10 WAYS TO BE A MORE PRODUCTIVE DEVELOPER

SIMON MAPLE

@SJMAPLE



ABOUT ME



SIMON MAPLE **@SJMAPLE**



DEVELOPER ADVOCATE

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

ls geek love better than normal love?



HOW CAN WE IMPROVE OUR PRODUCTIVITY?



PRODUCTIVITY i

Removing

non-essential tasks



PRODUCTIVITY ii

Optimising existing tasks

2005

2015

:0)

:)

PRODUCTIVITY iii

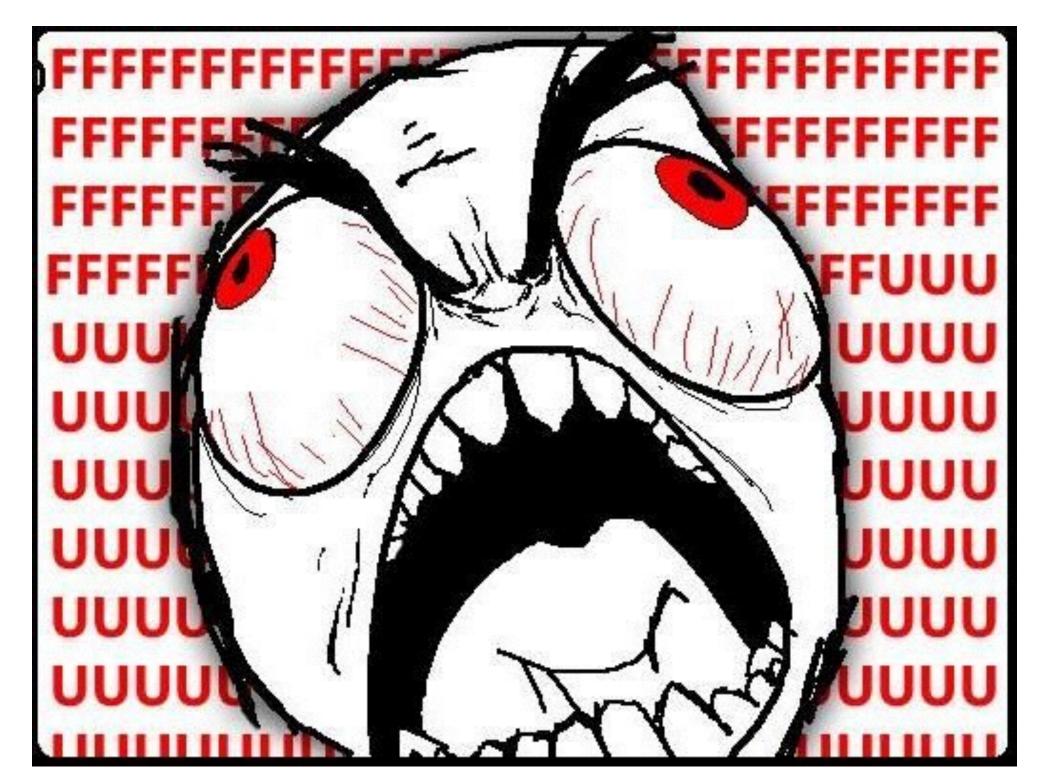
Retaining awesome tasks

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





Sharing knowledge across a team

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



SLACK



Group channels

Open door chat policy

Smart Integrations

ATLASSIAN TOOLING



ATLASSIAN TOOLING



Atlassian



Atlassian



Atlassian



TOOLING

PRODUCTIVITY ii

OPTIMISING EXISTING TASKS
IN A LESS THAN
AWESOME PROCESS



JAVA APPLICATION SERVER DEBATE

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



DOWNLOAD & INSTALLATION

TOOLING SUPPORT

DOCS & COMMUNITY





























































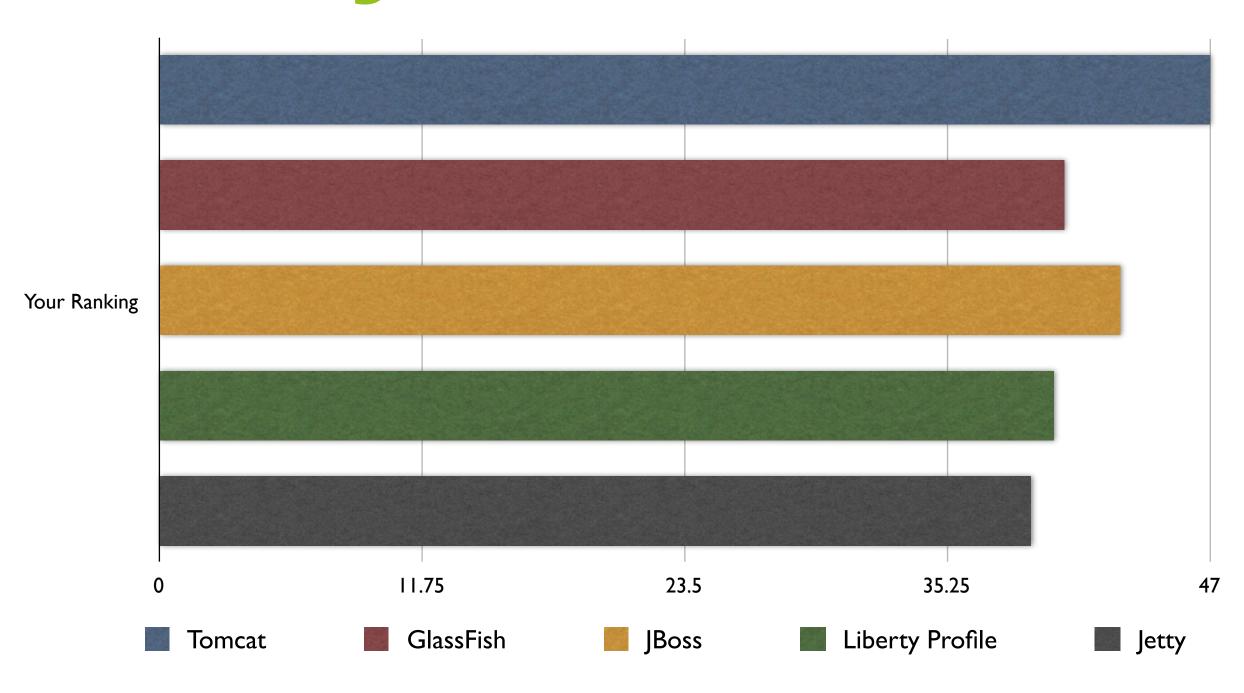
PERFORMANCE METRICS

	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

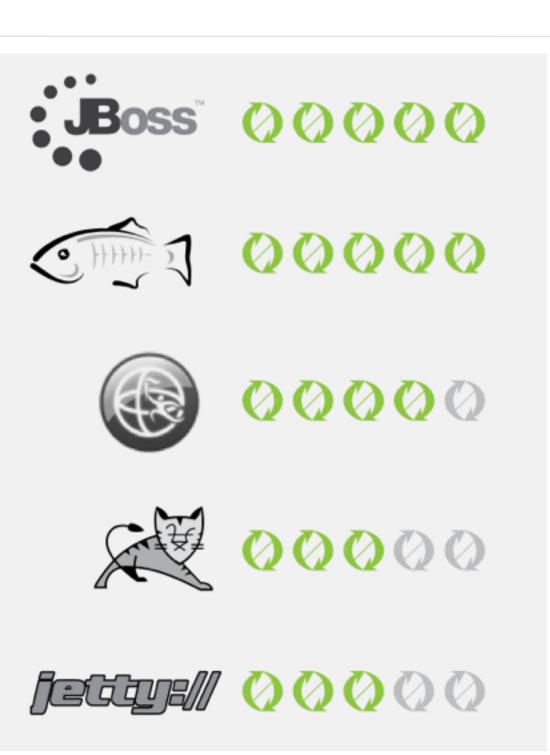
PERFORMANCE METRICS

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

JFOKUS 2015



FEATURES



