

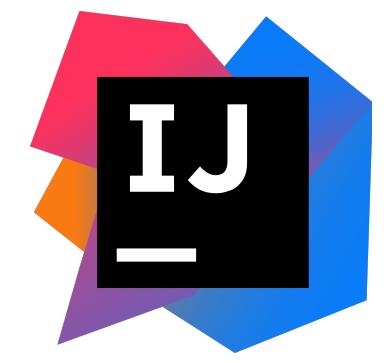
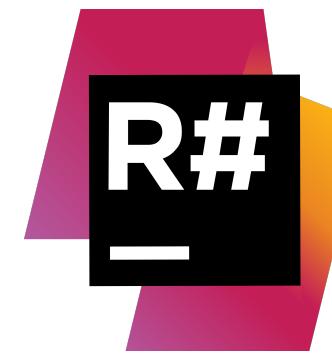
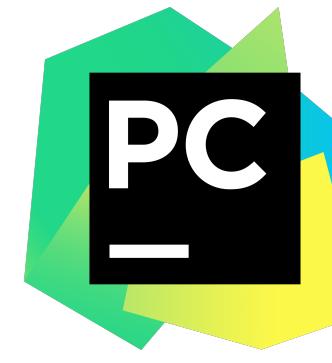
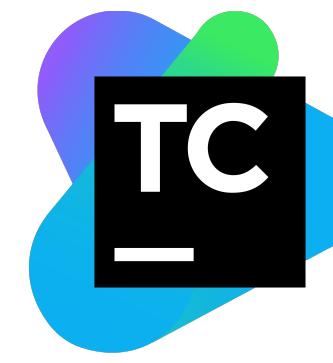
A Builder's Intro to Kotlin

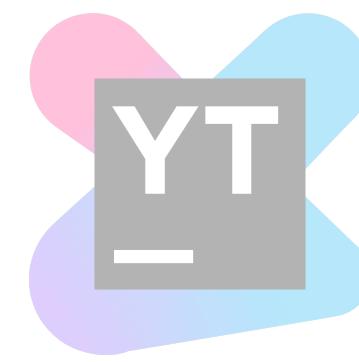
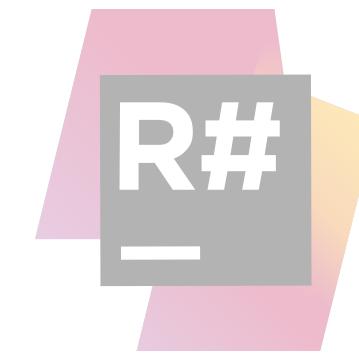
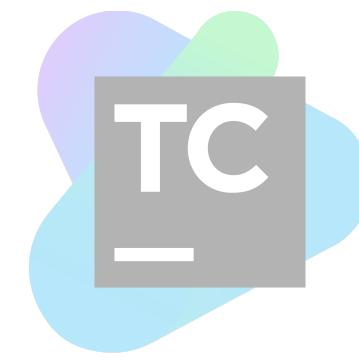
Jake Wharton

