GradleFx Documentation

Release 0.8.3

GradleFx

January 06, 2015

1	Where to start	3
2	Basic Setup 2.1 Requirements	5 5 5 5 6
3	Flex/AIR SDK Auto Install 3.1 Overview 3.2 Dependency types 3.3 Apache Flex SDK dependencies	7 7 7 8
4	Properties/Conventions 4.1 Standard Properties	9 11 12 17
5	The state of the s	19 19 19
6	Tasks 6.1 Overview	21 21 22
7	AIR 7.1 Project type	23 23 23 23 24
8	8.4 Tasks	25 25 25 26 27
9	FlexUnit	29

	9.1	Setting up testing in GradleFx	
	9.2	Running the tests	
	9.3	Skipping the tests	
	9.4	Customization	30
10	Html	Wrapper	33
	10.1	Usage	33
11	AsDo	oc	35
	11.1	How to use it	35
12	Local	lization	37
13	IDE I	Plugin	39
	13.1	Sub-plugins	39
		FlashBuilder plugin	
		IDEA Intellij plugin	
14	Temp	plates Plugin	41
		Overview	41
		Sub-plugins	
		Scaffold plugin	
15	Indic	es and tables	43

Contents:

Contents 1

2 Contents

Where to start

- 1. GradleFx is based on Gradle, so if you're completely new to Gradle start by going through their documentation: http://www.gradle.org/documentation
 - This documentation will give you a good overview of Gradle's features and some essential concepts which you'll need to get started with GradleFx.
- 2. Once you have a good comprehension of Gradle, start going through the rest of the GradleFx documentation. This will save you some time afterwards.
- 3. After all this, we have a set of sample projects for each kind of project. These will show you how to use the GradleFx properties and implement certain mechanisms. These can be found here https://github.com/GradleFx/GradleFx-Examples
- 4. If you still have some questions, feedback, or having a problem while creating your build script, please let us know on our support forum: http://support.gradlefx.org/
- 5. Found a bug while implementing your build script? Log it here: https://github.com/GradleFx/GradleFx/issues

Basic Setup

2.1 Requirements

- Gradle v1.6
- Minimum Flex 4.x

2.2 Using the plugin in your project

To use the plugin in your project, you'll have to add the following to your build.gradle file:

```
buildscript {
    repositories {
        mavenCentral()
    }
    dependencies {
        classpath group: 'org.gradlefx', name: 'gradlefx', version: '0.8.3'
    }
}
apply plugin: 'gradlefx'
```

Make sure that the buildscript structure is at the top of your build file.

2.3 Setting up the Flex/Air SDK

GradleFx gives you several options to specify the Flex/AIR SDK:

- 1. set the FLEX_HOME environment variable (convention), this should point to your Flex/AIR SDK installation.
- 2. set the flexHome convention property to the location of your Flex/AIR SDK

```
flexHome = "C:/my/path/to/the/flex/sdk"
```

3. specify the Flex/AIR SDK as a dependency. See Flex/AIR SDK Auto Install

2.4 Defining the project type

Every project should define its type, this can be one of the following:

swc: a library project of which the sources will be packaged into a swc file

swf: a Flex web project of which the sources will be packaged into a swf file.

air: a Flex web project of which the sources will be packaged into a air file.

mobile: a Flex mobile project of which the sources will be packaged into an apk or ipa file.

example project type definition:

```
type = 'swc'
```

Flex/AIR SDK Auto Install

GradleFx gives you the option to automatically download and install the Flex/AIR SDK. You can do this by specifying either of them as a dependency. This mechanism supports both the Adobe and the Apache Flex SDK.

3.1 Overview

When you specify the SDK's you'll always have to use a packaged SDK. The supported archive formats are zip, tar.gz and tbz2.

What basically happens when you declare the dependency is this:

- 1. GradleFx will determine the install location of the SDK. By convention it will create an SDK specific directory in the %GRADLE_USER_HOME%/gradlefx/sdks directory. The name of the SDK specific directory is a hash of the downloaded sdk archive location.
- 2. When the SDK isn't yet installed GradleFx will install it.
- 3. Once installed it will assign the install location to the flexHome convention property.

GradleFx will always install the AIR SDK in the same directory as the Flex SDK.

Note: A sample project which uses the auto-install feature can be found here: Auto-install sample

3.2 Dependency types

There are a couple of ways to specify the SDK's as dependencies.