FEATURES

NOW JAVA EE 7 COMPLIANT









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SPRING BOOT



Just Run Applications

Production Ready

Sensible defaults

SPRING BOOT IN ACTION



"Make JAR not WAR!"

— Josh Long (@starbuxman)

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/repos- itory && time mvn clean package	rm -rf ~/.m2/re- pository && rm -rf ~/.gradle/caches/ && time gradle clean builddae- mon	rm -rf ~/.ivy2/ cache/ && time ant clean war test	
Time - Run 1 (seconds)	41.393	35.412	136	
Time - Run 2 (seconds)	37.418	33.402	133	
Time - Run 3 (seconds)	36.797	30.548	137	
Time - Run 4 (seconds)	42.656	30.336	141	
Time - Run 5 (seconds)	39.637	35.369	129	
Average (min /max omitted)	39.483	33.106	135.333	



GRADLE

Tasks	maven			(gradle			SAPAGHE ANT		
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



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













8:38 PM - 21 Mar 2015

INTELLIJ IDEA



Phil Standen @phil_standen

20

@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



Phil Standen @phil_standen

2d

@sjmaple oh and "it looks like you are doing X click to make everything auto-config"



Mert @mertcal

productive;)

2d

@sjmaple tight integration with Spring: creating AppContext 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



