

# Gradle Fundamentals

## Introduction



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# Introduction

- Ant and Maven as build tools
- Install Gradle
- Writing a simple build file
- Using the Gradle wrapper
- Incremental builds

# What Is Gradle?

- Build by convention
- Groovy DSL
- Supports dependencies
  - Ivy and Maven
- Supports multi-project builds
- Easily customizable

# What Is Gradle?

- Declarative Build Language
  - Expresses Intent
  - Maintainable

# Ant

- XML Build Script
  - Hard to read
  - Difficult to maintain

# Maven

- XML Build Script
  - Same issues as Ant, but...
- Supports dependencies
- Something of a standard

# Installing Gradle

- From the web site
  - <http://gradle.org>
- Using gvm
  - Groovy enVironment Manager
  - <http://gvmtool.net/>

# Groovy Environment Manager

- Get from gvmtool.net
- Download with
  - `curl -s get.gvmtool.net | bash`
- Add to the path
- Install Gradle
  - `gvm install gradle`



# Gradle Builds

- Gradle has a build file
  - Typically build.gradle
- This contains tasks
  - And plugins
  - And dependencies
  - But mostly tasks