3.2.1 Maven/Ivy Dependency

If you have deployed the SDK archives to a Maven/Ivy repository then you can specify them like this:

```
dependencies {
          flexSDK group: 'org.apache', name: 'apache-flex-sdk', version: '4.9.0', ext: 'zip'
          airSDK group: 'com.adobe', name: 'AdobeAIRSDK', version: '3.4', ext: 'zip'
    }
```

3.2.2 URL-based Dependency

You can also specify the SDK by referencing a URL. To do this you need to define custom Ivy URL Resolvers. For example for the Apache Flex SDK this would be something like this:

Always make sure to replace the artifact name, version and extension type with [module], [revision] and [ext] in the pattern. Once you've defined the pattern you can define the dependencies like this:

```
dependencies {
     flexSDK group: 'org.apache', name: 'apache-flex-sdk', version: '4.9.0', ext: 'zip'
     airSDK group: 'com.adobe', name: 'AdobeAIRSDK', version: '3.4', ext: 'zip'
}
```

3.2.3 File-based dependency

And the last option is to specify the SDK's as file-based dependencies. This can be done as follows:

```
dependencies {
    flexSDK files('C:/sdks/flex-4.6-sdk.zip')
    airSDK files('C:/sdks/air-3.4-sdk.zip')
}
```

3.3 Apache Flex SDK dependencies

As you may probably know the Apache Flex SDK requires some dependencies that aren't included in the SDK archive. GradleFx handles the installation of these dependencies for you. During the installation some prompts will be shown to accept some licenses. When you've made sure you read the licenses, you can turn the prompts off (e.g. for a continuous integration build) like this:

```
sdkAutoInstall {
    showPrompts = false
}
```

Properties/Conventions

The GradleFx plugin provides some properties you can set in your build script. Most of them are using conventions, so you'll only need to specify them if you want to use your own values.

The following sections describe the properties you can/have to specify in your build script(required means whether you have to specify it yourself):

4.1 Standard Properties

Property	Convention	Re-	Description
Name		quire	
gradle-	%GRA-	false	The location where GradleFx will store GradleFx specific
FxUser-	DLE_USER_HOME%/gradle	Fx	files (e.g. installed SDK's)
HomeDir			
flexHome	FLEX_HOME environment var	false	The location of your Flex SDK
flexSd-		false	The name you want to give to the Flex SDK Primarily used in
kName			the IDE integration
type	n/a	true	Whether this is a library project or an application. Possible values: 'swc', 'swf', 'air' or 'mobile'
srcDirs	['src/main/actionscript']	false	An array of source directories
re-	['src/main/resources']	false	An array of resource directories (used in the copyresources
sourceDirs			task, or included in the SWC for library projects)
testDirs	['src/test/actionscript']	false	An array of test source directories
testRe-	['src/test/resources']	false	An array of test resource directories
sourceDirs			
include-	null	false	Equivalent of the include-classes compiler option. Accepts a
Classes			list of classnames
includeS-	null	false	Equivalent of the include-sources compiler option. Accepts a
ources			list of classfiles and/or directories.
frame-	'external' for swc projects,	false	How the Flex framework will be linked in the project:
workLink-	'rsl' for swf projects and		"external", "rsl", "merged" or "none"
age	'none' for pure as projects		
useDebu-	false	false	Whether to use the debug framework rsl's when
gRSLSwfs	1	C.1.	frameworkLinkage is rsl
addition-		false	Additional compiler options you want to specify to the compo
alCom-			or mxmlc compiler. Can be like ['-target-player=10', '-strict=false']
pilerOp- tions			-strict=raise j
fatSwc	null	false	When set to true the asdoc information will be embedded into
iatswc	liuli	laise	the swc so that Adobe Flash Builder can show the
			documentation
localeDir	'src/main/locale'	false	Defines the directory in which locale folders are located like
			en_US etc.
locales		false	The locales used by your application. Can be something like
			['en_US', 'nl_BE']
main-	'Main'	false	This property is required for the mxmlc compiler. It defines
Class			the main class of your application. You can specify your own
			custom file like 'org/myproject/MyApplication.mxml' or
			'org.myproject.MyApplication'
output	\${project.name}	false	This is the name of the swc/swf that will be generated by the
			compile task
jvmArgu-		false	You can use this property to specify jvm arguments which are
ments			used during the compile task. Only one jvm argument per
			array item: e.g. jvmArguments =
	(10.0)		['-Xmx1024m','-Xms512m']
play-	'10.0'	false	Defines the flash player version
erVersion	oomalov missississi	£.1	This is a complex man artistic and in a continuous of a Continuous of the Continuous
html-	complex property	false	This is a complex property which contains properties for the
Wrapper flexUnit	complex property	folco	createHtmlWrapper task This is a complex property which contains properties for the
nexunit	complex property	false	
lair Stand	and Anthrontinosts	false	flexUnit task This is a complex property which contains properties for AIR11
tau Siandi	arch Phropepties rty	false	projects
asdoc	complex property	false	This is a complex property which contains properties for the
asaoc	complex property	laise	asdoc task

Note: All the available compiler options for the mxmlc and compc compiler are available here Compc options, Mxmlc options

