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.incremental.IncrementalTaskInputs.html#N1A142)
  + [Methods](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#N1A15C)

### 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)
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* [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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* [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)
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* [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)
* [MavenPomIssueManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomIssueManagement.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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* [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)

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* [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)
* [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)
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* [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)

### 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)
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* [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)
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* [ScalaCompile](http://docs.google.com/org.gradle.api.tasks.scala.ScalaCompile.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)
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* [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)
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* [Zip](http://docs.google.com/org.gradle.api.tasks.bundling.Zip.html)

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* [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)

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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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* [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)
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### 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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* [PrebuiltSharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltSharedLibraryBinary.html)
* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
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* [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)
* [NativePlatform](http://docs.google.com/org.gradle.nativeplatform.platform.NativePlatform.html)
* [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)
* [CppSourceSet](http://docs.google.com/org.gradle.language.cpp.CppSourceSet.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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* [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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IncrementalTaskInputs

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| API Documentation: | [IncrementalTaskInputs](http://docs.google.com/javadoc/org/gradle/api/tasks/incremental/IncrementalTaskInputs.html) |
| --- | --- |

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

Provides access to any input files that need to be processed by an incremental task.

An incremental task action is one that accepts a single [IncrementalTaskInputs](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html) parameter. The task can then provide an action to execute for all input files that are out of date with respect to the previous execution of the task, and a separate action for all input files that have been removed since the previous execution.

class IncrementalReverseTask extends DefaultTask {  
 @InputDirectory  
 def File inputDir  
  
 @OutputDirectory  
 def File outputDir  
  
 @TaskAction  
 void execute(IncrementalTaskInputs inputs) {  
 if (!inputs.incremental)  
 project.delete(outputDir.listFiles())  
  
 inputs.outOfDate { change ->  
 def targetFile = project.file("$outputDir/${change.file.name}")  
 targetFile.text = change.file.text.reverse()  
 }  
  
 inputs.removed { change ->  
 def targetFile = project.file("$outputDir/${change.file.name}")  
 if (targetFile.exists()) {  
 targetFile.delete()  
 }  
 }  
 }  
 }

In the case where Gradle is unable to determine which input files need to be reprocessed, then all of the input files will be reported as [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)). Cases where this occurs include:

* There is no history available from a previous execution.
* An [TaskOutputs.upToDateWhen(groovy.lang.Closure)](http://docs.google.com/javadoc/org/gradle/api/tasks/TaskOutputs.html#upToDateWhen-groovy.lang.Closure-) criteria added to the task returns false.
* An [Input](http://docs.google.com/javadoc/org/gradle/api/tasks/Input.html) property has changed since the previous execution.
* One or more output files have changed since the previous execution.

Note that this is a stateful API:

* [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)) and [IncrementalTaskInputs.removed(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:removed(org.gradle.api.Action)) can each only be executed a single time per [IncrementalTaskInputs](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html) instance.
* [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)) must be executed before [IncrementalTaskInputs.removed(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:removed(org.gradle.api.Action)) is called.

Properties

| Property | Description |
| --- | --- |
| [incremental](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:incremental) | Incubating  Indicates if it was possible for Gradle to determine which exactly input files were out of date compared to a previous execution. This is *not* possible in the case of no previous execution, changed input properties, output files, etc. |

Methods

| Method | Description |
| --- | --- |
| [outOfDate](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action))(outOfDateAction) | Incubating  Executes the action for all of the input files that are out-of-date since the previous task execution. The action may also be supplied as a [Closure](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html). |
| [removed](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:removed(org.gradle.api.Action))(removedAction) | Incubating  Executes the action for all of the input files that were removed since the previous task execution. The action may also be supplied as a [Closure](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html). |

Script blocks

No script blocks

Property details

boolean incremental (read-only)

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

Indicates if it was possible for Gradle to determine which exactly input files were out of date compared to a previous execution. This is *not* possible in the case of no previous execution, changed input properties, output files, etc.

When true:

* Any input file that has been added or modified since previous execution will be considered 'out-of-date' and reported to [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)).
* Any input files that has been removed since previous execution will be reported to [IncrementalTaskInputs.removed(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:removed(org.gradle.api.Action)).

When false:

* Every input file will be considered to be 'out-of-date' and will be reported to [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)).
* No input files will be reported to [IncrementalTaskInputs.removed(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:removed(org.gradle.api.Action)).

Method details

void outOfDate([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**InputFileDetails**](http://docs.google.com/javadoc/org/gradle/api/tasks/incremental/InputFileDetails.html)> outOfDateAction)

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

Executes the action for all of the input files that are out-of-date since the previous task execution. The action may also be supplied as a [Closure](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html).

* When [IncrementalTaskInputs.isIncremental()](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:incremental) == true, the action will be executed for any added or modified input file.
* When [IncrementalTaskInputs.isIncremental()](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:incremental) == false, the action will be executed for every input file for the task.

This method may only be called a single time for a single [IncrementalTaskInputs](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html) instance.

void removed([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**InputFileDetails**](http://docs.google.com/javadoc/org/gradle/api/tasks/incremental/InputFileDetails.html)> removedAction)

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

Executes the action for all of the input files that were removed since the previous task execution. The action may also be supplied as a [Closure](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html).

* When [IncrementalTaskInputs.isIncremental()](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:incremental) == true, the action will be executed for any removed input file.
* When [IncrementalTaskInputs.isIncremental()](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:incremental) == false, the action will not be executed.

This method may only be called a single time for a single [IncrementalTaskInputs](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html) instance.

This method may only be called after [IncrementalTaskInputs.outOfDate(org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html#org.gradle.api.tasks.incremental.IncrementalTaskInputs:outOfDate(org.gradle.api.Action)) has been called.

**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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