

Groovy Academy



Fabian Förster

- Seit 1998 Entwickler
 - E-Post (seit ...)
- Schwerpunkt Java & Groovy
- Speaker by: Groovy ...

Sven Ehmann

- Seit 2003 Entwickler
 - Electric Paper
 - Brands4Friends (eBay)
 - E-Post (seit 10.2013)
- Schwerpunkt: Java & Scala & Groovy
- Meetup: "Agile Developer Berlin"



- Goals
- "Was wollen wir nicht"
- Tools & Frameworks (Vorstellung & Übung)
 - GVM
 - Gradle
 - Lazybones, Ratpack
- Groovy Koans (Coding Session)
- Battleship (Coding Session)



- Mit Gradle ein Groovy Projekt aufsetzen
- Grundkenntnisse in Groovy
 - Sprachfeatures: JSON, Collections, ...
- Grundkenntnisse in Ratpack
 - Handler, Modul-Binding, ...
- Web-App Battleship
- Testen mit Spock



"Was wollen wir nicht"

- Bashing
 Java8 <> Groovy <> Scala
- Bashing
 Play <> Ratpack
- Groovy: optional typed and dynamic



GVM is a command line tool for managing parallel Versions of multiple Software Development Kits on most Unix based systems.

Quelle: http://gvmtool.net/



- GVM install curl -s get.gvmtool.net | bash
- Gradle install gvm install gradle gvm list gradle

See all possible versions, current installed version and as default set version

gvm install gradle 2.2
gvm use gradle 2.2
switch the candidate version for the current shell only.
gvm default gradle 2.2
switch permanent to version
gvm uninstall gradle 2.2

Quelle: http://gvmtool.net/



Other helpfull GVM commands:
 gvm current
 To see what is currently in use for all candidates
 gvm help

• GVM uninstall rm -rf ~./gvm remove from ~/.bashrc, ~/.profile and ~/.zshrc

#THIS MUST BE AT THE END OF THE FILE FOR GVM TO WORK!!!
[[-s "/home/sven/.gvm/bin/gvm-init.sh"]] && source "/home/sven/.gvm/bin/gvm-init.sh"

Quelle: http://gvmtool.net/



What is Gradle?

A very flexible general purpose build tool like

- powerful support for multi-project builds
- powerful dependency management
- full support of existing Maven or Ivy repository
- Groovy build scripts

Gradle install

- Download binary only distribution: http://gradle.org/gradle-download/
- Unpacking
- export GRADLE_HOME to the path that you unpack binary and add GRADLE_HOME/bin to your PATH variable
- check install by: gradle -v
- additional options can be set within GRADLE_OPTS

- run gradle
- run gradle tasks
 display the "default" tasks of every gradle project, e.g. init & wrapper
- create build.gradle script by gradle init
 with task hugo << { println 'hugo task running' }
 run gradle -q hugo
- -q suppress Gradle's log messages
- Build script are (Groovy) code!
- Add task boss { println "I'm the boss" }
 run gradle -q
 change task boss: task boss << { println "I'm the boss" }
 run gradle -q
 all tasks without << operator run by default
- define default tasks, executed if no other tasks are specified defaultTasks 'hugo', 'boss'

Quelle: https://docs.gradle.org/current/userguide/tutorial_using_tasks.html

Gradle - Build script are (Groovy) code!

Live Coding (use the -b option to select another build file)

```
task upper << {
    String someString = 'my_nAMe';
    println "Original: $someString";
    println "Upper case: ${someString.toUpperCase()}"
}
task intro( dependsOn: count ) << { println 'I\'m Gradle' }
task count << { 4.times { print " $it " } }</pre>
```

- Lazy dependency
 The dependency of task X to task Y is declared before task Y is defined.
 Means, task must not be in ordering.
- Dynamic Tasks

```
4.times { counter ->
    task "dynamicTask$counter" << {
       println 'I\'m dynamic task number $counter' }
    };
dynamicTask0.dependsOn dynamicTask2,dynamicTask3</pre>
```

Quelle: https://docs.gradle.org/current/userguide/tutorial_using_tasks.html

The Gradle Wrapper is the preferred way of starting a Gradle build. When you start a Gradle build via the wrapper, Gradle will be automatically downloaded and used to run the build.

- The wrapper should checked into version control.
- Anyone can work, without needing to install Gradle beforehand
- Wrapper guaranteed to use the version of Gradle that the build was designed to work with

Daemon

It is strongly recommended that the Gradle Daemon be enabled on all developer machines.

- add org.gradle.daemon=true to the GRADLE_HOME/gradle.properties file

Quelle: https://docs.gradle.org/current/userguide/gradle_wrapper.html https://docs.gradle.org/2.5/userguide/gradle_daemon.html



• IDEA

Quelle: https://docs.gradle.org/current/userguide/idea_plugin.html



Simple, lean & powerful library to build HTTP apps. Built on Java and the Netty event-driven networking engine. The API is optimized for Groovy and Java 8.

Quelle: https://github.com/ratpack/ratpack



GVM

http://gvmtool.net/

Gradle(Wrapper)

https://docs.gradle.org/current/userguide

https://docs.gradle.org/current/userguide/gradle_wrapper.html

Groovy

http://groovy-lang.org/

http://groovy-lang.org/documentation.html



Ratpack

http://ratpack.io

https://github.com/ratpack/hands-on-ratpack

https://github.com/ratpack/example-ratpack-gradle-groovy-app

https://github.com/ratpack

Ratpack with Lazybones

https://github.com/pledbrook/lazybones

http://ratpack.io/manual/current/quick-start.html#using_lazybones_project_templates

Angular

https://angularjs.de/artikel/angularjs-tutorial-deutsch

http://campus.codeschool.com/courses/shaping-up-with-angular-js/contents



Danke