4.2 Complex properties

4.2.1 air

Prop-	Convention	Re-	Description
erty		quired	d
Name			
keystore	"\${project.name}.p1	2false	The name of the certificate which will be used to sign the air package.
			Uses the project name by convention.
storepass	null	true	The password of the certificate
applica-	"src/main/actionscrip	pt#Sallspero	jeEhadowajimmof the air descriptor file. Uses the project name by
tionDe-			convention for this file.
scriptor			
include-	null	false	A list of FileTree objects which reference the files to include into the
File-			AIR package, like application icons which are specified in your
Trees			application descriptor. Can look like this: air.includeFileTrees =
			[fileTree(dir: 'src/main/actionscript/', include: 'assets/appIcon.png')]
fileOp-		false	Similar to includeFileTrees, but allows more flexibility without the
tions			convenience of a FileTree. It's most important use is to specify
			directories instead of individual files. air.fileOptions = ['-C',
			'src/main/actionscript/', 'sound']

4.2.2 airMobile

false Specifies the mobile pi form for which the packs is created. ane - an AIR native extension package Android package targets: apk - an Android package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulated on an Android device, not an emulated on an Android device, not an emulated on an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for - an	Property Name	Convention	Required	Description
is created. ane - an AIR native extension package Android package targets: apk - an Android package. A puckage produced with this target can only be installed on an Android device, not an emulator. apk-eaptive- runtime - an Android package that includes both the application and a captive version of application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for package for - an Android	target	apk	false	Specifies the mobile plat-
ane - an AIR native extension package Android package targets: apk - an Android package. A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator - an Android package for				form for which the package
native extension package Android package largets: apk - an Android package, A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator: apk-debug - an Android device, not an emulator: (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android - an An				
extension package Android package targets: apk - an Android package, A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/GofWentions emulator - an Android package for				ane - an AIR
package Android package targets: apk - an Android package, A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator: apk-debug- an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator - an Android package for				native
Android package targets: apk - an Android package. A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/@enventions emulator an Android package for				extension
apk - an Android package. A package produced with this target can only be installed on an Android device, not an emulator. apk-captive runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android mackage with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
Android package. A package produced with this target can only be installed on an Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug-an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/© 6Nventions emulator without				Android package targets:
package. A package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Cenventions emulator without				apk - an
package produced with this target can only be installed on an Android device, not an emulator. apk-captive- runtime—an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug—an Android device, not an emulator. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package of Chapter 4. Properties/©ofwentions emulator without				Android
produced with this target can only be installed on an Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				package. A
this target can only be installed on an Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Scriventions emulator without				package
only be installed on an Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Cert/ventions emulator without				produced with
installed on an Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/66/NWentions emulator without				this target can
Android device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Konventions emulator without				only be
device, not an emulator. apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/66nventions emulator without				installed on an
emulator. apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/sconventions emulator without				Android
apk-captive- runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				device, not an
runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Schventions emulator without				emulator.
runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Schventions emulator without				apk-captive-
package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator apk-emulator an Android package for Chapter 4. Properties/Conventions emulator without				
includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support. apk-emulator - an Android package for Chapter 4. Properties/&nventions emulator without				Android
includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug- an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support. apk-emulator - an Android package for Chapter 4. Properties/&nventions emulator without				package that
the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Scnventions emulator without				
and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/SGMVentions emulator without				
version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/@enventions emulator without				
A package produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/@@fv@ntions emulator without				
produced with this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/©6nventions emulator without				
this target can only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/& On Wentions emulator without				
only be installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Sonventions emulator without				
installed on an Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
Android device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
device, not an emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
emulator. apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
extra debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
debugging information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
information. (The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
(The SWF files in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
in the application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Eanventions emulator without				
application must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				` `
must also be compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
compiled with debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
debugging support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
support.) apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
apk-emulator - an Android package for Chapter 4. Properties/Conventions emulator without				
- an Android package for Chapter 4. Properties/Conventions emulator without				
Chapter 4. Properties/Conventions emulator without				
Chapter 4. Properties/Conventions emulator without				
emulator without	_			
without	4		Chapte	er 4. Properties Conventions
,				without

debugging

4.2.3 adl

Prop-	Con-	Re-	Description
erty	ven-	quired	
Name	tion		
profile		false	ADL will debug the application with the specified profile. Can have the following
			values: desktop, extendedDesktop, mobileDevice
screen-		false	The simulated screen size to use when running apps in the mobileDevice profile on
Size			the desktop. To specify the screen size as a predefined screen type, look at the list
			provided here: http://help.adobe.com/en_US/air/build/WSfffb011ac560372f-
			6fa6d7e0128cca93d31-8000.html To specify the screen pixel dimensions directly,
			use the following format: widthXheight:fullscreenWidthXfullscreenHeight

4.2.4 htmlWrapper

Property Name	Convention	Required	Description
title	project.description	false	The title of the html page
file	"\${project.name}.html"	false	Name of the html file
percentHeight	'100'	false	Height of the swf in the
			html page
percentWidth	'100'	false	Width of the swf in the html
			page
application	project.name	false	Name of the swf object in
			the HTML wrapper
swf	project.name	false	The name of the swf that
			is embedded in the HTML
			page. The '.swf' extension
			is added automatically, so
			you don't need to specify it.
history	'true'	false	Set to true for deeplinking
			support.
output	project.buildDir	false	Directory in which the html
			wrapper will be generated.
expressInstall	'true'	false	use express install
versionDetection	'true'	false	use version detection
source	null	false	The relative path to your
			custom html template
tokenReplacements	[application: wrap-	false	A map of tokens which will
	per.application,		be replaced in your custom
	percentHeight:		template. The keys have
	"\$wrap-		to be specified as \${key} in
	per.percentHeight%",		your template
	percentWidth:		
	"\$wrap-		
	per.percentWidth%",		
	swf: wrapper.swf,		
	title: wrapper.title		

