4.10.1

* 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)
* [User Manual Home](http://docs.google.com/userguide/userguide.html)
* [DSL Reference Home](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
  + [Properties](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#N23350)
  + [Methods](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#N233EC)

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* [artifacts { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:artifacts(groovy.lang.Closure))
* [buildscript { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:buildscript(groovy.lang.Closure))
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* [sourceSets { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:sourceSets(groovy.lang.Closure))
* [subprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:subprojects(groovy.lang.Closure))
* [publishing { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:publishing(groovy.lang.Closure))

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* [Task](http://docs.google.com/org.gradle.api.Task.html)
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* [IncludedBuild](http://docs.google.com/org.gradle.api.initialization.IncludedBuild.html)
* [Script](http://docs.google.com/org.gradle.api.Script.html)
* [JavaToolChain](http://docs.google.com/org.gradle.jvm.toolchain.JavaToolChain.html)
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* [ComponentSelectionRules](http://docs.google.com/org.gradle.api.artifacts.ComponentSelectionRules.html)
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* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
* [PluginDependenciesSpec](http://docs.google.com/org.gradle.plugin.use.PluginDependenciesSpec.html)
* [PluginDependencySpec](http://docs.google.com/org.gradle.plugin.use.PluginDependencySpec.html)
* [PluginManagementSpec](http://docs.google.com/org.gradle.plugin.management.PluginManagementSpec.html)
* [ResourceHandler](http://docs.google.com/org.gradle.api.resources.ResourceHandler.html)
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* [IvyModuleDescriptorDescription](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorDescription.html)
* [MavenPublication](http://docs.google.com/org.gradle.api.publish.maven.MavenPublication.html)
* [MavenArtifact](http://docs.google.com/org.gradle.api.publish.maven.MavenArtifact.html)
* [MavenArtifactSet](http://docs.google.com/org.gradle.api.publish.maven.MavenArtifactSet.html)
* [MavenPom](http://docs.google.com/org.gradle.api.publish.maven.MavenPom.html)
* [MavenPomCiManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomCiManagement.html)
* [MavenPomContributor](http://docs.google.com/org.gradle.api.publish.maven.MavenPomContributor.html)
* [MavenPomContributorSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomContributorSpec.html)
* [MavenPomDeveloper](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloper.html)
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* [MavenPomDistributionManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDistributionManagement.html)
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* [DependencyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyReportTask.html)
* [DependencyInsightReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyInsightReportTask.html)
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* [CodeNarc](http://docs.google.com/org.gradle.api.plugins.quality.CodeNarc.html)
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* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
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* [EclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseProject.html)
* [EclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseClasspath.html)
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* [GenerateEclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseClasspath.html)
* [GenerateEclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseJdt.html)
* [GenerateEclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpComponent.html)
* [GenerateEclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpFacet.html)
* [GenerateIdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaModule.html)
* [GenerateIdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaProject.html)
* [GenerateIdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaWorkspace.html)

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* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
* [NativeComponentSpec](http://docs.google.com/org.gradle.nativeplatform.NativeComponentSpec.html)
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* [NativeTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteSpec.html)
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* [GoogleTestTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteBinarySpec.html)
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* [ObjectiveCppCompile](http://docs.google.com/org.gradle.language.objectivecpp.tasks.ObjectiveCppCompile.html)
* [WindowsResourceCompile](http://docs.google.com/org.gradle.language.rc.tasks.WindowsResourceCompile.html)
* [LinkExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkExecutable.html)
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GroovyCompileOptions

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| --- | --- |

Compilation options to be passed to the Groovy compiler.

Properties

| Property | Description |
| --- | --- |
| [configurationScript](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:configurationScript) | A Groovy script file that configures the compiler, allowing extensive control over how the code is compiled. |
| [encoding](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:encoding) | Tells the source encoding. Defaults to UTF-8. |
| [failOnError](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:failOnError) | Tells whether the compilation task should fail if compile errors occurred. Defaults to true. |
| [fileExtensions](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:fileExtensions) | The list of acceptable source file extensions. Only takes effect when compiling against Groovy 1.7 or higher. Defaults to ImmutableList.of("java", "groovy"). |
| [fork](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:fork) | Tells whether to run the Groovy compiler in a separate process. Defaults to true. |
| [forkOptions](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:forkOptions) | Returns options for running the Groovy compiler in a separate process. These options only take effect if fork is set to true. |
| [javaAnnotationProcessing](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:javaAnnotationProcessing) | Whether the Groovy code should be subject to Java annotation processing. |
| [keepStubs](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:keepStubs) | Tells whether Java stubs for Groovy classes generated during Java/Groovy joint compilation should be kept after compilation has completed. Useful for joint compilation debugging purposes. Defaults to false. |
| [listFiles](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:listFiles) | Tells whether to print which source files are to be compiled. Defaults to false. |
| [optimizationOptions](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:optimizationOptions) | Returns optimization options for the Groovy compiler. Allowed values for an option are true and false. Only takes effect when compiling against Groovy 1.8 or higher. |
| [stubDir](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:stubDir) | The directory where Java stubs for Groovy classes will be stored during Java/Groovy joint compilation. Defaults to null, in which case a temporary directory will be used. |
| [verbose](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:verbose) | Tells whether to turn on verbose output. Defaults to false. |