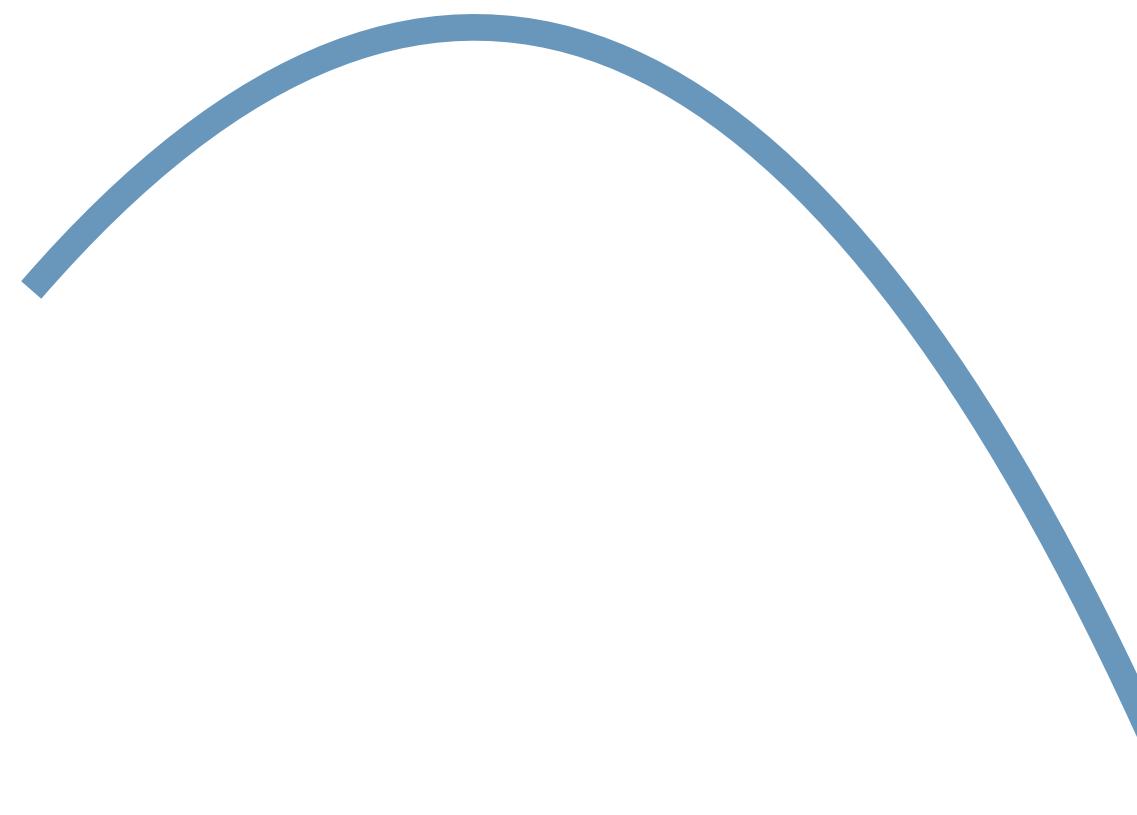


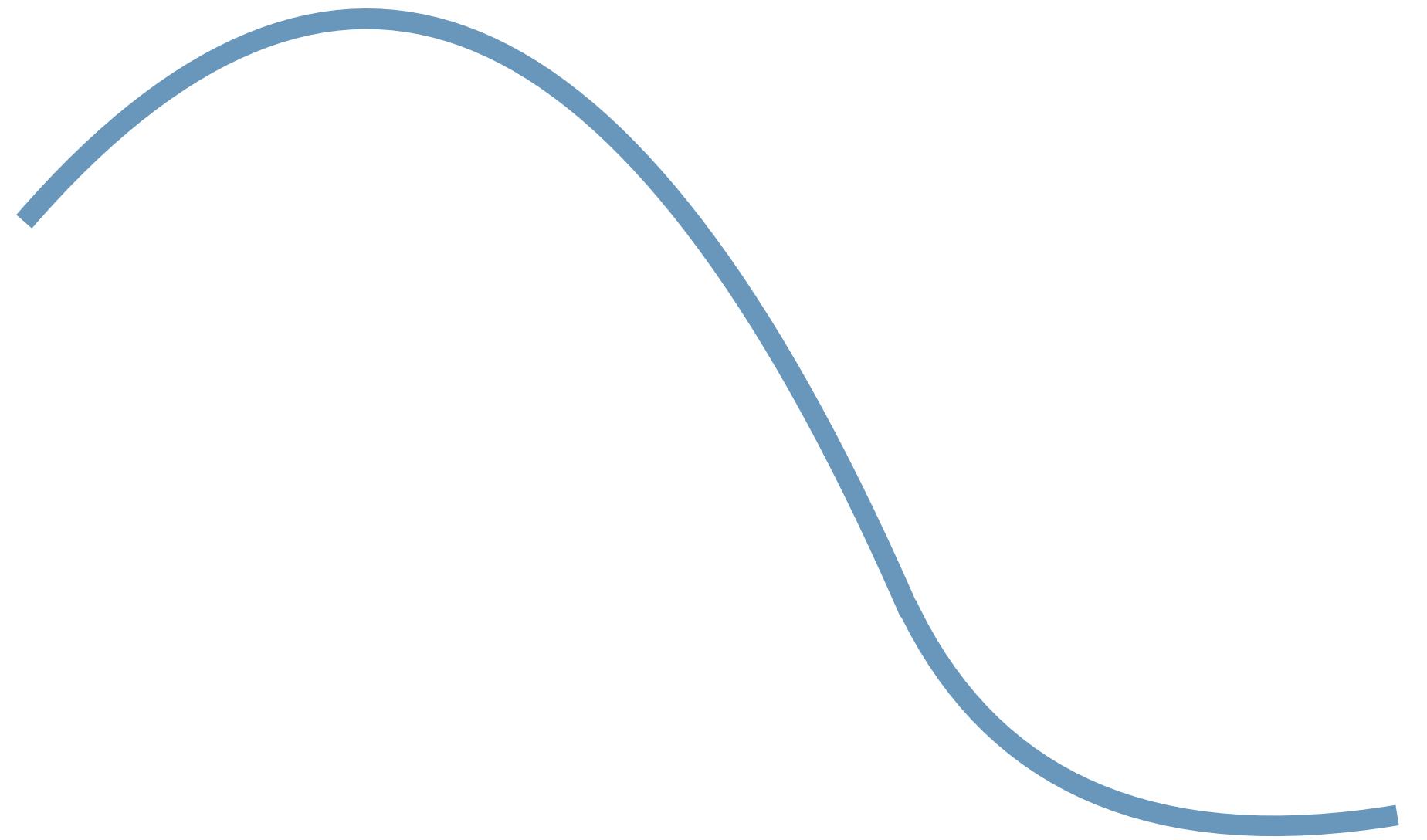
Kotlin?