Sargeriño @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

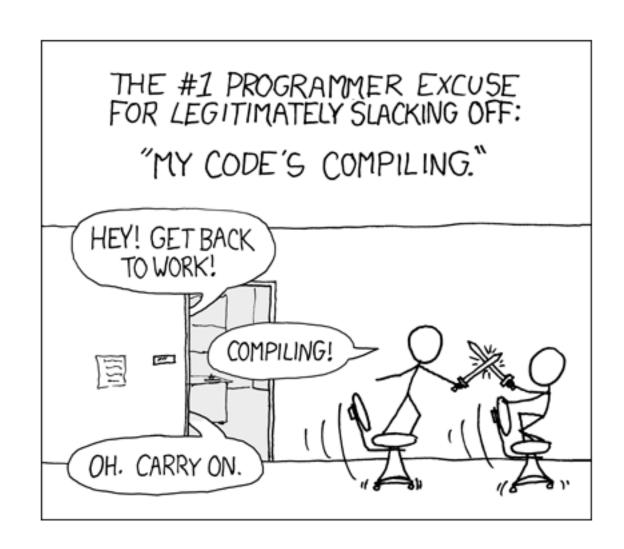
1d

@sjmaple Terminal integration (Alt+F12)

WASTED TIME

PRODUCTIVITY i

REMOVING NON-ESSENTIAL
TASKS IN AN OTHERWISE
AWESOME PROCESS



REBEL



WITH REBEL

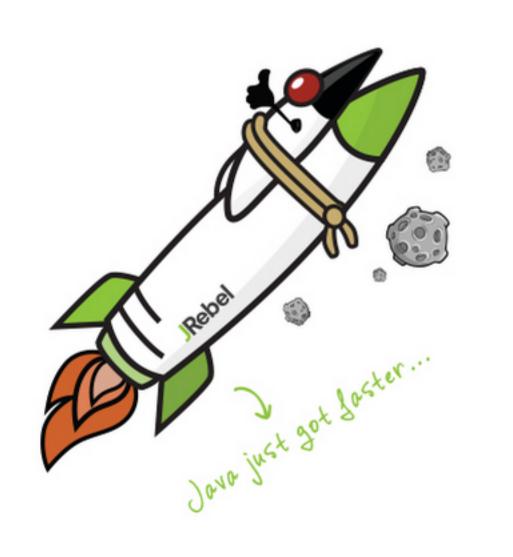
To test code changes, developers need to: 0 CODE CHANGE

- 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 (avr)
I hr/day/dev

REBEL IN ACTION



FREE STUFF!

