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# Gradle

<https://gradle.org/>

Gradle Build Tool - Accelerate developer productivity. Gradle helps teams build, automate and deliver better software, faster.

Snippet from [Wikipedia](#): **Gradle**

**Gradle** is a build automation tool for multi-language software development. It controls the development process in the tasks of compilation and packaging to testing, deployment, and publishing. Supported languages include Java (as well as Kotlin, Groovy, Scala), C/C++, and JavaScript. Gradle builds on the concepts of Apache Ant and Apache Maven, and introduces a Groovy- and Kotlin-based domain-specific language contrasted with the XML-based project configuration used by Maven. Gradle uses a directed acyclic graph to determine the order in which tasks can be run, through providing dependency management. It runs on the Java Virtual Machine.

Gradle was designed for multi-project builds, which can grow to be large. It operates based on a series of build tasks that can run serially or in parallel. Incremental builds are supported by determining the parts of the build tree that are already up to date; any task dependent only on those parts does not need to be re-executed. It also supports caching of build components, potentially across a shared network using the Gradle Build Cache. It produces web-based build visualization called Gradle Build Scans. The software is extensible for new features and programming languages with a plugin subsystem.

Gradle is distributed as Free Software under the Apache License 2.0, and was first released in 2008.

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## GitHub Topics

- <https://github.com/topics/gradle>

Gradle is a build tool with a focus on build automation and support for multi-language development. If you are building, testing, publishing, and deploying software on any platform, Gradle offers a flexible model that can support the entire development lifecycle from compiling and packaging code to publishing web sites.

[tool](#), [programming](#), [ci](#), [release](#), [devopscreate](#), [devopsrelease](#)

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