

Gradle

- [Gradle User Guide \(https://docs.gradle.org/current/userguide/userguide_single.html#N10346\)](https://docs.gradle.org/current/userguide/userguide_single.html#N10346)

Gradle plugin

- <http://gradle.org/eclipse/>
- [가 . \(http://kwonnam.pe.kr/wiki/gradle\)](http://kwonnam.pe.kr/wiki/gradle)

Gradle

- <http://www.gradle.org/>
- <https://plugins.gradle.org/>
- [Maven](#) / [Build tool.](#)
- [Maven](#) [Gradle](#) [가](#) - [Maven](#) [Gradle](#)
- [Maven + Ant +](#) [AntBuilder](#)
- [Ant](#) , [가](#) .
- [Gradle Cookbook](#)
- [Building and testing with gradle](#)
- [Gradle](#)
- [Gradle - Evgeny Goldin](#)

- [GRADLE_HOME](#)
- [GRADLE_OPTS](#) [Gradle](#) [JVM](#)
- [GRADLE_USER_HOME](#) : [\\$HOME/.gradle.](#) [.jar](#) .
- [JAVA_OPTS](#) [JVM](#)
- [*.build](#)
 - [Java](#) [file.encoding](#) .
 - [UTF-8](#) [GRADLE_OPTS=-](#)
 - [Dfile.encoding=UTF-8](#)

```
export GRADLE_OPTS="-Dfile.encoding=UTF-8 -Xmx512m -XX:PermSize=64m -XX:MaxPermSize=256m"
```

- `${HOME}/.gradle/gradle.properties<code properties> org.gradle.daemon=true`

</code>

- Gradle
- 3 Gradle

- <http://stackoverflow.com/questions/12749225/where-to-put-gradle-configuration-i-e-credentials-that-should-not-be-committe>
- ~/.gradle/gradle.properties<code> mavenUser=admin mavenPassword=admin123</code>
- / <code groovy> uploadArchives { repositories { mavenDeployer { repository(url: "http://.../nexus/content/repositories/snapshots/") { authentication(userName: mavenUser, password: mavenPassword) } } } } </code>

build setup

- [BuildSetup Plugin](#)

- gradle init Gradle
.(setupBuild)

- Maven

- Java library (1.7)<code sh> gradle init -type java-library

-type basic .

- Project Types

- pom
- basic
- java-library
- groovy-library
- scala-library

- Project task

```
<code>
//
task initSrc << {
project.sourceSets*.allSource.srcDirTrees.flatten().dir.each {
dir ->
    dir.mkdirs()
}
}
```

- gradle "Task" .(Ant target, Maven phase)
- .

- `-q` : quiet. [Gradle Logging](#)
- `-X` :
- `--continue` :
- `-d` | `--debug` : Debug `stacktrace`
- - `dist` → `di`
 - `compileTest` → `cT`
- `-b` : `build.gradle` `settings.gradle`
- `-p` : `-b` `-p`
- `-P` = :
 - `project.get('my.property')`
 - `“my.property”` `project.get('my.property')`
- `--gui` : GUI
- `--recompile-scripts` : `build.gradle`
- `TERM=dumb` `Gradle` 가
- Task `help --task []` `<code sh> gradle help -task wrapper`
</code>

- `projects` :
- `tasks` :
 - `<code groovy> dist { description = 'group = ' } dist.description = ' dist.group = ' </code> * --all :`
`]dependencies : Root`
`-configuration runtime : runtime`
`]properties : Root`
`./build/reports/profile`
`* -m :`
 - `===== * Gradle Task`
`* build.gradle`
`<code groovy> task hello { doLast { println 'Hello world!' } }`
`task count « { 4.times { print "$it " } } </code>`
 - `task name(dependsOn: [task1, task2, ...])`
 - task “ ” ... `GString`
 - `<code groovy> task hello « { println 'Hello Earth' } hello.doFirst { println 'Hello Venus' } hello.doLast { println 'Hello Mars' } hello « { println 'Hello Jupiter' } </code>`
 - `< doLast` `doFirst/doLast` `doFirst`가
 - `doLast`가
 - Task Properties : `ext.` =
 - `<code groovy> defaultTasks 'clean', 'run'`

`task clean « { ... } task run « { ... } </code>`

* . 가

*

```
gradle.taskGraph.whenReady { taskGraph ->
    if (taskGraph.hasTask(release)) {
        // release
    } else {
        // release
    }
}
```

Java

java .

- [Gradle Java Plugin](#)
- [Gradle Dependencies](#)
- [Gradle Web Plugin](#)

DSL

- Groovy [Project](#) . Project
- Project project 가 .