Rebel

Ot.ee/jfokusjr



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

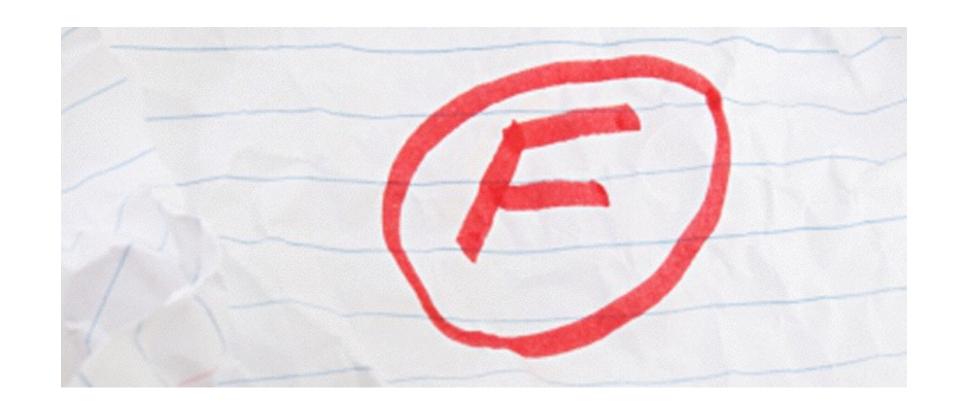


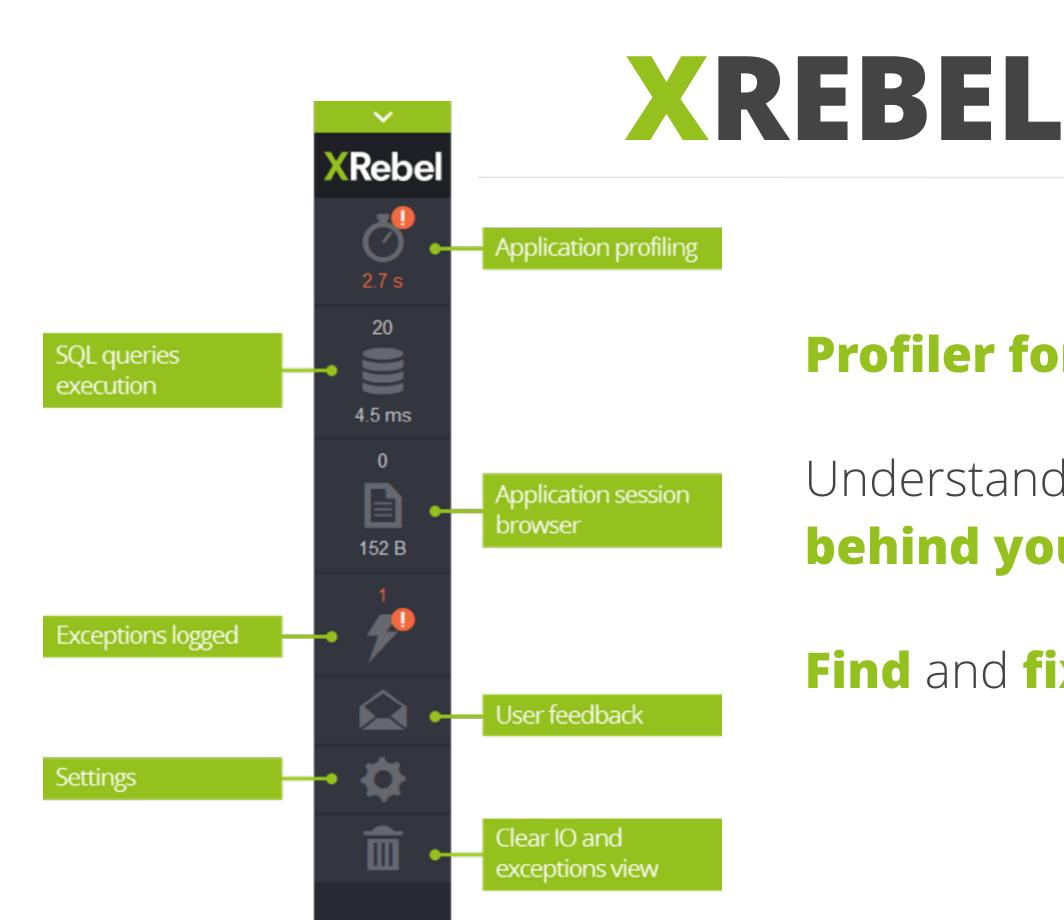
FAHL LEARN EARLY

PRODUCTIVITY

SPEED IS NOT OUR GOAL

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Profiler for Java Web Applications

Understand what is happening behind your code

Find and fix issues

XREBEL IN ACTION



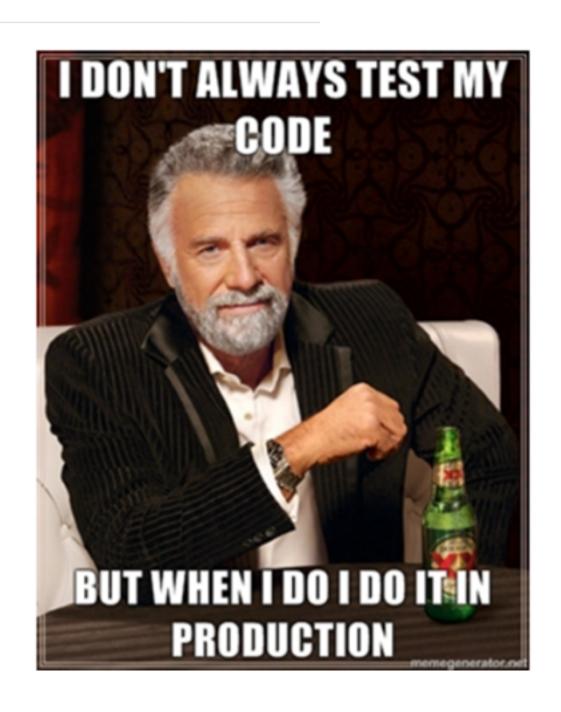
FREE STUFF!

Rebel

Ot.ee/jfokusxr









Take your tests to the container

Connect to that container

View results like unit tests

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

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

```
61
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);
             assertNotNull(key);
40
41
42
             service.delete(property);
             System.out.println("Deleted: "+property);
43
44
45
46
17
```

