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Groovy...

- is an agile and **dynamic language** for the **Java Virtual Machine**
- builds upon the strengths of Java but has **additional power features** inspired by languages like Python, Ruby and Smalltalk
- makes **modern programming features** available to Java developers with **almost-zero learning curve**
- provides the ability to **statically type check** and **statically compile** your code for robustness and performance
- supports **Domain-Specific Languages** and other compact syntax so your code becomes **easy to read and maintain**
- makes writing shell and build scripts easy with its **powerful processing primitives**, OO abilities and an Ant DSL
- increases developer productivity by **reducing scaffolding code** when developing web, GUI, database or console applications
- **simplifies testing** by supporting unit testing and mocking out-of-the-box
- seamlessly **integrates with all existing Java classes and libraries**
- compiles straight to Java bytecode so you can use it anywhere you can use Java

Experience Groovy 2.3



Groovy 2.3 is the latest **major** and **stable version** of the popular alternative language for the JVM.

In this [new release](#), Groovy features:

- official support for **running Groovy on JDK 8**
- **traits**, as a new object oriented way of composing behavior in your classes
- new and improved AST transformations like **@TailRecursive**, **@Builder** and **@Sortable**
- a new **NIO2 module** with Path support
- **lightening fast JSON** parsing and building
- **closure parameter type inference**
- a new **markup template engine**
- Groovysh and GroovyConsole ease of use improvements
- a new **GroovyAssert** test utility
- more **@BaseScript** class capabilities, and more.



Deprecating the wiki

We are slowly migrating documentation from the wiki to a new website. It is recommended that you [read the new documentation first](#), and fall back to the wiki if you can't find what you were looking for.

"Groovy is like a super version of Java. It can leverage Java's enterprise capabilities but also has cool productivity features like closures, builders and dynamic typing. If you are a developer, tester or script guru, you have to love Groovy."



Samples

A simple hello world script:

```
def name='World'; println "Hello $name!"
```

A more sophisticated version using Object Orientation:

```
class Greet {
    def name
    Greet(who) { name = who[0].toUpperCase() +
                  who[1..-1] }
    def salute() { println "Hello $name!" }
}

g = new Greet('world') // create object
g.salute()              // output "Hello World!"
```

Leveraging existing Java libraries:

```
import static org.apache.commons.lang.WordUtils.*

class Greeter extends Greet {
    Greeter(who) { name = capitalize(who) }
}

new Greeter('world').salute()
```

On the command line:

```
groovy -e "println 'Hello ' + args[0]" World
```

Partners

Bintray from JFrog hosts our downloads and oss.jfrog.org or our snapshots



JetBrains give us licenses for TeamCity, our CI server, and IntelliJ IDEA

Latest news [\[more\]](#)



Groovy 2.3.0 is out

Guillaume Laforge posted on May 05, 2014

The Groovy development team is proud to announce the **final release of Groovy 2.3.0!**

Groovy 2.3 is the new major release of Groovy, featuring official **support for running Groovy on JDK 8, traits**, new and improved AST transformations like **@TailRecursive**, **@Builder** and **@Sortable**, a new **NIO2 module** with Path support, **lightening fast JSON** parsing and building, **closure parameter type inference**, a new **markup template engine**, **Groovysh** and **GroovyConsole ease of use improvements**, a new **GroovyAssert** test utility, more **@BaseScript** class capabilities, and more.

Please read the [Groovy 2.3.0 release notes](#) for further details on all these exciting new features!

You can [download Groovy](#) at the usual location.

JIRA will give you the [detailed change log](#) for this release.

Groovy wouldn't be what it is without your support, your bug reports and feature requests, your contributions and pull requests, so **big thanks to all those who contributed to this release** in a way or another, including the usual suspects of the core team (Jochen, Paul, Cédric and myself), but also André, Andres, Tim, Pascal, Johannes, Paolo, Thibault, Rick and Andrey, Jim (base script class), Damien, Kenneth and several others I've forgotten to mention!