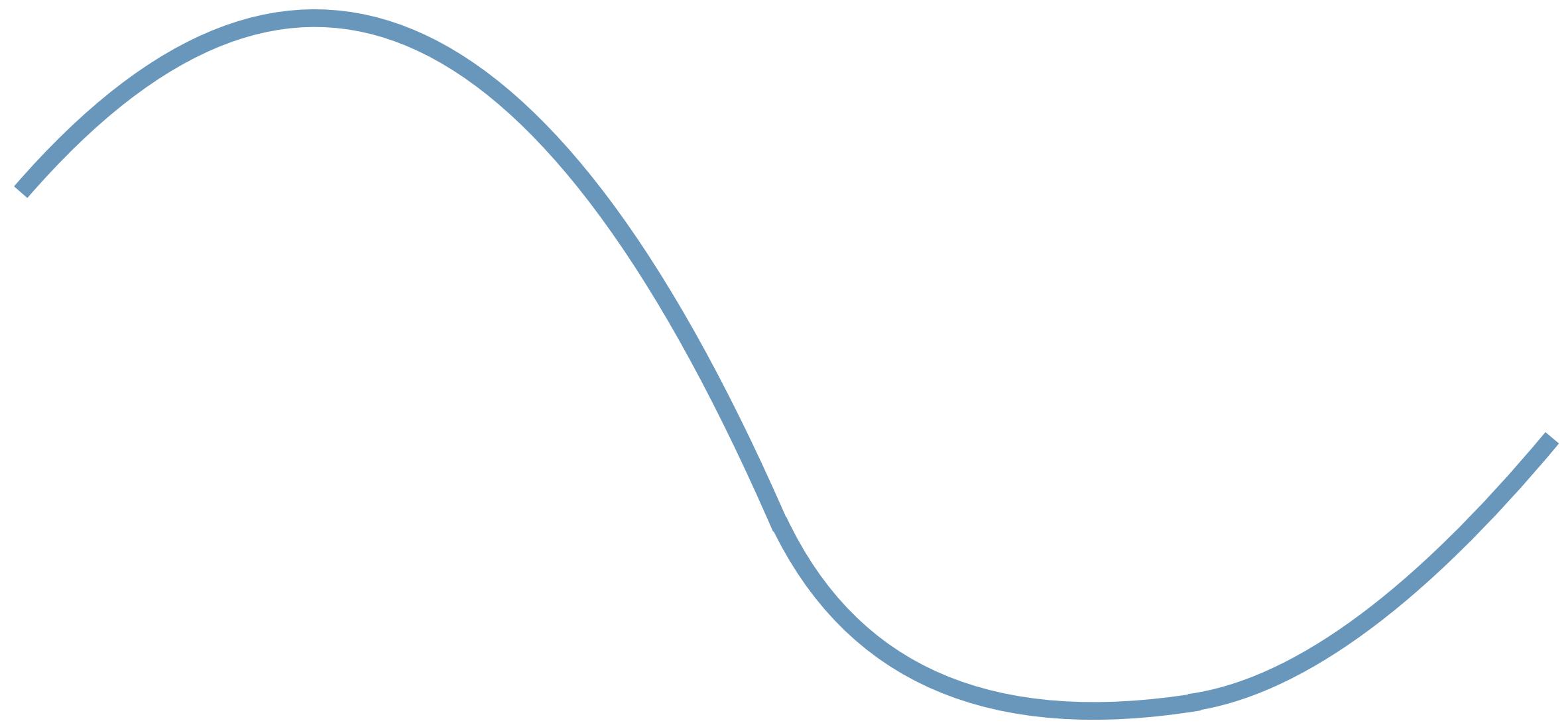


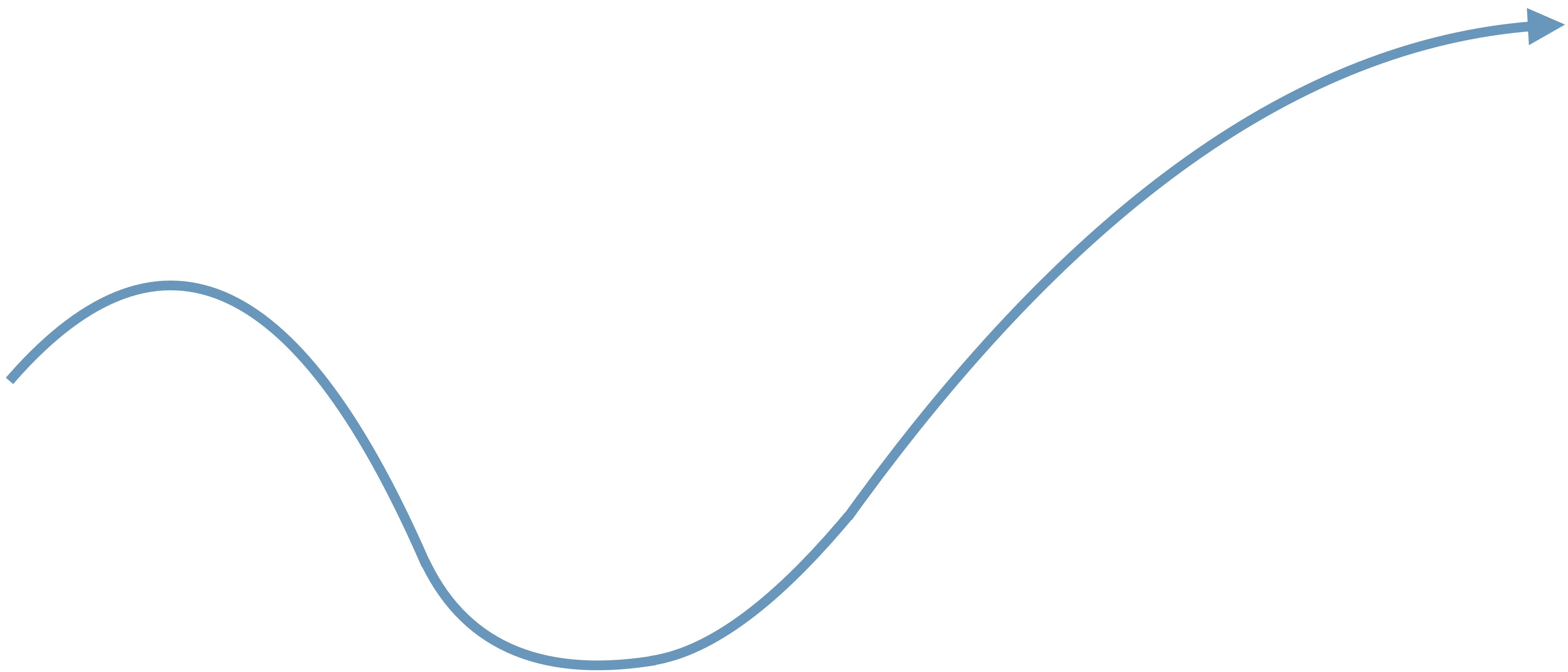


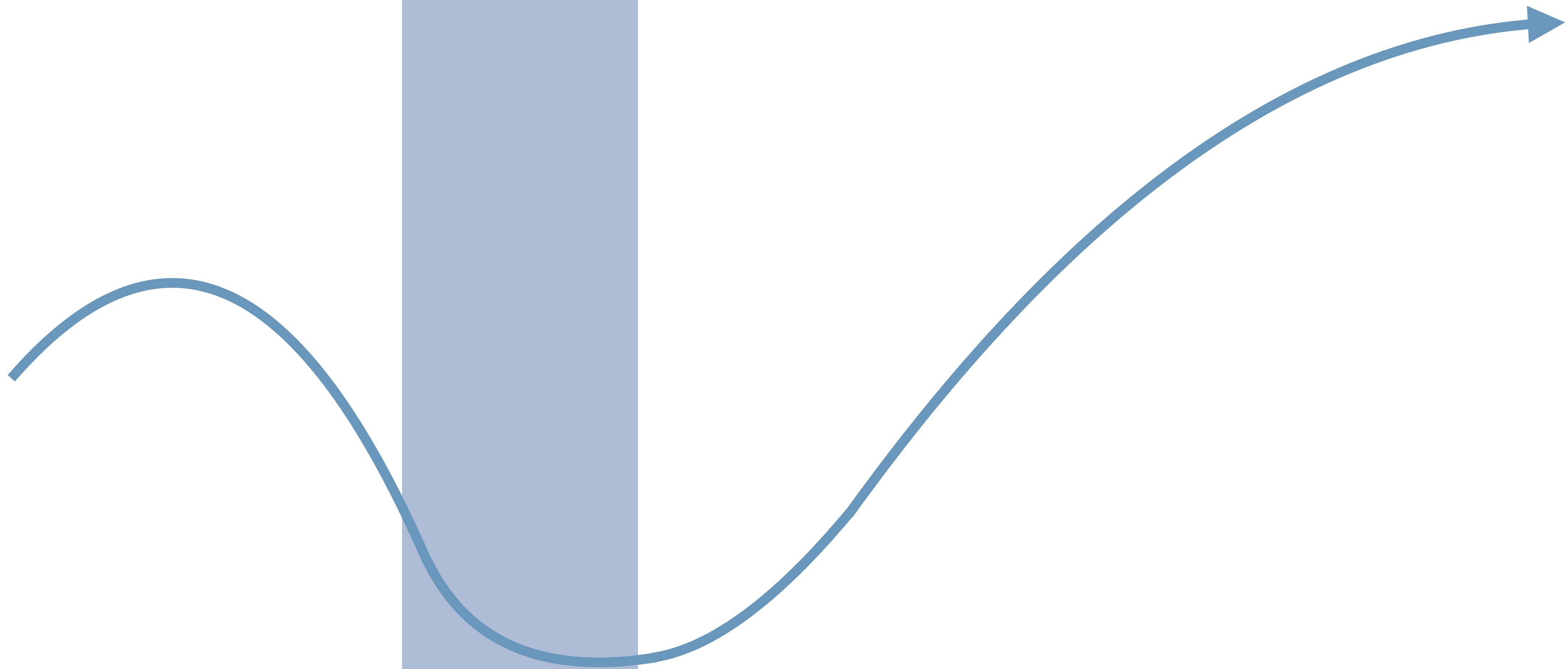


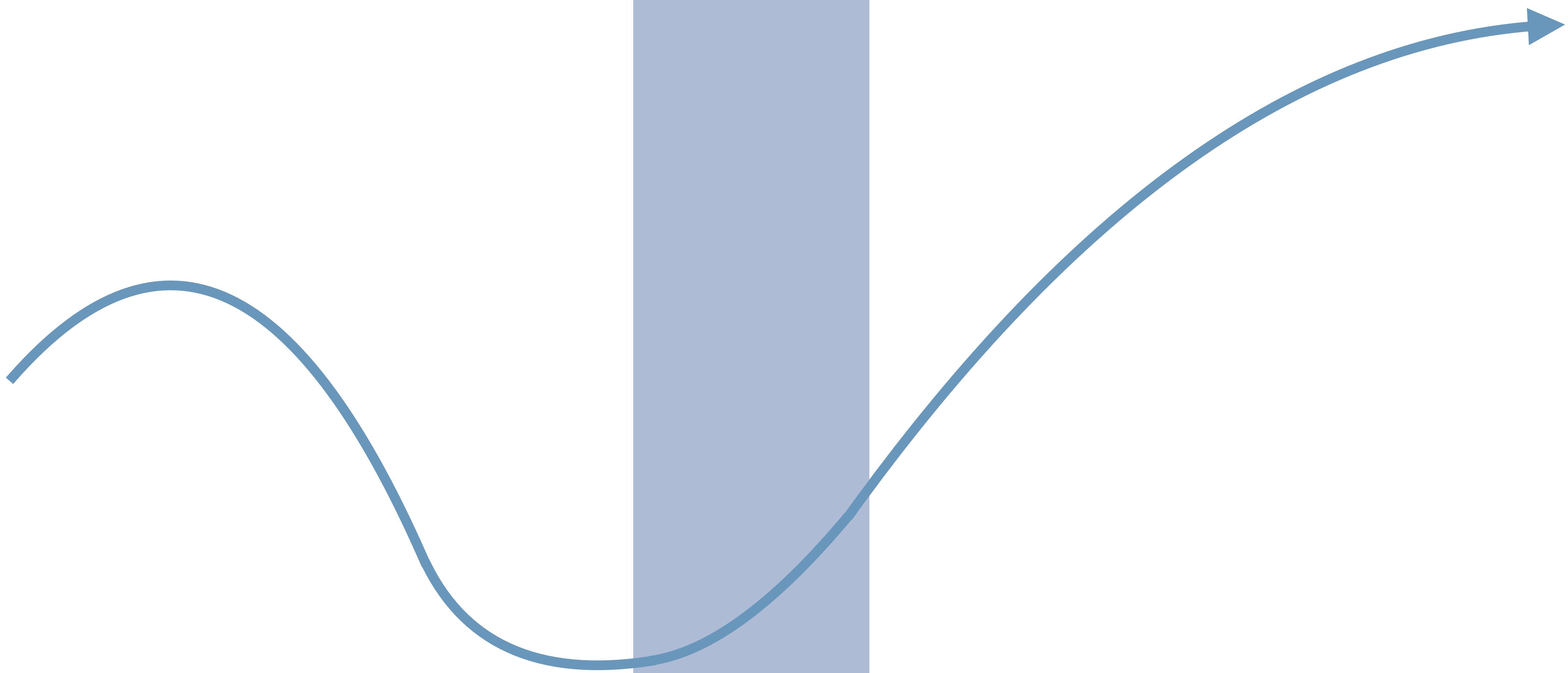