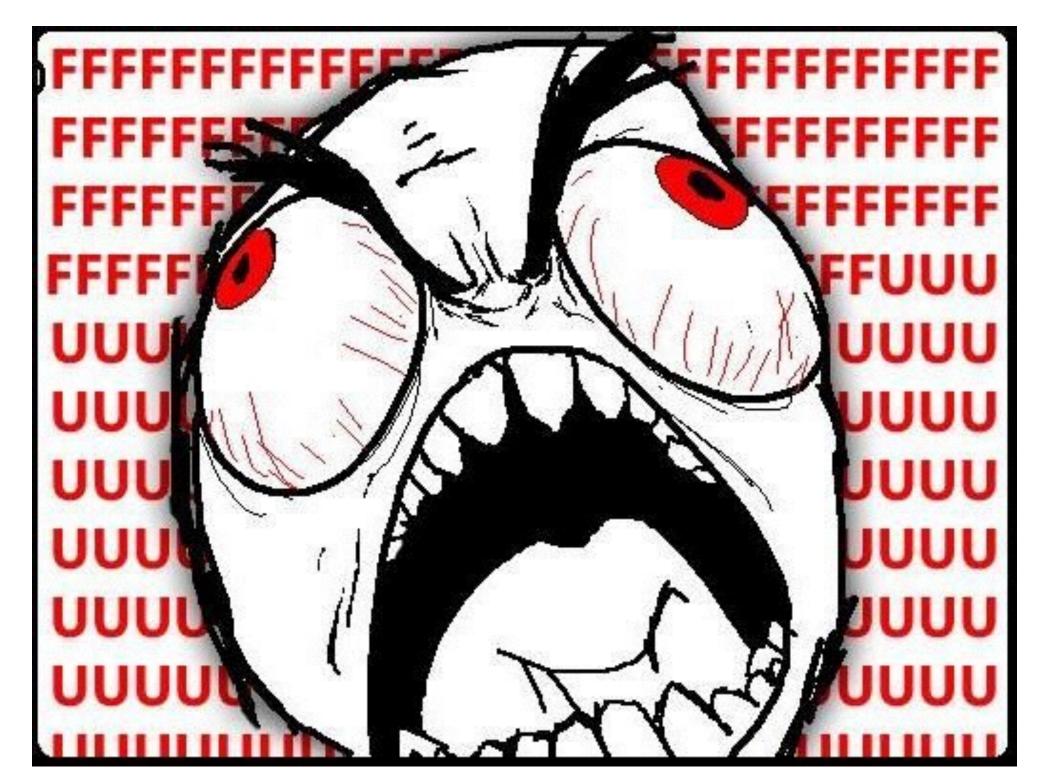
SUMMARY

CARE ABOUT YOUR TIME

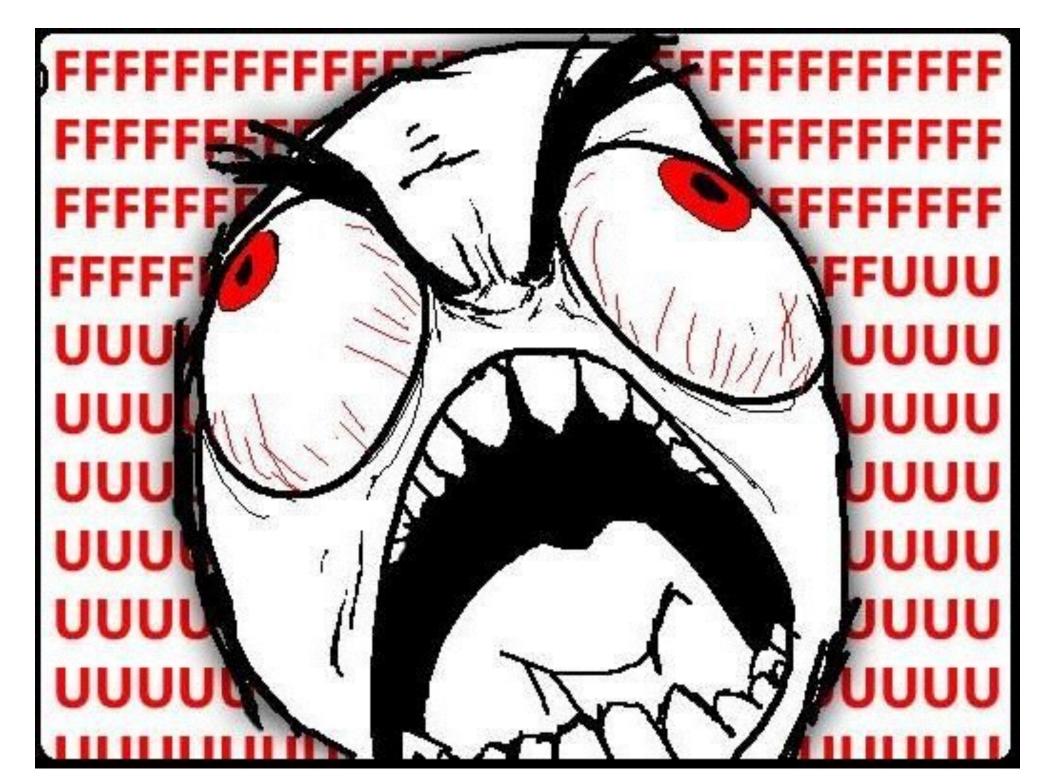
DON'T LOSE SIGHT OF YOUR GOAL