Project

- project Project :
- name String :
- path String : Fully Qualified Name
- description String :
- projectDir File : 가
- buildDir File : projectDir/build .
- group Object : unspecified -
- version Object : unspecified -
- ant AntBuilder : [AntBuilder](#)

- : def . 가 .
- ext : 가 .
- ext <code groovy>

ext.javaVersion = '1.7' ext {

```
springVersion = '3.1.0.RELEASE'
emailNotification = 'build@master.org'
```

```
}
```

```

가 Key, 가
project.ext['keyname'] = 'value' task hello « { println "javaVersion : ${javaVersion}" println
"springVersion : ${springVersion}" println "emailNotification : ${emailNotification}" } </code>
===== * .gradle . *
. * --recompile-scripts
. ===== *
http://www.gradle.org/docs/current/userguide/tutorial\_this\_and\_that.html =====
===== *
가 . <code groovy> classesDir = new File('build/classes') task
resources « { classesDir.mkdirs() do something } task compile(dependsOn: 'resources') « {

```

```

if (classesDir.isDirectory()) {
    println '가 .'
}
// do something

```

```
} </code>
```

Gradle

- -D = 가 .
- gradle.properties 가 .
 - \$USERHOME/.gradle/gradle.properties * /gradle.properties
 - * \$USERHOME
 - project .
 - -P = project 가 .
 - ORGGRADLEPROJECT_ = project 가
 - org.gradle.project. = project
 - 가 .
 - gradle.properties systemProp.
 - gradle.properties

```

gradlePropertiesProp=gradlePropertiesValue
systemPropertiesProp=shouldBeOverWrittenBySystemProp
envPropertiesProp=shouldBeOverWrittenByEnvProp
systemProp.system=systemValue

```

- build.gradle

```

task printProps << {
    println commandLineProjectProp
    println gradlePropertiesProp
    println systemProjectProp
    println envProjectProp
}

```

```
println System.properties['system']
}
```

◦ <code>

```
gradle -q -PcommandLineProjectProp=commandLineProjectPropValue -
Dorg.gradle.project.systemProjectProp=systemPropertyValue printProps
```

c

```
ommandLineProjectPropValue gradlePropertiesValue systemPropertyValue
envPropertyValue systemValue </code>
```

- 가 .
- hasProperty('propertyName') .

*.gradle .

- build.gradle other.gradle .

```
apply from: 'other.gradle'
```

- other.gradle

```
println "configuring $project"
task hello << {
    println 'hello from other script'
}
```

-

```
> gradle -q hello
configuring root project 'configureProjectUsingScript'
hello from other script
```

configure .

- build.gradle

```
task configure << {
    pos = configure(new java.text.FieldPosition(10)) {
        beginIndex = 1
    }
}
```

```

        endIndex = 5
    }
    println pos.beginIndex
    println pos.endIndex
}

```

•

```

> gradle -q configure
1
5

```

• build.gradle

```

task configure << {
    pos = new java.text.FieldPosition(10)
    //
    apply from: 'other.gradle', to: pos
    println pos.beginIndex
    println pos.endIndex
}

```

• other.gradle

```

beginIndex = 1;
endIndex = 5;

```

•

```

> gradle -q configure
1
5

```

cache

Gradle
가

.
가 .

.gradle

--recompile-scripts

- [Gradle Task](#)
- [Gradle](#)

- [Gradle Ant](#)
- [Gradle Dependencies](#)
- [Gradle Build Lifecycle](#)
- [Gradle Multi Project](#)
- [Gradle Logging](#)
- [Gradle Daemon](#)
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- [Gradle Organizing Build Logic](#)
- [Gradle Custom Task](#)
- [Gradle Writing Custom Plugins](#)
- [Gradle Initialization Scripts](#)
- [Gradle Wrapper](#)
- [Maven](#) [Gradle](#)
- [Gradle](#) [JPA2 MetaModel](#)

Plugins

- [Gradle Plugins](#)
- [Gradle Java Plugin](#)
- [Gradle Web Plugin](#)
- [Gradle Jetty Plugin](#)
- [Gradle Tomcat Plugin](#)
- [Gradle Eclipse Plugin](#)
- [Gradle Groovy Plugin](#)
- [Gradle Report Plugin](#)
- [Gradle Javascript Plugin](#)

- [Gradle Goodness: Using Objects for Version](#)

- [Android](#)

From:
<http://moro.kr/> - **Various Ways**

Permanent link:
<http://moro.kr/open/gradle>

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