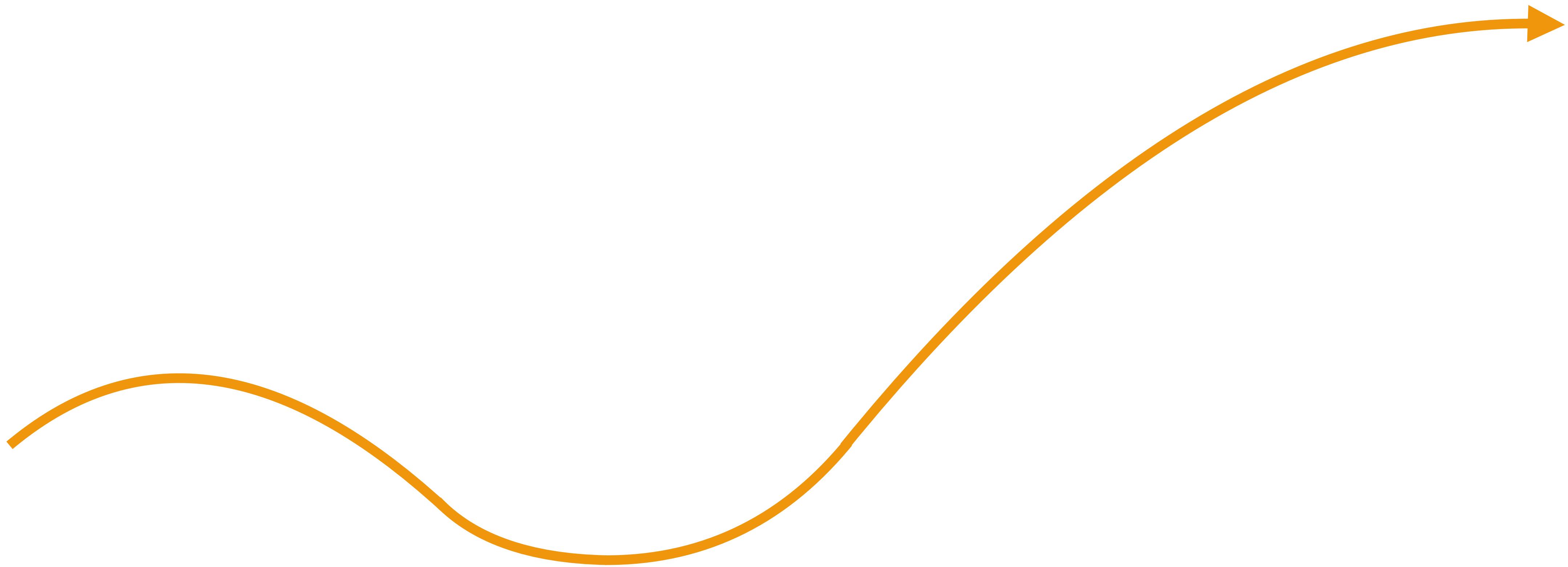




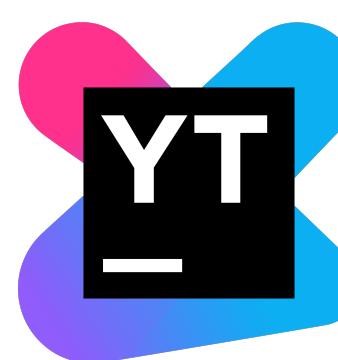
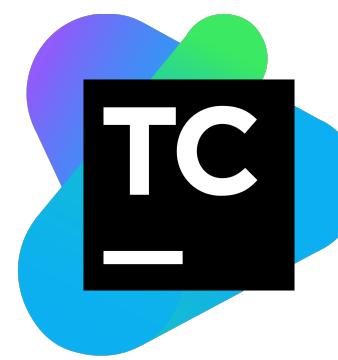
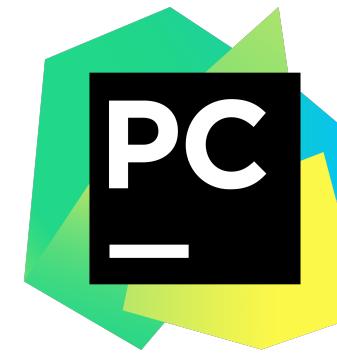
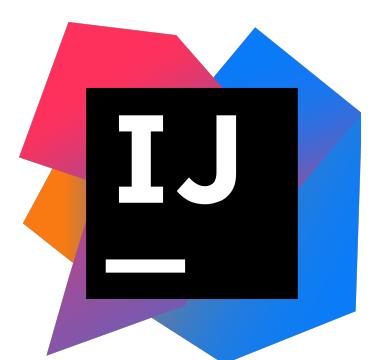