4.2.5 flexUnit

(Since GradleFx uses the FlexUnit ant tasks it also uses the same properties, more information about the properties specified in this table can be found in the "Property Descriptions" section on this page: http://docs.flexunit.org/index.php?title=Ant_Task)

Property	Convention	Re-	Description
Name		quire	
template	Uses the internal	false	The path to your test runner template relative from the project
	template provided		directory
	by GradleFx		
player	'flash'	false	Whether to execute the test SWF against the Flash Player or ADL.
			See the "Property Descriptions" section on this page for more
			information: http://docs.flexunit.org/index.php?title=Ant_Task
command	FLASH_PLAYER_E	Xfalse	The path to the Flash player executable which will be used to run the
	environment		tests
	variable		
toDir			pDingctory to which the test result reports are written
work-	project.path	false	Directory to which the task should copy the resources created during
ingDir			compilation.
haltonfail-	'false'	false	Whether the execution of the tests should stop once a test has failed
ure			
verbose	'false'	false	Whether the tasks should output information about the test results
local-	'true'	false	The path specified in the 'swf' property is added to the local
Trusted			FlashPlayer Trust when this property is set to true.
port	'1024'	false	On which port the task should listen for test results
buffer	'262144'	false	Data buffer size (in bytes) for incoming communication from the
			Flash movie to the task. Default should in general be enough, you
			could possibly increase this if your tests have lots of failures/errors.
timeout	'60000'	false	How long (in milliseconds) the task waits for a connection with the
			Flash player
failure-	'flexUnitFailed'	false	If a test fails, this property will be set to true
property		6.1	
headless	'false'	false	Allows the task to run headless when set to true.
display	'99'	false	The base display number used by Xvnc when running in headless
	Ended (dem	6.1	mode.
includes	['**/*Test.as']	false	Defines which test classes are executed when running the tests
excludes		false	Defines which test classes are excluded from execution when running
CN T	"TestRunner.swf"	£-1	the tests
swfName		false	the name you want to give to the resulting test runner application
additional- Com-		false	A list of custom compiler options for the test runner application
pilerOp-			
tions	'false'	folco	When anabled failed tests will be ignored and won't make the build
ignoreFail-	14180	false	When enabled, failed tests will be ignored and won't make the build fail
ures			Iall

4.2.6 asdoc

Property Name	Conven-	Re-	Description
	tion	quired	
outputDir	'doc'	false	The directory in which the asdoc documentation will be created
additionalASDocOp- tions		false	Additional options for the asdoc compiler.

4.2.7 sdkAutoInstall

Property	Con-	Re-	Description
Name	ven-	quired	
	tion	-	
show-	true	false	Whether to show prompts during the installation or let it run in full auto mode.
Prompts			Make sure you agree with all the licenses before turning this off

Note: All the available asdoc options (for Flex 4.6) can be found here: asdoc compiler options

= 'My Page Title'

4.3 Example usage (build.gradle)

```
buildscript {
    repositories {
        mavenLocal()
    }
    dependencies {
        classpath group: 'org.gradlefx', name: 'gradlefx', version: '0.5'
    }
}
apply plugin: 'gradlefx'

flexHome = System.getenv()['FLEX_SDK_LOCATION'] //take a custom environment variable which contains such that such
```

title

}

percentHeight = 80
percentWidth = 80

Dependency Management

5.1 Overview

The GradleFx plugin adds the following configurations to your project:

- merged: This configuration can be used for dependencies that should be merged in the SWC/SWF. Same as -compiler.library-path
- internal: The dependency content will be merged in the SWC/SWF. Same as -compiler.include-libraries
- external: The dependency won't be included in the SWC/SWF. Same as -compiler.external-library-path
- rsl: The SWF will have a reference to load the dependency at runtime. Same as -runtime-shared-library-path
- test: This is for dependencies used in unit tests
- theme: The theme that will be used by the application. Same as -theme

You can specify your dependencies like this:

```
dependencies {
    external group: 'org.springextensions.actionscript', name: 'spring-actionscript-core', version: 'sexternal group: 'org.as3commons', name: 'as3commons-collections', version: '1.1', ext: 'swc'
    external group: 'org.as3commons', name: 'as3commons-eventbus', version: '1.1', ext: 'swc'
    merged group: 'org.graniteds', name: 'granite-swc', version: '2.2.0.SP1', ext: 'swc'
    merged group: 'org.graniteds', name: 'granite-essentials-swc', version: '2.2.0.SP1', ext: 'swc'
    theme group: 'my.organization', name: 'fancy-theme', version: '1.0', ext: 'swc'
}
```

