

# GROOVY

## EFFICIENT, DYNAMIC, VERSATILE OPEN-SOURCE PROGRAMMING LANGUAGE



Groovy is an open-source programming and scripting language which extends Java and supports dynamic and static types. It introduces productivity-increasing and other popular features from modern interpreted languages such as Python, Ruby or Smalltalk seamlessly to the Java world. It is noteworthy that Groovy was the first language after Java that was standardized for the Java Virtual Machine (JVM). Groovy is often used next to Java to implement parts of an application in a more simplified way or directly as the main language of the application. Its level of maturity as well as the very active community make Groovy a very solid choice time and time again.

### ADVANTAGES OF GROOVY

- Concise, expressive, brief and easy-to-read syntax. The result is a reduction in the amount of program code, hence reducing the probability for bugs and improving ease of maintenance
- Excellent and seamless interaction with Java in both directions
- Native template engine and syntax for maps, lists, type conversion and many more
- Efficiently used in the financial sector given the simple handling of BigDecimal and BigInteger
- Uses operator overloading
- Use as dynamic language that is also scriptable

In contrast to other scripting languages, Groovy is not interpreted at run-time but directly translated into Java byte-code. Because of this, it can be used as a dynamic language for the JVM. Groovy is syntactically far-off from Java and shares more similarities with Ruby or Python.

### AERIS EXPERTISE – APPLICATIONS & ARCHITECTURES

- Business rule engine
- Continuous integration pipelines
- User-defined conversion of IoT raw data
- Scripting for automatic deployments

### WHY GO IS SO VALUABLE TO AERIS' CLIENTS

- Reliability, security and performance of our applications
- Easy integration into existing Java applications
- Quality of the source code
- Integration with CI/CD tools for automatic testing, build jobs and deployment of software
- Knowledge transfer to the development teams of our clients - the flat learning curve allows for a fast transfer of skills