Docs

[User Manual](http://docs.google.com/userguide/userguide.html)

[Guides and Tutorials](https://guides.gradle.org)

[DSL Reference](http://docs.google.com/dsl/)

[Javadoc](http://docs.google.com/javadoc/)

[Release Notes](http://docs.google.com/release-notes.html)

[Forums](https://discuss.gradle.org/)

[Training](https://gradle.org/training/)

[Try Gradle Enterprise](https://gradle.com/enterprise)

[PDF](http://docs.google.com/userguide/userguide.pdf)

* [User Manual Home](http://docs.google.com/userguide/userguide.html)
* [Release Notes](http://docs.google.com/release-notes.html)
* [Installing Gradle](http://docs.google.com/userguide/installation.html)
* [Tutorials](https://guides.gradle.org/)

### Reference

* [Groovy DSL Reference](http://docs.google.com/dsl/)
* [Gradle API Javadoc](http://docs.google.com/javadoc/)
* [Core Plugins](http://docs.google.com/userguide/plugin_reference.html)
* [Gradle & Third-party Tools](http://docs.google.com/userguide/third_party_integration.html)

### Getting Started

* [Creating New Gradle Builds](https://guides.gradle.org/creating-new-gradle-builds/)
* [Creating Build Scans](https://guides.gradle.org/creating-build-scans/)
* [Migrating From Maven](https://guides.gradle.org/migrating-from-maven/)

### Running Gradle Builds

* [Command-Line Interface](http://docs.google.com/userguide/command_line_interface.html)
* [Customizing Execution](#gjdgxs)
  + [Configuring the Build Environment](http://docs.google.com/userguide/build_environment.html)
  + [Configuring the Gradle Daemon](http://docs.google.com/userguide/gradle_daemon.html)
  + [Initialization Scripts](http://docs.google.com/userguide/init_scripts.html)
* [Directory Layout](http://docs.google.com/userguide/directory_layout.html)
* [Executing Multi-Project Builds](http://docs.google.com/userguide/intro_multi_project_builds.html)
* [Gradle Wrapper](http://docs.google.com/userguide/gradle_wrapper.html)
* [Troubleshooting](http://docs.google.com/userguide/troubleshooting.html)
* [Using Build Scans](https://docs.gradle.com/build-scan-plugin)
* [Enabling and Configuring the Build Cache](http://docs.google.com/userguide/build_cache.html)
* [Integrating Separate Gradle Builds (Composite Builds)](http://docs.google.com/userguide/composite_builds.html)

### Authoring Gradle Builds

* [Fundamentals](#30j0zll)
  + [Introducing the Basics of Build Scripts](http://docs.google.com/userguide/tutorial_using_tasks.html)
  + [Working with Tasks](http://docs.google.com/userguide/more_about_tasks.html)
  + [Learning More About Build Scripts](http://docs.google.com/userguide/writing_build_scripts.html)
  + [Working with Files](http://docs.google.com/userguide/working_with_files.html)
  + [Creating Custom Task Types](http://docs.google.com/userguide/custom_tasks.html)
  + [Using Gradle Plugins](http://docs.google.com/userguide/plugins.html)
  + [The Standard Gradle Plugins](http://docs.google.com/userguide/standard_plugins.html)
  + [Understanding the Build Lifecycle](http://docs.google.com/userguide/build_lifecycle.html)
  + [Working with Logging](http://docs.google.com/userguide/logging.html)
  + [Configuring Multi-Project Builds](http://docs.google.com/userguide/multi_project_builds.html)
* [Best Practices](#1fob9te)
  + [Authoring Maintainable Build Scripts](http://docs.google.com/userguide/authoring_maintainable_build_scripts.html)
  + [Organizing Gradle Projects](http://docs.google.com/userguide/organizing_gradle_projects.html)
  + [Optimizing Build Performance](https://guides.gradle.org/performance/)
  + [Using the Build Cache](https://guides.gradle.org/using-build-cache/)
* [Dependency Management](#3znysh7)
  + [Introduction to Dependency Management](http://docs.google.com/userguide/introduction_dependency_management.html)
  + [Dependency Management Terminology](http://docs.google.com/userguide/dependency_management_terminology.html)
  + [Dependency Types](http://docs.google.com/userguide/dependency_types.html)
  + [Repository Types](http://docs.google.com/userguide/repository_types.html)
  + [Declaring Dependencies](http://docs.google.com/userguide/declaring_dependencies.html)
  + [Declaring Repositories](http://docs.google.com/userguide/declaring_repositories.html)
  + [Inspecting Dependencies](http://docs.google.com/userguide/inspecting_dependencies.html)
  + [Managing Dependency Configurations](http://docs.google.com/userguide/managing_dependency_configurations.html)
  + [Managing Transitive Dependencies](http://docs.google.com/userguide/managing_transitive_dependencies.html)
  + [Dependency Locking](http://docs.google.com/userguide/dependency_locking.html)
  + [Troubleshooting Dependency Resolution](http://docs.google.com/userguide/troubleshooting_dependency_resolution.html)
  + [Customizing Dependency Resolution Behavior](http://docs.google.com/userguide/customizing_dependency_resolution_behavior.html)
  + [Dependency Cache Internals](http://docs.google.com/userguide/dependency_cache.html)
  + [Working with Dependencies](http://docs.google.com/userguide/working_with_dependencies.html)
* [Publishing Artifacts](http://docs.google.com/userguide/artifact_management.html)
* [C++ Projects](#2et92p0)
  + [Building Native Software](http://docs.google.com/userguide/native_software.html)
  + [Software Model Concepts](http://docs.google.com/userguide/software_model_concepts.html)
  + [Rule-based Model Configuration](http://docs.google.com/userguide/software_model.html)
  + [Implementing Model Rules in a Plugin](http://docs.google.com/userguide/rule_source.html)
  + [Extending the Software Model](http://docs.google.com/userguide/software_model_extend.html)
* [Java Projects](#tyjcwt)
  + [Building Java & JVM projects](http://docs.google.com/userguide/building_java_projects.html)
  + [Testing Java & JVM projects](http://docs.google.com/userguide/java_testing.html)
* [Advanced Techniques](#3dy6vkm)
  + [Configuring Tasks Lazily](http://docs.google.com/userguide/lazy_configuration.html)
  + [Developing Parallel Tasks](https://guides.gradle.org/using-the-worker-api/)
  + [Testing Your Build with TestKit](http://docs.google.com/userguide/test_kit.html)
  + [Using Ant from Gradle](http://docs.google.com/userguide/ant.html)
* [Sample Gradle builds](#1t3h5sf)
  + [Groovy DSL Samples](https://github.com/gradle/gradle/tree/master/subprojects/docs/src/samples)
  + [Kotlin DSL Samples](https://github.com/gradle/kotlin-dsl/tree/master/samples)