5.2 Project Lib Dependencies

You can also add dependencies to other projects, as described here in the Gradle documentation: http://www.gradle.org/current/docs/userguide/userguide single.html#sec:project jar dependencies

Tasks

6.1 Overview

The GradleFx plugin adds the following tasks to your project:

Task name	Depends on	Description
clean	n/a	Deletes the build directory
compileFlex	copyresources	Creates a swc or swf file from your code. The 'type
_		property defines the type of file
package	compile	Packages the generated swf file into an .air package
copyresources	n/a	Copies the resources from the source 'resources'
		directory to the build directory
copytestre-	n/a	Copies the test resources from the test 'resources'
sources		directory to the build directory
publish	n/a	Copies the files from the build directory to the
		publish directory.
createHtml-	n/a	Creates an HTML wrapper for the project's swf
Wrapper		
test	copytestresources	Runs the FlexUnit tests
asdoc	compile	Creates asdoc documentation for your sources
packageMobile	compile	Packages the mobile app for a release version.
packageSimula-	compile	Packages the mobile app for the simulator.
torMobile		
installMobile	uninstallMobileApp packageMobile	install app to target device
installSimula-	uninstallSimulatorMobileApp	Installs the app on the simulator.
torMobile	packageSimulatorMobileApp	
uninstallMobile		Uninstalls the app from the device.
uninstallSimu-		Uninstalls the app from the simulator.
latorMobile		
launchMobile	installMobileApp	Launches the app to a certain device.
launchSimula-	installSimulatorMobileApp	Launches the app on the simulator.
torMobile		
launchAdl	compile	Task which launches ADL.

The Flashbuilder plugin adds the following tasks to your project:

Task name	Depends on	Description
flashbuilder	n/a	Creates the Adobe Flash Builder project files
flashbuilderClean	n/a	Deletes the Adobe Flash Builder project files

The Idea plugin adds the following tasks to your project:

Task name	Depends on	Description
idea	n/a	Creates the IDEA Intellij project files
ideaClean	n/a	Deletes the IDEA Intellij project files

The Scaffold plugin adds the following tasks to your project:

Task name	Depends on	Description
scaffold	n/a	Generates directory structure and main application class

6.2 Adding additional logic

Sometimes you may want to add custom logic right after or before a task has been executed. If you want to add some logging before or after the compile task, you can just do this:

22 Chapter 6. Tasks

AIR

This page describes how you need to configure your AIR project. Only a few things are needed for this.

Note: There's a working example available in the GradleFx examples project: https://github.com/GradleFx/GradleFx-Examples/tree/master/air-single-project

7.1 Project type

First you'll need to specify the project type, which in this case is 'air'. You do this as follows:

```
type = 'air'
```

7.2 AIR descriptor file

Then you'll need an AIR descriptor file (like in every AIR project). If you give this file the same name as your project and put it in the default source directory (src/main/actionscript) then you don't have to configure anything because this is the convention. If you want to deviate from this convention you can specify the location like this:

7.3 Certificate

Then you'll need a certificate to sign the AIR package. This certificate has to be a *.p12 file. GradleFx uses the project name for the certificate by convention, so if your certificate is located at the root of your project and has a %myprojectname%.p12 filename; then you don't have to configure anything. If you want to deviate from this convention, then you can do this by overriding the air.keystore property:

You also need to specify the password for the certificate. This property is required. You can specify this as follows:

If you don't want to put the password in the build file then you can use the properties system of Gradle, see the Gradle documentation for more information about this: http://www.gradle.org/docs/current/userguide/tutorial this and that.html#sec:gradle properties and system properties

7.4 Adding files to the AIR package

In most cases you will want to add some files to your AIR package, like application icons which are being specified in your application descriptor like this:

Only specifying those icons in your application descriptor won't do it for the compiler, so you need to provide them to it. With GradleFx you can do that with the includeFileTrees property, which looks like this:

```
air {
   includeFileTrees = [
      fileTree(dir: 'src/main/actionscript/', include: 'assets/appIcon.png')
   ]
}
```

You have to make sure that the 'include' part always has the same name as the one specified in your application descriptor, otherwise the compiler won't recognize it. The fileTree also accepts patterns and multiple includes, more info about this can be found in the Gradle documentation: http://gradle.org/docs/current/userguide/working_with_files.html

7.4.1 More flexible approach

While the benefit of the includeFileTrees option may be its convenience, it may not always fit your needs. Certainly when you need to add a lot of files to your build. The number of paths you can specify is limited by the air packager, and since the includeFileTrees always adds individual paths instead of directories, this can potentially reach the maximum and cause a packager error. You can avoid this by manually specifying the compiler options to add individual directories instead of files, with the air.fileOptions property:

```
air {
    fileOptions = [
        '-C',
        'src/main/actionscript/',
        'sound'
    ]
}
```

24 Chapter 7. AIR

Mobile

This page describes how you can setup GradleFx to build your mobile project.