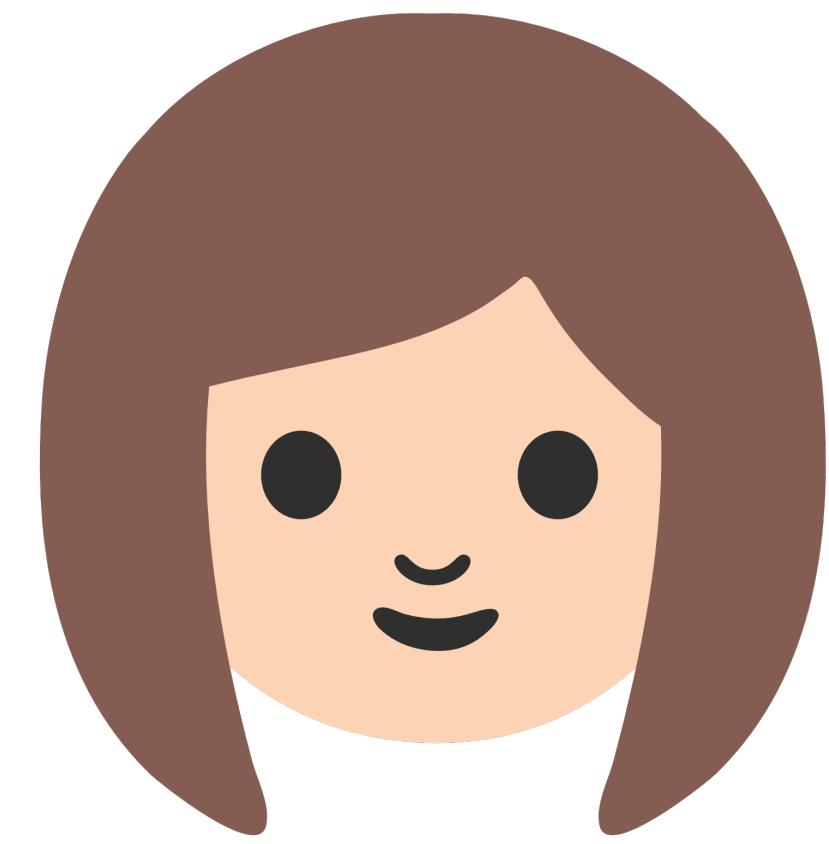




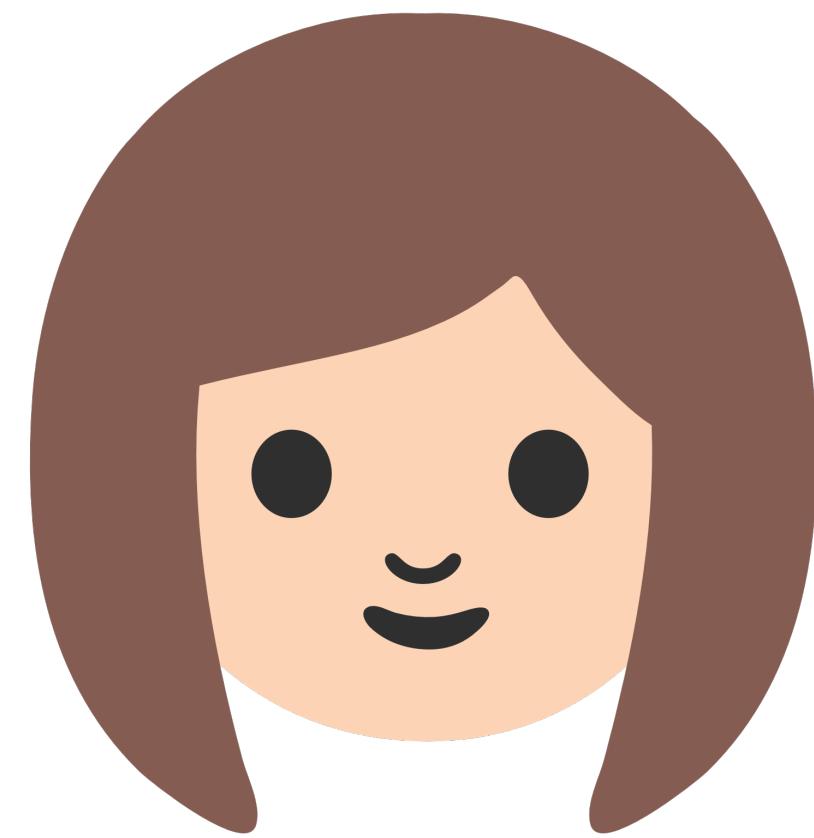




Why Kotlin?



