

# Rocking the Gradle!

## (Short Version)

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# Why Gradle?





# **Rich imperative Layer**



# Demo

• Incremental Build



Project Explorer

incremental

- src/main/java
- src/test/java
- Groovy Libraries
- Gradle Dependencies (persisted)
- Gradle DSLD support
- JRE System Library [Java SE 6 (Mac
- Groovy DSL Support
- build
- src
  - build.gradle
  - build-1.gradle
  - build-2.gradle
  - build-3.gradle
  - foo.iml
  - foo.ipr
  - foo.iws
- java-standard
- rules

build.gradle

```
apply plugin: 'java'

version = '1.0'

sourceCompatibility = '1.6'

repositories {
    mavenCentral()
}

dependencies {
    compile 'commons-collections:commons-collections:3.2.1'
    testCompile 'junit:junit:4.7'
}
```

Writable

Smart Insert

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**Expect the  
Unexpected**





# **Build Masters Delight**



# Demo

•  Gradle Wrapper



Project Explorer

incremental

java-standard

- src/main/java
- src/test/java
- Groovy DSL Support
- Groovy Libraries
- Gradle Dependencies (persisted)
- Gradle DSLD support
- JRE System Library [Java SE 6 (MacOS X D
- build
- gradle
- src
  - build.gradle
  - build-1.gradle
  - build-2.gradle
  - build-3.gradle
  - build-4.gradle
  - build-5.gradle
  - build-6.gradle
  - gradle-app.setting
  - Java.iws
  - java-standard.iml
  - Java-standard.ipr
  - Java-standard.iws

rules

- src/main/java
  - org.gradle
    - Person.java
- src/test/java
  - org.gradle
    - PersonTest.java
- Groovy Libraries
- Gradle Dependencies
- Gradle DSLD support

build.gradle

```
apply plugin: 'java'

version = '1.0'

repositories {
    mavenCentral()
}

dependencies {
    compile "commons-collections:commons-collections:3.2"
    testCompile "junit:junit:4.8.2"
}
```

Console

<terminated> rules \_springJars [Gradle Build] Gradle Build on rules

Writable

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Wednesday, February 6, 13



# Demo

• Init Scripts



live-demos

testing-with-gradle

Project

init

java-standard

rules

sts-eclipse

test-with-failures

test-with-outofmemory

testing-with-gradle

.gradle

.settings

bin

build

gradle

src

.classpath

.gitignore

.project

build-1.gradle

build-2.gradle

build-3.gradle

build-4.gradle

build.gradle

README.md

.gitignore

live-demos.iml

live-demos.ipr

live-demos.iws

readme.txt

build.gradle

Groovy SDK is not configured for module 'live-demos' [Configure Groovy SDK...](#)

```
apply plugin: 'java'
apply from: '../helper-plugins/test-generator.gradle'

version = '1.0'

repositories {
    mavenCentral()
}

dependencies {
    compile group: 'commons-collections', name: 'commons-collect
    testCompile group: 'junit', name: 'junit', version: '4.7'
}
```

Structure

Nothing to show in the Structure...

6: TODO

Version Control

9: Changes

Event Log

9:18

UTF-8

Git: master

128M of 791M

Commander

Ant Build

Maven Projects

JetGradle



# Build Environment

Project specific gradle.properties

```
org.gradle.daemon=true  
org.gradle.java.home=/Library/Java/JavaVirtualMachines/  
1.7.0.jdk/Contents/Home  
org.gradle.jvmargs=-Xmx512M
```







# Ant Tasks

- ▶ Gradle provides an instance of the Groovy AntBuilder

```
ant.delete dir: 'someDir'
ant {
    ftp(server: "ftp.comp.org", userid: 'me', ...) {
        fileset(dir: "htdocs/manual") {
            include name: "**/*.html"
        }
        // high end
        myFileTree.addToAntBuilder(ant, 'fileset')
    }
    mkdir dir: 'someDir'
}
```



# Importing Ant Builds

```
<project>
  <target name="hello" depends="intro">
    <echo>Hello, from Ant</echo>
  </target>
</project>
```

```
ant.importBuild 'build.xml'
hello.doFirst { println 'Here comes Ant' }
task intro << { println 'Hello, from Gradle' }
```

```
>gradle hello
Hello, from Gradle
Here comes Ant
[ant:echo] Hello, from Ant
```



***ma*ven**





See the full presentation at:  
<http://www.youtube.com/watch?v=5a91dBLX8Qc>

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