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.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E2B2)
  + [Methods](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E2FA)

### Build script blocks

* [allprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:allprojects(groovy.lang.Closure))
* [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))
* [configurations { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:configurations(groovy.lang.Closure))
* [dependencies { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:dependencies(groovy.lang.Closure))
* [repositories { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:repositories(groovy.lang.Closure))
* [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))

### Core types

* [Project](http://docs.google.com/org.gradle.api.Project.html)
* [Task](http://docs.google.com/org.gradle.api.Task.html)
* [Gradle](http://docs.google.com/org.gradle.api.invocation.Gradle.html)
* [Settings](http://docs.google.com/org.gradle.api.initialization.Settings.html)
* [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)
* [SourceSet](http://docs.google.com/org.gradle.api.tasks.SourceSet.html)
* [SourceSetOutput](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html)
* [SourceDirectorySet](http://docs.google.com/org.gradle.api.file.SourceDirectorySet.html)
* [IncrementalTaskInputs](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html)
* [Configuration](http://docs.google.com/org.gradle.api.artifacts.Configuration.html)
* [ResolutionStrategy](http://docs.google.com/org.gradle.api.artifacts.ResolutionStrategy.html)
* [ArtifactResolutionQuery](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html)
* [ComponentSelection](http://docs.google.com/org.gradle.api.artifacts.ComponentSelection.html)
* [ComponentSelectionRules](http://docs.google.com/org.gradle.api.artifacts.ComponentSelectionRules.html)
* [ExtensionAware](http://docs.google.com/org.gradle.api.plugins.ExtensionAware.html)
* [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)
* [TextResourceFactory](http://docs.google.com/org.gradle.api.resources.TextResourceFactory.html)

### Publishing types

* [PublishingExtension](http://docs.google.com/org.gradle.api.publish.PublishingExtension.html)
* [IvyPublication](http://docs.google.com/org.gradle.api.publish.ivy.IvyPublication.html)
* [IvyArtifact](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifact.html)
* [IvyArtifactSet](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifactSet.html)
* [IvyModuleDescriptorSpec](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorSpec.html)
* [IvyModuleDescriptorAuthor](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorAuthor.html)
* [IvyModuleDescriptorLicense](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorLicense.html)
* [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)
* [MavenPomDeveloperSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloperSpec.html)
* [MavenPomDistributionManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDistributionManagement.html)
* [MavenPomIssueManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomIssueManagement.html)
* [MavenPomLicense](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicense.html)
* [MavenPomLicenseSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicenseSpec.html)
* [MavenPomMailingList](http://docs.google.com/org.gradle.api.publish.maven.MavenPomMailingList.html)
* [MavenPomMailingListSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomMailingListSpec.html)
* [MavenPomOrganization](http://docs.google.com/org.gradle.api.publish.maven.MavenPomOrganization.html)
* [MavenPomRelocation](http://docs.google.com/org.gradle.api.publish.maven.MavenPomRelocation.html)
* [MavenPomScm](http://docs.google.com/org.gradle.api.publish.maven.MavenPomScm.html)

### Container types

* [TaskContainer](http://docs.google.com/org.gradle.api.tasks.TaskContainer.html)
* [ConfigurationContainer](http://docs.google.com/org.gradle.api.artifacts.ConfigurationContainer.html)
* [RepositoryHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.RepositoryHandler.html)
* [DependencyHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.DependencyHandler.html)
* [ArtifactHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.ArtifactHandler.html)

### Build Cache types

* [BuildCacheConfiguration](http://docs.google.com/org.gradle.caching.configuration.BuildCacheConfiguration.html)
* [DirectoryBuildCache](http://docs.google.com/org.gradle.caching.local.DirectoryBuildCache.html)
* [HttpBuildCache](http://docs.google.com/org.gradle.caching.http.HttpBuildCache.html)

### Input Normalization types

* [InputNormalizationHandler](http://docs.google.com/org.gradle.normalization.InputNormalizationHandler.html)
* [InputNormalization](http://docs.google.com/org.gradle.normalization.InputNormalization.html)
* [RuntimeClasspathNormalization](http://docs.google.com/org.gradle.normalization.RuntimeClasspathNormalization.html)