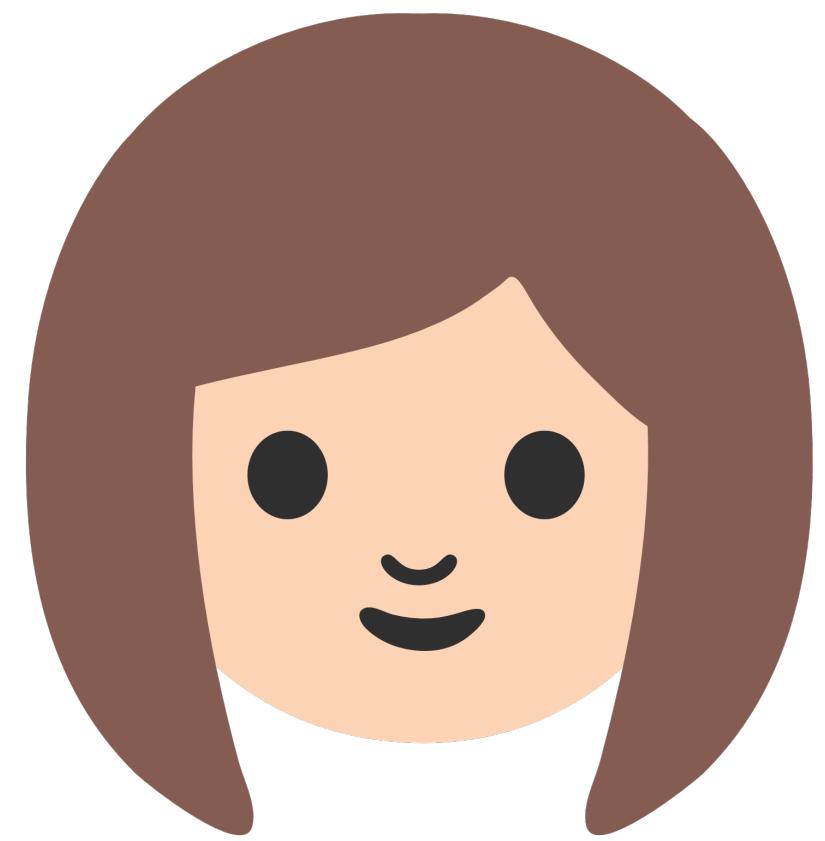
Plugin Author



Plugin Author



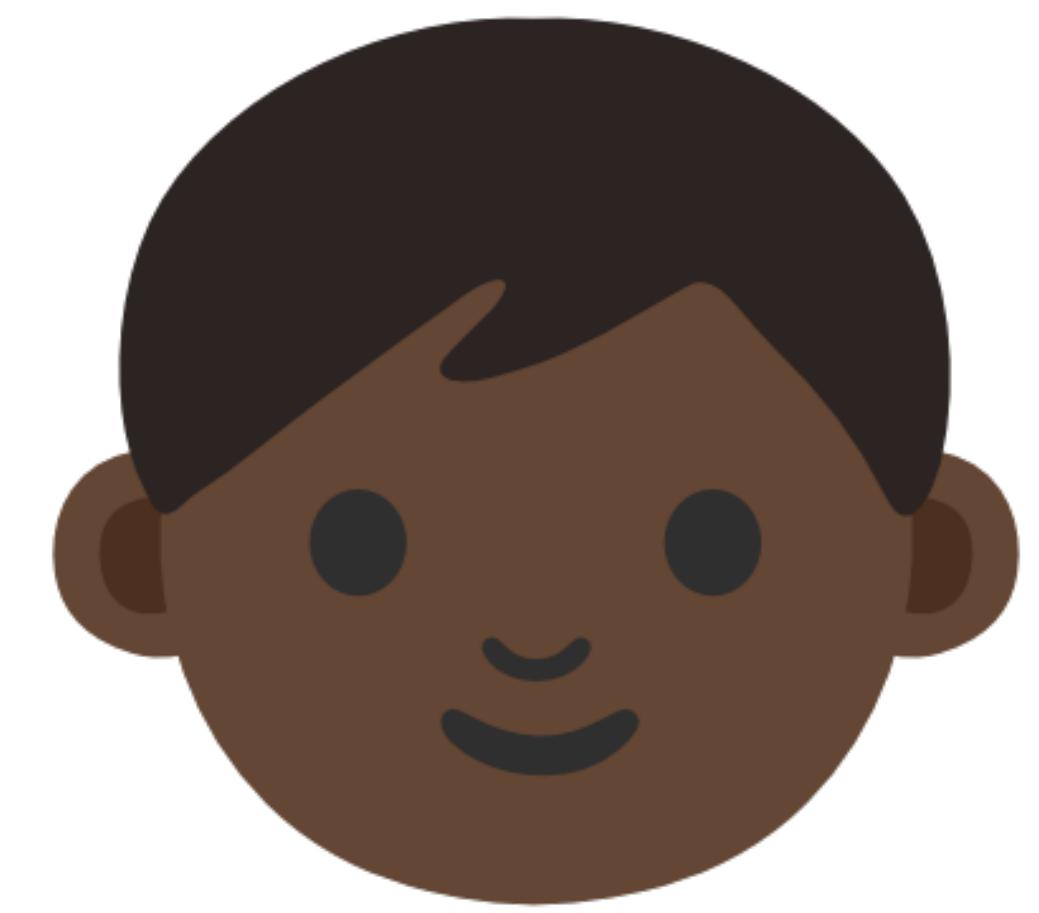
Buildscript Author



Plugin Author



Buildscript Author



App Developer

```
val firstName: String = "Jake"  
val lastName: String? = null
```

```
val firstName: String = "Jake"  
val lastName: String? = null
```

```
val firstName: String = "Jake"  
val lastName: String? = null
```

```
val firstName: String = "Jake"  
val lastName: String? = null
```

```
val firstName: String = "Jake"  
val lastName: String? = null
```

```
val firstName = "Jake"  
val lastName: String? = null
```

```
class User {
    public String getName() {
        // ...
    }
    public void setName(String name) {
        // ...
    }
}

// ^^^ Java
```

```
class User {  
    public String getName() {  
        // ...  
    }  
    public void setName(String name) {  
        // ...  
    }  
}
```

// ^^^ Java vvv Kotlin

```
val user = User()  
println("Name is " + user.name)
```

```
class User {  
    public String getName() {  
        // ...  
    }  
    public void setName(String name) {  
        // ...  
    }  
}
```

// ^^^ Java vvv Kotlin

```
val user = User()  
println("Name is " + user.name)
```

```
class User {  
    public String getName() {  
        // ...  
    }  
    public void setName(String name) {  
        // ...  
    }  
}  
  
// ^^^ Java     vvv Kotlin
```

```
val user = User()  
println("Name is ${user.name}")
```

```
class User {  
    public String getName() {  
        // ...  
    }  
    public void setName(String name) {  
        // ...  
    }  
}  
  
// ^^^ Java     vvv Kotlin
```

```
val user = User()  
println("Name is $user")
```

```
class User {  
    public String getName() {  
        // ...  
    }  
    public void setName(String name) {  
        // ...  
    }  
}
```

// ^^^ Java vvv Kotlin

```
val user = User()  
println("Name is $user")
```

```
class User {  
    var name = "Jake"  
}
```

// ^^^ Kotlin

```
class User {  
    var name = "Jake"  
}
```

// ^^^ Kotlin vvv Java

```
User user = new User();  
System.out.println("Name is " + user.getName());
```

```
class User {  
    var name = "Jake"  
}
```

// ^^^ Kotlin vvv Java

```
User user = new User();  
System.out.println("Name is " + user.getName());
```

```
class User {  
    var name = "Jake"  
}
```

// ^^^ Kotlin vvv Java

```
User user = new User();  
System.out.println("Name is " + user.getName());  
user.setName("Jane");
```

```
class User {  
    var name = "Jake"  
}
```

// ^^^ Kotlin vvv Java

```
User user = new User();  
System.out.println("Name is " + user.getName());  
user.setName("Jane");
```

```
val user = User()
```

```
val user = User()  
user = User()
```

```
val user = User()  
user = User()
```

```
var currentUser = User()  
currentUser = User()
```

```
fun Date.isTuesday(): Boolean {  
    return day == 2  
}
```

```
fun Date.isTuesday(): Boolean {
    return day == 2
}

val epoch = Date(1970, 0, 0)
if (epoch.isTuesday()) {
    println("The epoch was a Tuesday.")
} else {
    println("The epoch was not a Tuesday.")
}
```

```
fun Date.isTuesday(): Boolean {
    return day == 2
}

val epoch = Date(1970, 0, 0)
if (epoch.isTuesday()) {
    println("The epoch was a Tuesday.")
} else {
    println("The epoch was not a Tuesday.")
}
```

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fun Date.isTuesday(): Boolean {
    return day == 2
}

val epoch = Date(1970, 0, 0)
if (epoch.isTuesday()) {
    println("The epoch was a Tuesday.")
} else {
    println("The epoch was not a Tuesday.")
}

// ^^^ Kotlin    vvv Java

DateKt.isTuesday(date)
```

```
val executor = Executors.newSingleThreadExecutor();
executor.execute { println("Background thread!") }
```

```
val executor = Executors.newSingleThreadExecutor();
val foo = Foo()
executor.execute(foo::printIt)

class Foo {
    fun printIt() {
        println("Background thread!")
    }
}
```

```