Note: There's a working example available in the GradleFx examples project: https://github.com/GradleFx/GradleFx-Examples/tree/master/mobile-android

Note: For a complete list of mobile convention properties, take a look at the airMobile and adt sections in the *Properties/Conventions* page.

8.1 General setup

You'll have to define the project as a mobile project. You can define this as follows:

```
type = 'mobile'
```

For other general AIR setup instructions, check out the AIR documentation page: AIR

The mobile properties have conventions for Android, so if you're building for this platform, you're all set (unless you want to tune them a bit). For iOS you'll have to override some convention properties. Check out the platform specific sections for more information.

8.2 Android

8.2.1 Target & simulatorTarget

To specify how you want to package for Android, you can define the target property for installing to a device, or simulatorTarget for installing to a simulator. This property defaults to apk for the target property and to apk-simulator for the simulatorTarget property.

These are all the targets you can use for Android:

apk - an Android package. A package produced with this target can only be installed on an Android device, not an emulator. I

apk-captive-runtime - an Android package that includes both the application and a captive version of the AIR runtime. A package produced with this target can only be installed on an Android device, not an emulator.

apk-debug - an Android package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.)

apk-emulator - an Android package for use on an emulator without debugging support. (Use the apk-debug target to permit debugging on both emulators and devices.)

apk-profile - an Android package that supports application performance and memory profiling.

You can specify it like this:

```
airMobile {
   target = 'apk-debug'
}
```

Or like this when you use any of the simulator tasks:

8.3 iOS

8.3.1 Platform

The platform convention property defines the platform for which you want to deploy. For iOS this value should be the following:

```
airMobile {
    platform = 'ios'
}
```

8.3.2 Target & simulatorTarget

To specify how you want to package for iOS, you can define the target property for installing to a device, or simulatorTarget for installing to a simulator. For iOS the target property is required, since it defaults to an Android value. The same is true for the simulatorTarget property in case you want to use a simulator.

These are all the targets you can use for iOS:

ipa-ad-hoc - an iOS package for ad hoc distribution. |

ipa-app-store - an iOS package for Apple App store distribution. I

ipa-debug - an iOS package with extra debugging information. (The SWF files in the application must also be compiled with debugging support.)

ipa-test - an iOS package compiled without optimization or debugging information.

ipa-debug-interpreter - functionally equivalent to a debug package, but compiles more quickly. However, the ActionScript bytecode is interpreted and not translated to machine code. As a result, code execution is slower in an interpreter package.

ipa-debug-interpreter-simulator - functionally equivalent to ipa-debug-interpreter, but packaged for the iOS simulator. Macintosh-only. If you use this option, you must also include the -platformsdk option, specifying the path to the iOS Simulator SDK.

ipa-test-interpreter - functionally equivalent to a test package, but compiles more quickly. However, the ActionScript bytecode is interpreted and not translated to machine code. As a result, code execution is slower in an interpreter package.

26 Chapter 8. Mobile

ipa-test-interpreter-simulator - functionally equivalent to ipa-test-interpreter, but packaged for the iOS simulator. Macintosh-only. If you use this option, you must also include the -platformsdk option, specifying the path to the iOS Simulator SDK.

You can specify it like this:

```
airMobile {
   target = 'ipa-debug'
}
```

Or like this when you use any of the simulator tasks:

8.3.3 Defining the target device

For iOS you have to define the target device. This should be the ios_simulator or handle of the iOS device.

```
airMobile {
          targetDevice 22
}
```

You can find the handle of the attached devices with the following command:

```
> adt -devices -platform ios
```

8.3.4 Provisioning Profile

To package an application for iOS, you need a provisioning profile provided by Apple. You can define it like this:

```
airMobile {
    provisioningProfile = 'AppleDevelopment.mobileprofile'
}
```

8.4 Tasks

To package a mobile project:

```
> packageMobile
> packageSimulatorMobile
```

To install a mobile project on a device/simulator:

```
> installMobile
> installSimulatorMobile
```

To uninstall a mobile project from a device/simulator:

```
> uninstallMobile
> uninstallSimulatorMobile
```

To launch a mobile project on a device/simulator:

8.4. Tasks 27

- > launchMobile
- > launchSimulatorMobile

28 Chapter 8. Mobile

FlexUnit

GradleFx supports automatically running tests written with FlexUnit 4.1.

9.1 Setting up testing in GradleFx

First you need to specify the FlexUnit dependencies. You can download the required FlexUnit libraries from their site and then deploy them on your repository (recommended) or use file-based dependencies. Once you've done that you have to define them as dependencies in your build file.