### Help Task types

* [TaskReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.TaskReportTask.html)
* [ProjectReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.ProjectReportTask.html)
* [DependencyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyReportTask.html)
* [DependencyInsightReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyInsightReportTask.html)
* [PropertyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.PropertyReportTask.html)
* [ComponentReport](http://docs.google.com/org.gradle.api.reporting.components.ComponentReport.html)
* [DependentComponentsReport](http://docs.google.com/org.gradle.api.reporting.dependents.DependentComponentsReport.html)
* [ModelReport](http://docs.google.com/org.gradle.api.reporting.model.ModelReport.html)

### Task types

* [AntlrTask](http://docs.google.com/org.gradle.api.plugins.antlr.AntlrTask.html)
* [BuildEnvironmentReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.BuildEnvironmentReportTask.html)
* [Checkstyle](http://docs.google.com/org.gradle.api.plugins.quality.Checkstyle.html)
* [CodeNarc](http://docs.google.com/org.gradle.api.plugins.quality.CodeNarc.html)
* [CompareGradleBuilds](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html)
* [Copy](http://docs.google.com/org.gradle.api.tasks.Copy.html)
* [CreateStartScripts](http://docs.google.com/org.gradle.jvm.application.tasks.CreateStartScripts.html)
* [Delete](http://docs.google.com/org.gradle.api.tasks.Delete.html)
* [Ear](http://docs.google.com/org.gradle.plugins.ear.Ear.html)
* [Exec](http://docs.google.com/org.gradle.api.tasks.Exec.html)
* [FindBugs](http://docs.google.com/org.gradle.api.plugins.quality.FindBugs.html)
* [GenerateIvyDescriptor](http://docs.google.com/org.gradle.api.publish.ivy.tasks.GenerateIvyDescriptor.html)
* [GenerateMavenPom](http://docs.google.com/org.gradle.api.publish.maven.tasks.GenerateMavenPom.html)
* [GenerateBuildDashboard](http://docs.google.com/org.gradle.api.reporting.GenerateBuildDashboard.html)
* [GradleBuild](http://docs.google.com/org.gradle.api.tasks.GradleBuild.html)
* [GroovyCompile](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompile.html)
* [Groovydoc](http://docs.google.com/org.gradle.api.tasks.javadoc.Groovydoc.html)
* [HtmlDependencyReportTask](http://docs.google.com/org.gradle.api.reporting.dependencies.HtmlDependencyReportTask.html)
* [JacocoReport](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoReport.html)
* [JacocoMerge](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoMerge.html)
* [JacocoCoverageVerification](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoCoverageVerification.html)
* [Jar](http://docs.google.com/org.gradle.api.tasks.bundling.Jar.html)
* [JavaCompile](http://docs.google.com/org.gradle.api.tasks.compile.JavaCompile.html)
* [Javadoc](http://docs.google.com/org.gradle.api.tasks.javadoc.Javadoc.html)
* [JavaExec](http://docs.google.com/org.gradle.api.tasks.JavaExec.html)
* [JDepend](http://docs.google.com/org.gradle.api.plugins.quality.JDepend.html)
* [Pmd](http://docs.google.com/org.gradle.api.plugins.quality.Pmd.html)
* [PublishToIvyRepository](http://docs.google.com/org.gradle.api.publish.ivy.tasks.PublishToIvyRepository.html)
* [PublishToMavenRepository](http://docs.google.com/org.gradle.api.publish.maven.tasks.PublishToMavenRepository.html)
* [ScalaCompile](http://docs.google.com/org.gradle.api.tasks.scala.ScalaCompile.html)
* [ScalaDoc](http://docs.google.com/org.gradle.api.tasks.scala.ScalaDoc.html)
* [InitBuild](http://docs.google.com/org.gradle.buildinit.tasks.InitBuild.html)
* [Sign](http://docs.google.com/org.gradle.plugins.signing.Sign.html)
* [Sync](http://docs.google.com/org.gradle.api.tasks.Sync.html)
* [Tar](http://docs.google.com/org.gradle.api.tasks.bundling.Tar.html)
* [AbstractTestTask](http://docs.google.com/org.gradle.api.tasks.testing.AbstractTestTask.html)
* [Test](http://docs.google.com/org.gradle.api.tasks.testing.Test.html)
* [TestReport](http://docs.google.com/org.gradle.api.tasks.testing.TestReport.html)
* [Upload](http://docs.google.com/org.gradle.api.tasks.Upload.html)
* [War](http://docs.google.com/org.gradle.api.tasks.bundling.War.html)
* [Wrapper](http://docs.google.com/org.gradle.api.tasks.wrapper.Wrapper.html)
* [WriteProperties](http://docs.google.com/org.gradle.api.tasks.WriteProperties.html)
* [Zip](http://docs.google.com/org.gradle.api.tasks.bundling.Zip.html)