val executor = Executors.newSingleThreadExecutor();
val foo = Foo()
executor.execute(foo::printIt)
```

```
class Foo {
    fun printIt() {
        println("Background thread!")
    }
}
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter({ item -> item % 2 != 0 })
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter({ item -> item % 2 != 0 })
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```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}
```

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val items = listOf(1, 2, 3)  
val odds = items.filter({ it % 2 != 0 })
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter() { it % 2 != 0 }
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter { it % 2 != 0 }
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val oddList = items.filter { it % 2 != 0 }  
val oddSet = items.filterTo(mutableListOf()) { it % 2 != 0 }
```

```
fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter { it % 2 != 0 }
```

```
inline fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {  
    // ...  
}  
  
val items = listOf(1, 2, 3)  
val odds = items.filter { it % 2 != 0 }
```

```
inline fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (predicate(item)) destination.add(item)
    }
    return destination
}

val items = listOf(1, 2, 3)
val odds = items.filter { it % 2 != 0 }
```

```
inline fun <T> List<T>.filter(predicate: (T) -> Boolean): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (predicate(item)) destination.add(item)
    }
    return destination
}

val items = listOf(1, 2, 3)
val destination = mutableListOf<Int>()
for (item in items) {
    if (item % 2 != 0) destination.add(item)
}
val odds = destination
```

```
fun <T> List<T>.filterIsInstance(c: Class<T>): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (c.isInstance(item)) destination.add(item)
    }
    return destination
}
```

```
fun <T> List<T>.filterIsInstance(c: Class<T>): List<T> {  
    val destination = mutableListOf<T>()  
    for (item in this) {  
        if (c.isInstance(item)) destination.add(item)  
    }  
    return destination  
}
```

```
fun <T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item in T) destination.add(item)
    }
    return destination
}
```

```
fun <T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item in T) destination.add(item)
    }
    return destination
}
```

```
inline fun <T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item in T) destination.add(item)
    }
    return destination
}
```

```
inline fun <reified T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item is T) destination.add(item)
    }
    return destination
}
```

```
inline fun <reified T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item in T) destination.add(item)
    }
    return destination
}
```

```
inline fun <reified T> List<T>.filterIsInstance(): List<T> {
    val destination = mutableListOf<T>()
    for (item in this) {
        if (item in T) destination.add(item)
    }
    return destination
}

val list = listOf(1, 2f, 3, 4f)
val ints = list.filterIsInstance<Int>()
```

```
inline fun <reified T> List<T>.filterIsInstance(): List<T> {  
    val destination = mutableListOf<T>()  
    for (item in this) {  
        if (item in T) destination.add(item)  
    }  
    return destination  
}
```

```
val list = listOf(1, 2f, 3, 4f)  
val ints = list.filterIsInstance<Int>()
```

```
ALOAD 7 # item  
INSTANCEOF java/lang/Integer  
IFEQ L8  
ALOAD 5 # destination  
ALOAD 7 # item  
INVOKEINTERFACE java/util/Collection.add (Ljava/lang/Object;)Z
```

```
class User {  
    val name = "Jake"  
}
```

```
class User(name: String) {  
    val name = name  
}
```

```
class User(val name: String) {  
}
```

```
class User(val name: String)
```

```
class User(val name: String)
```

```
val jake = User("Jake")
```

```
println("Hello, $jake!")
```

```
class User(val name: String)
```

```
val jake = User("Jake")  
println("Hello, $jake!")
```

