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/)  
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* [Forums](https://discuss.gradle.org/)
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* [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/)
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  + [Methods](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#N19FEF)

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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))
* [configurations { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:configurations(groovy.lang.Closure))
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* [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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* [Script](http://docs.google.com/org.gradle.api.Script.html)
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* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
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* [ResourceHandler](http://docs.google.com/org.gradle.api.resources.ResourceHandler.html)
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* [MavenPomDeveloper](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloper.html)
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* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
* [Report](http://docs.google.com/org.gradle.api.reporting.Report.html)
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* [EclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseClasspath.html)
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* [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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* [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)
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* [NativeTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteSpec.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)
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* [CppSourceSet](http://docs.google.com/org.gradle.language.cpp.CppSourceSet.html)
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### Native component task types

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* [Assemble](http://docs.google.com/org.gradle.language.assembler.tasks.Assemble.html)
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SourceSetOutput

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

A collection of all output directories (compiled classes, processed resources, etc.) - notice that [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html) extends [FileCollection](http://docs.google.com/javadoc/org/gradle/api/file/FileCollection.html).

Provides output information of the source set. Allows configuring the default output dirs and specify additional output dirs.

apply plugin: 'java'  
  
sourceSets {  
 main {  
 //if you truly want to override the defaults:  
 output.resourcesDir = file('out/bin')  
 // Compiled Java classes should use this directory  
 java.outputDir = file('out/bin')  
 }  
}

Working with generated resources.

In general, we recommend generating resources into folders different than the regular resourcesDir and classesDir. Usually, it makes the build easier to understand and maintain. Also it gives some additional benefits because other Gradle plugins can take advantage of the output dirs 'registered' in the SourceSet.output. For example: Java plugin will use those dirs in calculating class paths and for jarring the content; IDEA and Eclipse plugins will put those folders on relevant classpath.

An example how to work with generated resources:

apply plugin: 'java'  
  
def generatedResources = "$buildDir/generated-resources/main"  
  
sourceSets {  
 main {  
 //let's register an output folder on the main SourceSet:  
 output.dir(generatedResources, builtBy: 'generateMyResources')  
 //it is now a part of the 'main' classpath and will be a part of the jar  
 }  
}  
  
//a task that generates the resources:  
task generateMyResources {  
 doLast {  
 def generated = new File(generatedResources, "myGeneratedResource.properties")  
 generated.text = "message=Stay happy!"  
 }  
}  
  
//Java plugin task 'classes' and 'testClasses' will automatically depend on relevant tasks registered with 'builtBy'  
  
//Eclipse/IDEA plugins will automatically depend on 'generateMyResources'  
//because the output dir was registered with 'builtBy' information  
apply plugin: 'idea'; apply plugin: 'eclipse'

Find more information in [SourceSetOutput.dir(java.util.Map, java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:dir(java.util.Map,%20java.lang.Object)) and [SourceSetOutput.getDirs()](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:getDirs())

Properties

| Property | Description |
| --- | --- |
| [classesDir](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:classesDir) | Deprecated  The directory to assemble the compiled classes into. |
| [classesDirs](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:classesDirs) | The directories containing compiled classes. |
| [resourcesDir](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:resourcesDir) | The output directory for resources |

Methods

| Method | Description |
| --- | --- |
| [dir](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:dir(java.lang.Object))(dir) | Registers an extra output dir. Useful for generated resources. |
| [dir](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:dir(java.util.Map,%20java.lang.Object))(options, dir) | Registers an extra output dir and the builtBy information. Useful for generated resources. |
| [getDirs](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html#org.gradle.api.tasks.SourceSetOutput:getDirs())() | Returns all dirs registered with #dir method. Each file is resolved as [Project.file(java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:file(java.lang.Object)) |

Script blocks

No script blocks

Property details

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

Note: This property is [deprecated](http://docs.google.com/userguide/feature_lifecycle.html) and will be removed in the next major version of Gradle.

The directory to assemble the compiled classes into.

See example at [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html)

Default with java plugin:First directory from classesDirs

[**FileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/FileCollection.html) classesDirs (read-only)

The directories containing compiled classes.

Default with java plugin:a file collection of each *${project.buildDir}*/classes/*${sourceDirectorySet.name}*/*${sourceSet.name}*

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

The output directory for resources

See example at [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html)

Default with java plugin:*${project.buildDir}*/classes/*${sourceSet.name}*

Method details

void dir([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) dir)

Registers an extra output dir. Useful for generated resources.

See example at [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html)

void dir([**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)> options, [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) dir)

Registers an extra output dir and the builtBy information. Useful for generated resources.

See example at [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html)

[**FileCollection**](http://docs.google.com/javadoc/org/gradle/api/file/FileCollection.html) getDirs()

Returns all dirs registered with #dir method. Each file is resolved as [Project.file(java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.Project.html#org.gradle.api.Project:file(java.lang.Object))

See example at [SourceSetOutput](http://docs.google.com/dsl/org.gradle.api.tasks.SourceSetOutput.html)

**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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