Methods

| Method | Description |
| --- | --- |
| [fork](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompileOptions.html#org.gradle.api.tasks.compile.GroovyCompileOptions:fork(java.util.Map))(forkArgs) | Convenience method to set [GroovyForkOptions](http://docs.google.com/javadoc/org/gradle/api/tasks/compile/GroovyForkOptions.html) with named parameter syntax. Calling this method will set fork to true. |

Script blocks

No script blocks

Property details

[**File**](http://download.oracle.com/javase/8/docs/api/java/io/File.html) configurationScript

A Groovy script file that configures the compiler, allowing extensive control over how the code is compiled.

The script is executed as Groovy code, with the following context:

* The instance of [CompilerConfiguration](http://docs.groovy-lang.org/latest/html/gapi/org/codehaus/groovy/control/CompilerConfiguration.html) available as the configuration variable.
* All static members of [CompilerCustomizationBuilder](http://docs.groovy-lang.org/latest/html/gapi/org/codehaus/groovy/control/customizers/builder/CompilerCustomizationBuilder.html) pre imported.

This facilitates the following pattern:

withConfig(configuration) {  
 // use compiler configuration DSL here  
}

For example, to activate type checking for all Groovy classes…

import groovy.transform.TypeChecked  
  
withConfig(configuration) {  
 ast(TypeChecked)  
}

Please see [the Groovy compiler customization builder documentation](http://docs.groovy-lang.org/latest/html/documentation/#compilation-customizers) for more information about the compiler configuration DSL.

*This feature is only available if compiling with Groovy 2.1 or later.*

Default:null

[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) encoding

Tells the source encoding. Defaults to UTF-8.

Default:UTF-8

boolean failOnError

Tells whether the compilation task should fail if compile errors occurred. Defaults to true.

Default:true

[**List**](http://download.oracle.com/javase/8/docs/api/java/util/List.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html)> fileExtensions

The list of acceptable source file extensions. Only takes effect when compiling against Groovy 1.7 or higher. Defaults to ImmutableList.of("java", "groovy").

Default:["java", "groovy"]

boolean fork

Tells whether to run the Groovy compiler in a separate process. Defaults to true.

Default:true

[**GroovyForkOptions**](http://docs.google.com/javadoc/org/gradle/api/tasks/compile/GroovyForkOptions.html) forkOptions

Returns options for running the Groovy compiler in a separate process. These options only take effect if fork is set to true.

boolean javaAnnotationProcessing

Whether the Groovy code should be subject to Java annotation processing.

Annotation processing of Groovy code works by having annotation processors visit the Java stubs generated by the Groovy compiler in order to support joint compilation of Groovy and Java source.

When set to true, stubs will be unconditionally generated for all Groovy sources, and Java annotations processors will be executed on those stubs.

When this option is set to false (the default), Groovy code will not be subject to annotation processing, but any joint compiled Java code will be. If the compiler argument "-proc:none" was specified as part of the Java compile options, the value of this flag will be ignored. No annotation processing will be performed regardless, on Java or Groovy source.

Default:false

boolean keepStubs

Tells whether Java stubs for Groovy classes generated during Java/Groovy joint compilation should be kept after compilation has completed. Useful for joint compilation debugging purposes. Defaults to false.

Default:false

boolean listFiles

Tells whether to print which source files are to be compiled. Defaults to false.

Default:false

[**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), [**Boolean**](http://download.oracle.com/javase/8/docs/api/java/lang/Boolean.html)> optimizationOptions

Returns optimization options for the Groovy compiler. Allowed values for an option are true and false. Only takes effect when compiling against Groovy 1.8 or higher.

Known options are:

indy Use the invokedynamic bytecode instruction. Requires JDK7 or higher and Groovy 2.0 or higher. Disabled by default. int Optimize operations on primitive types (e.g. integers). Enabled by default. all Enable or disable all optimizations. Note that some optimizations might be mutually exclusive.

Default:[:]

[**File**](http://download.oracle.com/javase/8/docs/api/java/io/File.html) stubDir

The directory where Java stubs for Groovy classes will be stored during Java/Groovy joint compilation. Defaults to null, in which case a temporary directory will be used.

Default:null

boolean verbose

Tells whether to turn on verbose output. Defaults to false.

Default:false

Method details

[**GroovyCompileOptions**](http://docs.google.com/dsl/org.gradle.api.tasks.compile.GroovyCompileOptions.html) fork([**Map**](http://download.oracle.com/javase/8/docs/api/java/util/Map.html)<[**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html), [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html)> forkArgs)

Convenience method to set [GroovyForkOptions](http://docs.google.com/javadoc/org/gradle/api/tasks/compile/GroovyForkOptions.html) with named parameter syntax. Calling this method will set fork to true.

**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/)

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