EXPLORE PRODUCTIVITY TOOLS

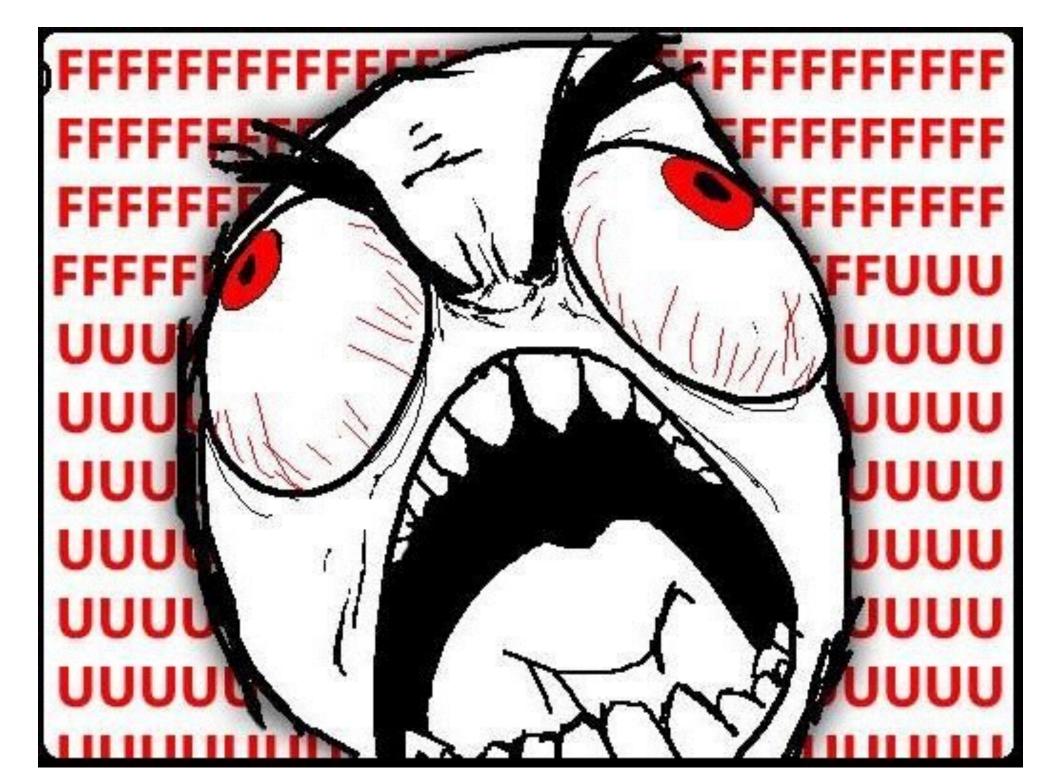
PRODUCTIVITY IS A LIE



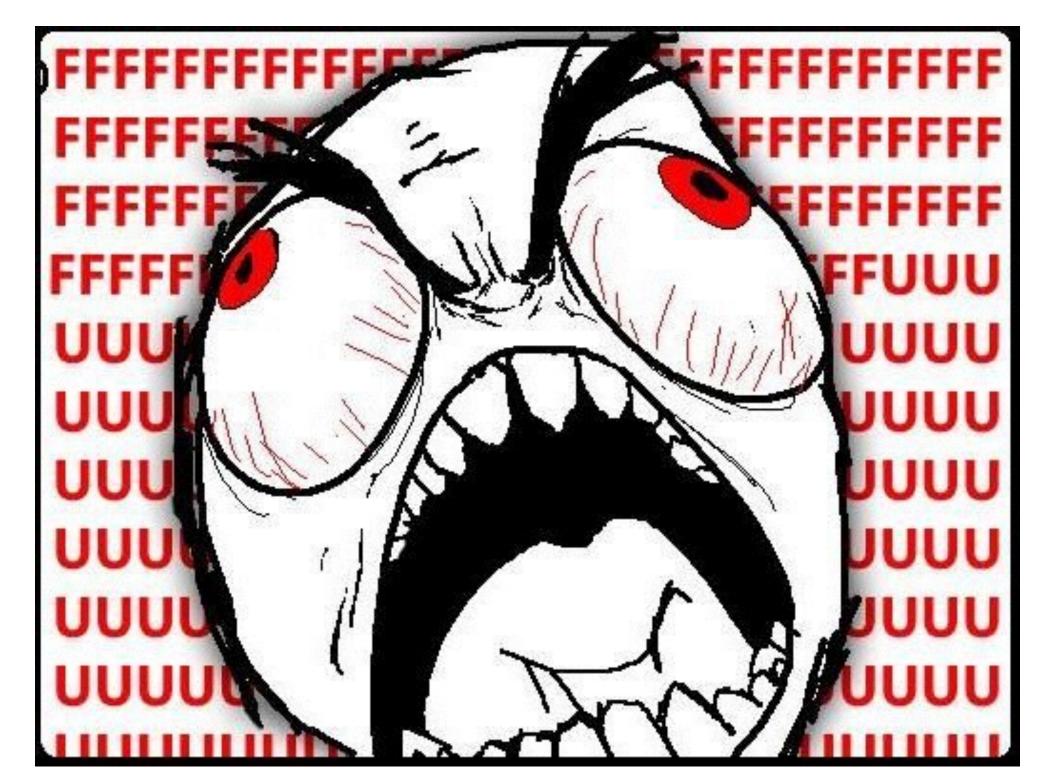
DON'T COMMUNICATE!