1. When you have deployed the artifacts on your own repository:

```
dependencies {
    test group: 'org.flexunit', name: 'flexunit-tasks', version: '4.1.0-8', ext: 'swc'
    test group: 'org.flexunit', name: 'flexunit', version: '4.1.0-8', ext: 'swc'
    test group: 'org.flexunit', name: 'flexunit-cilistener', version: '4.1.0-8', ext: 'swc'
    test group: 'org.flexunit', name: 'flexunit-uilistener', version: '4.1.0-8', ext: 'swc'
}
```

2. When you have FlexUnit installed on your machine:

Then you'll need to specify the location of the Flash Player executable. GradleFx uses the FLASH_PLAYER_EXE environment variable by convention which should contain the path to the executable. If you don't want to use this environment variable you can override this with the 'flexUnit.command' property. You can download the executable from here (these links may get out of date, look for the Flash Player standalone/projector builds on the Adobe site):

- For Windows
- For Mac
- For Linux

And that's basically it in terms of setup when you follow the following conventions:

- Use src/test/actionscript as the source directory for your test classes.
- Use src/test/resources as the directory for your test resources.

You end all your test class names with "Test.as"

GradleFx will by convention execute all the *Test.as classes in the test source directory when running the tests.

9.2 Running the tests

You can run the FlexUnit tests by executing the "gradle test" command on the command-line.

9.3 Skipping the tests

In case you want to execute a task which depends on the test task, but you don't want to execute the tests, then you can skip the test execution by excluding the test task with the '-x test' parameter. Like this:

```
> gradle build -x test
```

9.4 Customization

9.4.1 Changing the source/resource directories

You can change these directories by specifying the following properties like this:

```
testDirs = ['src/testflex']
testResourceDirs = ['src/testresources']
```

9.4.2 Include/Exclude test classes

You can include or exclude test classes which are being run by specifying a pattern to some GradleFx properties. To specify the includes you can use the flexUnit.includes property:

```
flexUnit {
    includes = ['**/Test*.as'] //will include all actionscript classes which start with 'Test'
}
```

To specify the excludes you can use the flexUnit.excludes property:

```
flexUnit {
    excludes = ['**/*IntegrationTest.as']
}
```

9.4.3 Use a custom test runner template

If you want to customize the test application which runs your unit tests, you can create a custom template for this. An example of such a template can be found here https://github.com/GradleFx/GradleFx-Examples/blob/master/flexunit-single-project/src/test/resources/CustomFlexUnitRunner.mxml

This template accepts two parameters:

- fullyQualifiedNames: These are the fully qualified names of the test classes (e.g. 'org.gradlefx.SomeTest')
- testClasses: These are the test class names (e.g. 'SomeTest')

Once you've created your template, you can specify it in your build script:

```
flexUnit {
    template = 'src/test/resources/CustomFlexUnitRunner.mxml'
}
```

9.4.4 Add custom compiler options

In some cases you want to specify custom compiler options to your test application, for example for keeping certain metadata. You can do this by using the flexUnit.additionalCompilerOptions property:

```
flexUnit {
    additionalCompilerOptions = [
        '-incremental=true',
    ]
}
```

9.4.5 Ignoring test failures

By default, when a test fails the build will fail. If you want to ignore test failures, then you can do this with the following property:

```
flexUnit {
    ignoreFailures = true
}
```

9.4.6 Other customizations

There are a lot more properties available on flexUnit.*, all these can be found on the properties description page.

9.4. Customization 31

32 Chapter 9. FlexUnit

Html Wrapper

GradleFx allows you to create a html wrapper for your application by using the createHtmlWrapper task and the htmlWrapper convention properties.

10.1 Usage

10.1.1 Execution

You can create the html wrapper files without having to specify any htmlWrapper convention properties. Just execute the createHtmlWrapper task like this and it will use the conventions:

```
>gradle createHtmlWrapper
```

10.1.2 Customization

You can customize the conventions by overriding the htmlWrapper properties, like this:

Note: For a full list of htmlWrapper properties, visit the properties section: *Properties/Conventions*

You can also provide your own html page which contains replaceable tokens. This can be done with the help of the htmlWrapper.source and htmlWrapper.tokenReplacements properties. source is the relative path to an existing HTML-file that can be provided as a template instead of using the default one. If the property isn't provided, the template will be generated with the default html file.

tokenReplacements is map of replacements for tokens in the provided source file. If the template contains the token \${swf}, it'll be replaced with 'example' if this property contains a [swf:example] mapping. If source isn't specified, this property will be ignored.

You can use this as follows:

AsDoc

GradleFx has support for generating asdoc documentation for your swc-based projects.

11.1 How to use it

No specific configuration is needed for this, you can simply execute the "gradle asdoc" command and it will create a doc folder in your project which will contain the html documentation files.

11.1.1 Creating a fat swc

A fat swc is a swc file which has asdoc information embedded in it so that Adobe Flash Builder can show the documentation while you're working in it. GradleFx has a handly property for this which, when turned on, will always create a fat swc when you compile your project. This property can be set like this:

```
fatSwc = true
```

11.1.2 Customizing the asdoc generation

GradleFx also provides some properties which can be used to customize the asdoc generation. One of them is the asdoc.outputDir property, which allows you to specify a different destination directory for the asdoc documentation. This property can be used as follows:

Another property which allows the most customization is the asdoc.additionalASDocOptions property. It can be used like the additionalCompilerOptions, but this one accepts asdoc compiler options. These options can be found here (for Flex 4.6): asDoc compiler options

The property can be used as follows:

36 Chapter 11. AsDoc

Localization

GradleFx provides an easy way to specify locales instead of having to specify the compiler arguments. The two convention properties of importance are:

- **localeDir**: This defines the directory in which locale folders are located (relative from the project root). The convention here is 'src/main/locale'
- locales: Defines a list of locales used by your application, like en_US, nl_BE, etc. This property has no default.

