13             .addPackage (RepositoryManager.class.getPackage ())
14             .addPackage (ServiceBean.class.getPackage ())
15             .addAsResource ("META-INF/persistence.xml")
16             .addAsWebInfResource (EmptyAsset.INSTANCE, "beans.xml")
17             // Deploy our test datasource
18             ;
19
20     }
21
```

ARQUILLIAN

```
21  
22     @Inject  
23     ServiceBean service;  
24  
25     @Inject  
26     RepositoryManager query;  
27
```

ARQUILLIAN

```
27
28 @Test
29 public void testApplication() throws Exception {
30
31     SimpleProperty property = new SimpleProperty();
32     property.setKey("mykey");
33     property.setValue("value");
34
35     service.put(property);
36     System.out.println("Created SimpleProperty");
37
38     SimpleProperty key = query.queryCache("mykey");
39     System.out.println("Retrieved: "+property);
40     assertNotNull(key);
41
42     service.delete(property);
43     System.out.println("Deleted: "+property);
44
45
46 }
47
```

SUMMARY

PRODUCTIVITY IS A LIE



DON'T COMMUNICATE!



DON'T USE TOMEE!



DON'T USE INTELLIJ!



STOP WORKING FASTER!



DON'T FAIL EARLY!



DON'T BE PRODUCTIVE!



FREE STUFF!

JRebel



0t.ee/javaone-jr

XRebel



0t.ee/javaone-xr