DON'T USE SPRING BOOT!



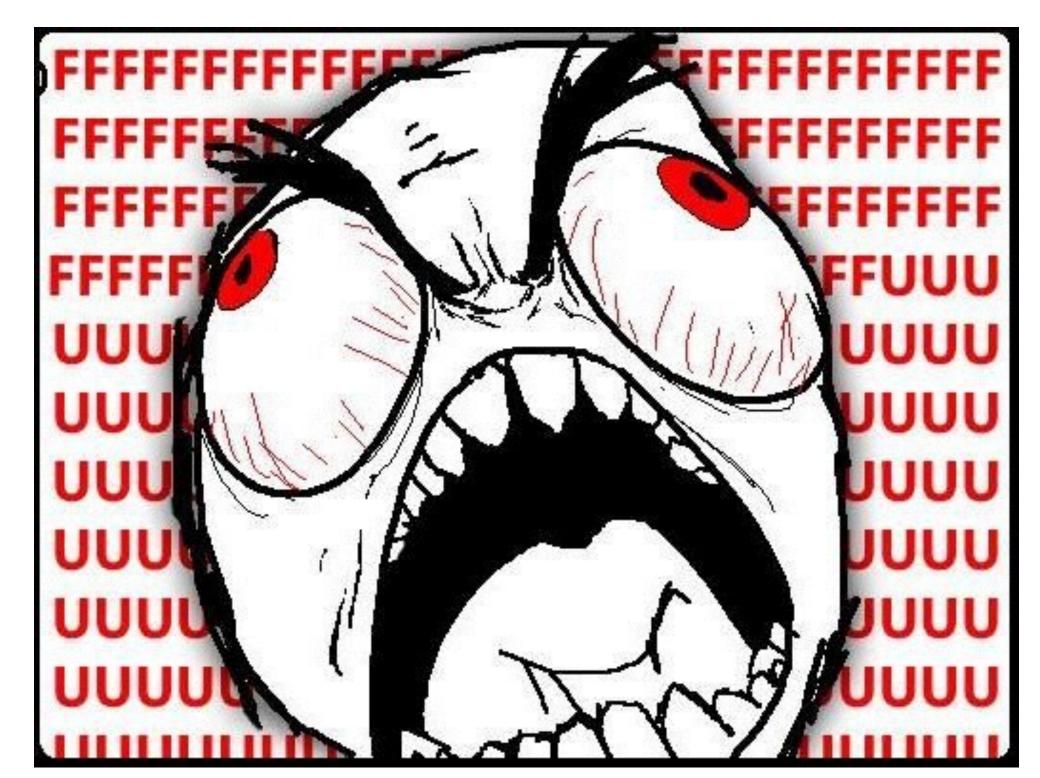
DON'T USE TOMEE!