### Reporting types

* [CustomizableHtmlReport](http://docs.google.com/org.gradle.api.reporting.CustomizableHtmlReport.html)
* [SingleFileReport](http://docs.google.com/org.gradle.api.reporting.SingleFileReport.html)
* [DirectoryReport](http://docs.google.com/org.gradle.api.reporting.DirectoryReport.html)
* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
* [Report](http://docs.google.com/org.gradle.api.reporting.Report.html)
* [Reporting](http://docs.google.com/org.gradle.api.reporting.Reporting.html)
* [ReportContainer](http://docs.google.com/org.gradle.api.reporting.ReportContainer.html)
* [ReportingExtension](http://docs.google.com/org.gradle.api.reporting.ReportingExtension.html)

### Eclipse/IDEA model types

* [EclipseModel](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseModel.html)
* [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)
* [EclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseJdt.html)
* [EclipseWtp](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtp.html)
* [EclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtpComponent.html)
* [EclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtpFacet.html)
* [IdeaModel](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModel.html)
* [IdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaProject.html)
* [IdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModule.html)
* [IdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaWorkspace.html)
* [XmlFileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.XmlFileContentMerger.html)
* [FileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.FileContentMerger.html)

### Eclipse/IDEA task types

* [GenerateEclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseProject.html)
* [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)

### Native software types

* [PrebuiltLibrary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltLibrary.html)
* [PrebuiltSharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltSharedLibraryBinary.html)
* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
* [NativeComponentSpec](http://docs.google.com/org.gradle.nativeplatform.NativeComponentSpec.html)
* [NativeExecutableSpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableSpec.html)
* [NativeLibrarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeLibrarySpec.html)
* [NativeTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteSpec.html)
* [CUnitTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteSpec.html)
* [GoogleTestTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteSpec.html)
* [NativeBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeBinarySpec.html)
* [NativeExecutableBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableBinarySpec.html)
* [NativeLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeLibraryBinarySpec.html)
* [SharedLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.SharedLibraryBinarySpec.html)
* [StaticLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.StaticLibraryBinarySpec.html)
* [NativeTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteBinarySpec.html)
* [CUnitTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteBinarySpec.html)
* [GoogleTestTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteBinarySpec.html)
* [NativePlatform](http://docs.google.com/org.gradle.nativeplatform.platform.NativePlatform.html)
* [BuildType](http://docs.google.com/org.gradle.nativeplatform.BuildType.html)
* [Flavor](http://docs.google.com/org.gradle.nativeplatform.Flavor.html)
* [Gcc](http://docs.google.com/org.gradle.nativeplatform.toolchain.Gcc.html)
* [Clang](http://docs.google.com/org.gradle.nativeplatform.toolchain.Clang.html)
* [VisualCpp](http://docs.google.com/org.gradle.nativeplatform.toolchain.VisualCpp.html)
* [AssemblerSourceSet](http://docs.google.com/org.gradle.language.assembler.AssemblerSourceSet.html)
* [CSourceSet](http://docs.google.com/org.gradle.language.c.CSourceSet.html)
* [CppSourceSet](http://docs.google.com/org.gradle.language.cpp.CppSourceSet.html)
* [ObjectiveCSourceSet](http://docs.google.com/org.gradle.language.objectivec.ObjectiveCSourceSet.html)
* [ObjectiveCppSourceSet](http://docs.google.com/org.gradle.language.objectivecpp.ObjectiveCppSourceSet.html)
* [WindowsResourceSet](http://docs.google.com/org.gradle.language.rc.WindowsResourceSet.html)
* [VisualStudioProject](http://docs.google.com/org.gradle.ide.visualstudio.VisualStudioProject.html)
* [VisualStudioSolution](http://docs.google.com/org.gradle.ide.visualstudio.VisualStudioSolution.html)
* [NativeExecutable](http://docs.google.com/org.gradle.nativeplatform.NativeExecutable.html)
* [NativeLibrary](http://docs.google.com/org.gradle.nativeplatform.NativeLibrary.html)
* [NativeBinary](http://docs.google.com/org.gradle.nativeplatform.NativeBinary.html)
* [NativeExecutableBinary](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableBinary.html)
* [SharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.SharedLibraryBinary.html)
* [StaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.StaticLibraryBinary.html)