### Extending Gradle

* [Writing Custom Plugins](http://docs.google.com/userguide/custom_plugins.html)
* [Plugin Development Guides](https://gradle.org/guides/?q=Plugin+Development)

[Edit this page](https://github.com/gradle/gradle/edit/master/subprojects/docs/src/docs/userguide/)

# The PMD Plugin

Contents

[Usage](#4d34og8)

[Tasks](#2s8eyo1)

[Dependency management](#17dp8vu)

[Configuration](#3rdcrjn)

The PMD plugin performs quality checks on your project’s Java source files using [PMD](http://pmd.sourceforge.net) and generates reports from these checks.

[Usage](#4d34og8)

To use the PMD plugin, include the following in your build script:

[Example: Using the PMD plugin](#26in1rg)

**build.gradle**

apply plugin: 'pmd'

The plugin adds a number of tasks to the project that perform the quality checks. You can execute the checks by running gradle check.

Note that PMD will run with the same Java version used to run Gradle.

[Tasks](#2s8eyo1)

The PMD plugin adds the following tasks to the project:

pmdMain — [Pmd](http://docs.google.com/dsl/org.gradle.api.plugins.quality.Pmd.html)

Runs PMD against the production Java source files.

pmdTest — [Pmd](http://docs.google.com/dsl/org.gradle.api.plugins.quality.Pmd.html)

Runs PMD against the test Java source files.

pmd*SourceSet* — [Pmd](http://docs.google.com/dsl/org.gradle.api.plugins.quality.Pmd.html)

Runs PMD against the given source set’s Java source files.

The PMD plugin adds the following dependencies to tasks defined by the Java plugin.

Table 1. PMD plugin - additional task dependencies

| **Task name** | **Depends on** |
| --- | --- |
| check | All PMD tasks, including pmdMain and pmdTest. |

[Dependency management](#17dp8vu)

The PMD plugin adds the following dependency configurations:

Table 2. PMD plugin - dependency configurations

| **Name** | **Meaning** |
| --- | --- |
| pmd | The PMD libraries to use |

[Configuration](#3rdcrjn)

See the [PmdExtension](http://docs.google.com/dsl/org.gradle.api.plugins.quality.PmdExtension.html) class in the API documentation.

Docs

* [User Manual](http://docs.google.com/userguide/userguide.html)
* [DSL Reference](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
* [Javadoc](http://docs.google.com/javadoc/)

News

* [Blog](https://blog.gradle.org/)
* [Newsletter](https://newsletter.gradle.com/)
* [Twitter](https://twitter.com/gradle)

Products

* [Build Scans](https://gradle.com/build-scans)
* [Build Cache](https://gradle.com/build-cache)
* [Enterprise Docs](https://gradle.com/enterprise/resources)

Get Help

* [Forums](https://discuss.gradle.org/c/help-discuss)
* [GitHub](https://github.com/gradle/)
* [Training](https://gradle.org/training/)
* [Services](https://gradle.org/services/)

Subscribe for important Gradle updates and news

Subscribe

By entering your email, you agree to our [Terms](https://gradle.org/terms/) and [Privacy Policy](https://gradle.org/privacy/), including receipt of emails. You can unsubscribe at any time.

© [Gradle Inc.](https://gradle.com) 2018 All rights reserved.

[Careers](https://gradle.com/careers) | [Privacy](https://gradle.org/privacy) | [Terms of Service](https://gradle.org/terms) | [Contact](https://gradle.org/contact/)