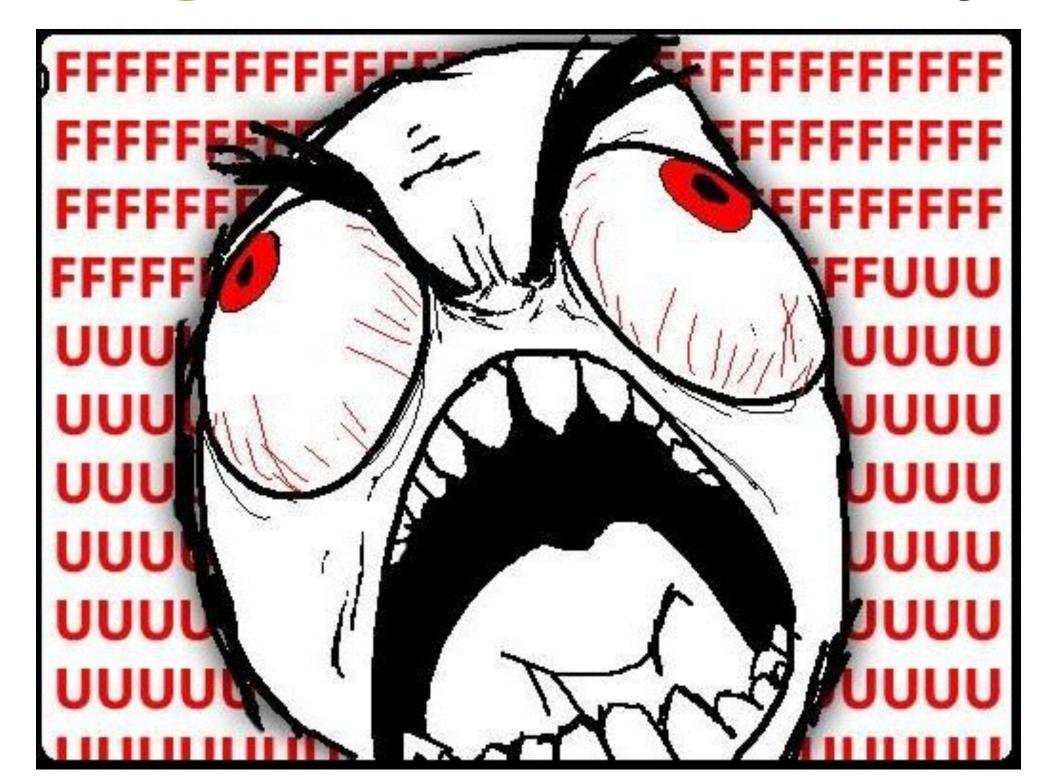
DON'T USE INTELLIJ!



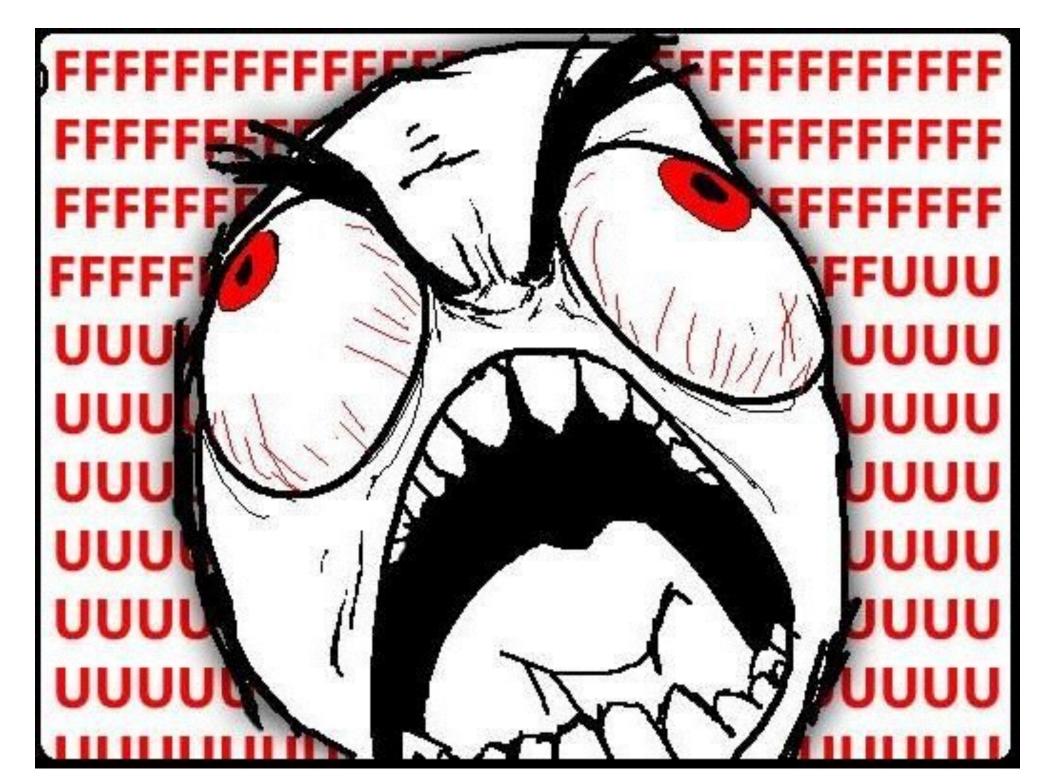
STOP WORKING FASTER!



DON'T FAIL EARLY!



DON'T BE PRODUCTIVE!



FREE STUFF!

JRebel



Ot.ee/jfokusjr

XRebel



Ot.ee/jfokusxr