Let's say you want to support the en_GB and nl_BE locales. Then you could have the following directory structure:

- %PROJECT_ROOT%/src/main/locale/en_GB/resources.properties
- %PROJECT_ROOT%/src/main/locale/nl_BE/resources.properties

Because 'src/main/locale' is already the default value for the localeDir property you only have to specify the locales, like this:

```
locales = ['en_GB', 'nl_BE']
```

You can also change the default value of the localeDir in case you don't want to follow the convention like this:

 ${\tt localeDir = 'locales' // directory \ structure \ will \ then \ look \ like \ this: \ {\tt \ PROJECT_ROOT\%/locales/en_GB}}$

IDE Plugin

This feature mimics the behavior of the 'eclipse', 'idea', etc. Gradle plugins for Flex projects. It generates IDE configuration files and puts the dependencies from the Gradle/Maven cache on the IDE's build path. It consists of subplugins for both FlashBuilder and Intellij which can be applied separately.

If you want support for all supported IDE's load the plugin like this:

```
apply plugin: 'ide'
```

In any other case just apply the required subplugins.

13.1 Sub-plugins

There is a plugin for each of the following IDE's; each plugin has its matching task:

IDE load plugin execute task

IDE	Load plugin	Execute task
FlashBuilder	apply plugin: 'flashbuilder'	gradle flashbuilder
IntelliJ IDEA	apply plugin: 'ideafx'	gradle idea

The IDEA plugin was named ideafx to avoid conflicts with the existing 'java' idea plugin.

Every IDE plugin depends on the Scaffold plugin (cf. *Templates Plugin*) that generates the directory structure and the main application file.

Each of these plugins also has a matching **clean** task; for instance you could remove all the FlashBuilder configuration files from a project by executing gradle flashbuilderClean.

13.2 FlashBuilder plugin

Load the plugin:

```
apply plugin: 'flashbuilder'
```

Run the associated task:

```
gradle flashbuilder
```

With all conventions the output for a swf application might be something like this:

```
:my-first-app:scaffold
Creating directory structure
    src/main/actionscript
    src/main/resources
    src/test/actionscript
    src/test/resources
Creating main class
    src/main/actionscript/Main.mxml
::my-first-app:flashbuilder
Verifying project properties compatibility with FlashBuilder
Creating FlashBuilder project files
    .project
    .actionScriptProperties
    .flexProperties
BUILD SUCCESSFULL
To clean the project, i.e. remove all FlashBuilder configuration files:
gradle flashbuilderClean
13.3 IDEA Intellij plugin
Load the plugin:
apply plugin: 'ideafx'
Run the associated task:
gradle idea
With all conventions the output for a swf application might be something like this:
:my-first-app:scaffold
Creating directory structure
```

src/main/actionscript
src/main/resources
src/test/actionscript
src/test/resources

Creating main class

src/main/actionscript/Main.mxml

:my-first-app:idea

Verifying project properties compatibility with IntelliJ IDEA

Creating IntelliJ IDEA project files

BUILD SUCCESSFUL

To clean the project, i.e. remove all IDEA configuration files:

gradle ideaClean

Templates Plugin

14.1 Overview

The Templates plugin is a feature similar to gradle-templates that can generate default directory structures and/or classes. As of GradleFx v0.5 this plugin has only very partially been implemented. Actually only the automatic generation of directory structure and the main application file (+ the descriptor file for AIR projects) is currently available, as it is a dependency required by the *IDE Plugin*. Further development is not on our priority list for the time being.

Load the plugin like so:

```
apply plugin: 'templates'
```

14.2 Sub-plugins

As of GradleFx v0.5 only one sub-plugin exists:

• Scaffold plugin: generates directory structure and main application class

This means that at the moment *apply plugin: 'templates'* and *apply plugin: 'scaffold*' will both result in the same tasks being available.

14.3 Scaffold plugin

Load the plugin:

```
apply plugin: 'scaffold'
```

The scaffold task is now available to you. It is the only available task for now. To use it execute gradle scaffold at the command line.

With all conventions this will result in the following output for a swf project:

src/test/resources
Creating main class
 src/main/actionscript/Main.mxml

BUILD SUCCESSFUL

14.3.1 Application descriptor

In an air or mobile project an application descriptor file will also be created based on the air.applicationDescriptor property:

src/main/actionscript/Main-app.xml

14.3.2 Localization

If you've defined some locales in your build script (say locales = $['nl_BE', 'fr_BE']$), directories for these locales will also be created:

src/main/locale/nl_BE
src/main/locale/fr_BE

CHAPTER 15

Indices and tables

- genindex
- modindex
- search