### Native component task types

* [CppCompile](http://docs.google.com/org.gradle.language.cpp.tasks.CppCompile.html)
* [CCompile](http://docs.google.com/org.gradle.language.c.tasks.CCompile.html)
* [Assemble](http://docs.google.com/org.gradle.language.assembler.tasks.Assemble.html)
* [ObjectiveCCompile](http://docs.google.com/org.gradle.language.objectivec.tasks.ObjectiveCCompile.html)
* [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)
* [LinkSharedLibrary](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkSharedLibrary.html)
* [CreateStaticLibrary](http://docs.google.com/org.gradle.nativeplatform.tasks.CreateStaticLibrary.html)
* [InstallExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.InstallExecutable.html)
* [RunTestExecutable](http://docs.google.com/org.gradle.nativeplatform.test.tasks.RunTestExecutable.html)

CompareGradleBuilds

**Table of Contents**

[Properties](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E2B2)[Methods](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E2FA)[Script blocks](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E31E)[Property details](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E323)[Method details](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#N1E39A)

| API Documentation: | [CompareGradleBuilds](http://docs.google.com/javadoc/org/gradle/api/plugins/buildcomparison/gradle/CompareGradleBuilds.html) |
| --- | --- |

Note: This class is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Executes two Gradle builds (that can be the same build) with specified versions and compares the outcomes. Please see the “Comparing Builds” chapter of the Gradle User Guide for more information.

Properties

| Property | Description |
| --- | --- |
| [ignoreFailures](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:ignoreFailures) | Incubating  Whether a comparison between non identical builds will fail the task execution. |
| [reportDir](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:reportDir) | Incubating  The directory that will contain the HTML comparison report and any other report files. |
| [sourceBuild](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:sourceBuild) | Incubating  The specification of how to invoke the source build. Defaults to [Project.getRootDir()](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:rootDir) with the current Gradle version and the tasks “clean assemble”. The projectDir must be the project directory of the root project if this is a multi project build. |
| [targetBuild](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:targetBuild) | Incubating  The specification of how to invoke the target build. Defaults to [Project.getRootDir()](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:rootDir) with the current Gradle version and the tasks “clean assemble”. The projectDir must be the project directory of the root project if this is a multi project build. |

Methods

| Method | Description |
| --- | --- |
| [sourceBuild](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:sourceBuild(org.gradle.api.Action))(config) | Incubating  Configures the source build. A Groovy closure can be used as the action. |
| [targetBuild](http://docs.google.com/org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds.html#org.gradle.api.plugins.buildcomparison.gradle.CompareGradleBuilds:targetBuild(org.gradle.api.Action))(config) | Incubating  Configures the target build. A Groovy closure can be used as the action. |

Script blocks

No script blocks

Property details

boolean ignoreFailures

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Whether a comparison between non identical builds will fail the task execution.

Default with compare-gradle-builds plugin:false

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

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The directory that will contain the HTML comparison report and any other report files.

Default with compare-gradle-builds plugin:${project.reporting.file(this.name)}

[**GradleBuildInvocationSpec**](http://docs.google.com/dsl/org.gradle.api.plugins.buildcomparison.gradle.GradleBuildInvocationSpec.html) sourceBuild (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The specification of how to invoke the source build. Defaults to [Project.getRootDir()](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:rootDir) with the current Gradle version and the tasks “clean assemble”. The projectDir must be the project directory of the root project if this is a multi project build.

[**GradleBuildInvocationSpec**](http://docs.google.com/dsl/org.gradle.api.plugins.buildcomparison.gradle.GradleBuildInvocationSpec.html) targetBuild (read-only)

Note: This property is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

The specification of how to invoke the target build. Defaults to [Project.getRootDir()](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:rootDir) with the current Gradle version and the tasks “clean assemble”. The projectDir must be the project directory of the root project if this is a multi project build.

Method details

void sourceBuild([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<[**GradleBuildInvocationSpec**](http://docs.google.com/dsl/org.gradle.api.plugins.buildcomparison.gradle.GradleBuildInvocationSpec.html)> config)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Configures the source build. A Groovy closure can be used as the action.

sourceBuild {  
 gradleVersion = "1.1"  
}

void targetBuild([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<[**GradleBuildInvocationSpec**](http://docs.google.com/dsl/org.gradle.api.plugins.buildcomparison.gradle.GradleBuildInvocationSpec.html)> config)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Configures the target build. A Groovy closure can be used as the action.

targetBuild {  
 gradleVersion = "1.1"  
}

**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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