



Apache Groovy

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Thanks!


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Agenda

- Introduction
 - Where Groovy used
 - Where to start
 - Groovy SDK
 - Experience with demo
 - Where can we apply
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WWW

What

- Agile and dynamic language for the Java Virtual Machine
- Powerful by combining OO capabilities with scripting

Why

- Fast learning curve for Java developer
- Integrates smoothly with Java platform

Where

- Scripting on top of the Java (app/container) underneath
- DSL where domain logic is fluid

Where Groovy Used

- Jenkins – Continuous Integration
- Camunda – Work Flow
- Apache Camel, Mule – Enterprise Integration

Script Task "Is Document Review Required?"

General

Id: ScriptTask_DocumentReviewRequired

Name: Is Document Review Required?

Script Language: groovy

Script:

```
// Access this variable through execution api to avoid exception if var not defined
// documentReviewRequired = RecordsReview works as well but throws exception if var not defined
documentReviewRequired = execution.getVariable("RecordsReview")
```

Asynchronous: ☐ More information on asynchronous continuation can be found in the [user guide](#).

Retry Time Cycle:

Retry interval in ISO 8601 format (e.g. "R3/PT10M" for "3 cycles, every 10 minutes")

Build

- ☐ Execute shell
- ☐ Execute Windows batch command
- ☐ Invoke Ant
- ☐ Invoke top-level Maven targets
- ☐ Execute Groovy script
- ☒ Execute system Groovy script

Groovy command

```
println "These projects don't delete old builds:"
for(p in hudson.model.Hudson.instance.projects) {
    if(p.logRotator == null) println("  "+p);
}
```

Where to start?

RES

- <http://groovy-lang.org>
- <http://www.vogella.com/tutorials/Groovy/article.html>

IDE

- Your favorite IDE - <http://groovy-lang.org/ides.html>
- Or just notepad 😊

TRY

- <https://groovyconsole.appspot.com/>

Groovy SDK

Commands to run groovy program

- groovyc
- groovy
- groovysh
- groovyConsole

Demo using

- online editor
- command line
- Eclipse


Features & Demo

Groovy automatically imports the following packages and classes which can be used in Groovy without specifying the package name.

- `groovy.lang.*`
- `groovy.util.*`
- `java.lang.*`
- `java.util.*`
- `java.net.*`
- `java.io.*`
- `java.math.BigInteger`
- `java.math.BigDecimal`

Features & Demo

Features and behaviors of Groovy

- Coding convention (for less typing)
 - Auto type conversion
 - GString
 - Working with collection
 - Working with I/O
 - Working with XML
 - Working with JSON
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Features & Demo

Interesting features of Groovy

- Java Integration
- Grape – runtime dependency resolver
- Dynamic method registration

Thank You!
