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)
  + [Methods](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#N1ACBF)

### 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))

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* [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)
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* [IncrementalTaskInputs](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html)
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* [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)

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

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* [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)
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* [GroovyCompile](http://docs.google.com/org.gradle.api.tasks.compile.GroovyCompile.html)
* [Groovydoc](http://docs.google.com/org.gradle.api.tasks.javadoc.Groovydoc.html)
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* [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)
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* [Upload](http://docs.google.com/org.gradle.api.tasks.Upload.html)
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* [Zip](http://docs.google.com/org.gradle.api.tasks.bundling.Zip.html)

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* [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)

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* [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)
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* [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)
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* [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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* [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)
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* [GoogleTestTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteSpec.html)
* [NativeBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeBinarySpec.html)
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* [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)
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* [BuildType](http://docs.google.com/org.gradle.nativeplatform.BuildType.html)
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* [CSourceSet](http://docs.google.com/org.gradle.language.c.CSourceSet.html)
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### 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)
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* [LinkExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkExecutable.html)
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ArtifactResolutionQuery

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| API Documentation: | [ArtifactResolutionQuery](http://docs.google.com/javadoc/org/gradle/api/artifacts/query/ArtifactResolutionQuery.html) |
| --- | --- |

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

A builder to construct a query that can resolve selected software artifacts of the specified components.

apply plugin: 'java'  
  
task resolveCompileSources {  
 doLast {  
 def componentIds = configurations.compile.incoming.resolutionResult.allDependencies.collect { it.selected.id }  
  
 def result = dependencies.createArtifactResolutionQuery()  
 .forComponents(componentIds)  
 .withArtifacts(JvmLibrary, SourcesArtifact, JavadocArtifact)  
 .execute()  
  
 for (component in result.resolvedComponents) {  
 component.getArtifacts(SourcesArtifact).each { println "Source artifact for ${component.id}: ${it.file}" }  
 }  
 }  
}

Properties

No properties

Methods

| Method | Description |
| --- | --- |
| [execute](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:execute())() | Incubating  Actually execute the query, returning a query result. Note that [ArtifactResolutionQuery.withArtifacts(java.lang.Class, java.lang.Class[])](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:withArtifacts(java.lang.Class,%20java.lang.Class%5B%5D)) must be called before executing the query. |
| [forComponents](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:forComponents(java.lang.Iterable))(componentIds) | Incubating  Specifies the set of components to include in the result. |
| [forComponents](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:forComponents(org.gradle.api.artifacts.component.ComponentIdentifier%5B%5D))(componentIds) | Incubating  Specifies the set of components to include in the result. |
| [forModule](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:forModule(java.lang.String,%20java.lang.String,%20java.lang.String))(group, name, version) | Incubating  Specifies a module component to include in the result using its GAV coordinates. |
| [withArtifacts](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:withArtifacts(java.lang.Class,%20java.lang.Class%5B%5D))(componentType, artifactTypes) | Incubating  Defines the type of component that is expected in the result, and the artifacts to retrieve for components of this type. Presently, only a single component type and set of artifacts is permitted. |
| [withArtifacts](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:withArtifacts(java.lang.Class,%20java.util.Collection))(componentType, artifactTypes) | Incubating  Defines the type of component that is expected in the result, and the artifacts to retrieve for components of this type. Presently, only a single component type and set of artifacts is permitted. |

Script blocks

No script blocks

Method details

[**ArtifactResolutionResult**](http://docs.google.com/javadoc/org/gradle/api/artifacts/result/ArtifactResolutionResult.html) execute()

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

Actually execute the query, returning a query result. Note that [ArtifactResolutionQuery.withArtifacts(java.lang.Class, java.lang.Class[])](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html#org.gradle.api.artifacts.query.ArtifactResolutionQuery:withArtifacts(java.lang.Class,%20java.lang.Class%5B%5D)) must be called before executing the query.

[**ArtifactResolutionQuery**](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html) forComponents([**Iterable**](http://download.oracle.com/javase/8/docs/api/java/lang/Iterable.html)<? extends [**ComponentIdentifier**](http://docs.google.com/javadoc/org/gradle/api/artifacts/component/ComponentIdentifier.html)> componentIds)

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

Specifies the set of components to include in the result.

[**ArtifactResolutionQuery**](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html) forComponents([**ComponentIdentifier**](http://docs.google.com/javadoc/org/gradle/api/artifacts/component/ComponentIdentifier.html)... componentIds)

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

Specifies the set of components to include in the result.

[**ArtifactResolutionQuery**](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html) forModule([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) group, [**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) version)

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

Specifies a module component to include in the result using its GAV coordinates.

[**ArtifactResolutionQuery**](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html) withArtifacts([**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**Component**](http://docs.google.com/javadoc/org/gradle/api/component/Component.html)> componentType, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**Artifact**](http://docs.google.com/javadoc/org/gradle/api/component/Artifact.html)>... artifactTypes)

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

Defines the type of component that is expected in the result, and the artifacts to retrieve for components of this type. Presently, only a single component type and set of artifacts is permitted.

[**ArtifactResolutionQuery**](http://docs.google.com/dsl/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html) withArtifacts([**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**Component**](http://docs.google.com/javadoc/org/gradle/api/component/Component.html)> componentType, [**Collection**](http://download.oracle.com/javase/8/docs/api/java/util/Collection.html)<[**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**Artifact**](http://docs.google.com/javadoc/org/gradle/api/component/Artifact.html)>> artifactTypes)

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

Defines the type of component that is expected in the result, and the artifacts to retrieve for components of this type. Presently, only a single component type and set of artifacts is permitted.

**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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