Hello, User@3a71f4dd!

```
data class User(val name: String)
```

```
val jake = User("Jake")  
println("Hello, $jake!")
```

Hello, User@3a71f4dd!

```
data class User(val name: String)
```

```
val jake = User("Jake")  
println("Hello, $jake!")
```

Hello, User(name=Jake)!

```
data class User(val name: String)
```

```
val jake = User("Jake")  
println("Hello, $jake!")
```

Hello, User(name=Jake)!

```
class UserPersistence(db: SqliteDatabase) {
    private val deleteByName
        = db.createStatement("DELETE FROM user WHERE name = ?")

    fun delete(name: String) {
        deleteByName.bind(1, name)
        deleteByName.execute()
    }
}
```

```
class UserPersistence(db: SqliteDatabase) {
    private val deleteByName
        = db.createStatement("DELETE FROM user WHERE name = ?")

    fun delete(name: String) {
        deleteByName.bind(1, name)
        deleteByName.execute()
    }
}
```

```
class UserPersistence(db: SqliteDatabase) {
    private val deleteByName by lazy {
        db.createStatement("DELETE FROM user WHERE name = ?")
    }

    fun delete(name: String) {
        deleteByName.bind(1, name)
        deleteByName.execute()
    }
}
```

```
val deleteByName by lazy {
    db.createStatement("DELETE FROM user WHERE name = ?")
}
```

```
val deleteByName by lazy {
    db.createStatement("DELETE FROM user WHERE name = ?")
}
```

```
var name by Delegates.observable("Jane") {
    prop, old, new ->
    println("Name changed from $old to $new")
}
```

```
val deleteByName by lazy {
    db.createStatement("DELETE FROM user WHERE name = ?")
}
```

```
var name by Delegates.observable("Jane") {
    prop, old, new ->
    println("Name changed from $old to $new")
}
```

```
var address by Delegates.notNull<String>()
```

```
val deleteByName by lazy {
    db.createStatement("DELETE FROM user WHERE name = ?")
}
```

```
var name by Delegates.observable("Jane") {
    prop, old, new ->
    println("Name changed from $old to $new")
}
```

```
var address by Delegates.notNull<String>()
```

```
val nameView by bindView<TextView>(R.id.name)
```

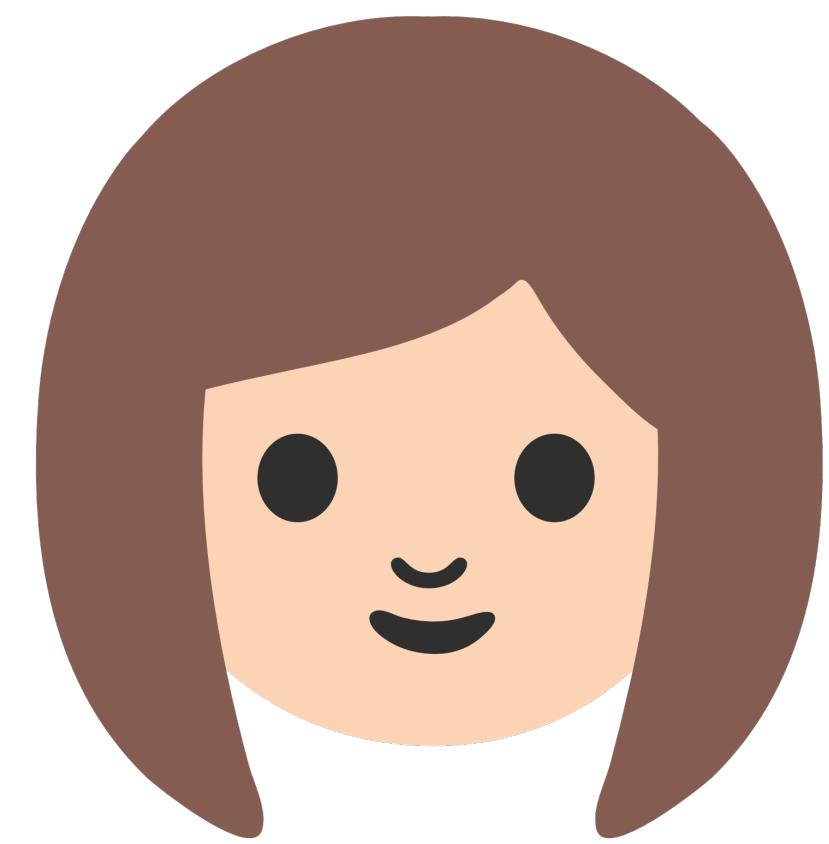
```
val deleteByName by lazy {
    db.createStatement("DELETE FROM user WHERE name = ?")
}

var name by Delegates.observable("Jane") { prop, old, new ->
    println("Name changed from $old to $new")
}

var address by Delegates.notNull<String>()

val nameView by bindView<TextView>(R.id.name)
```

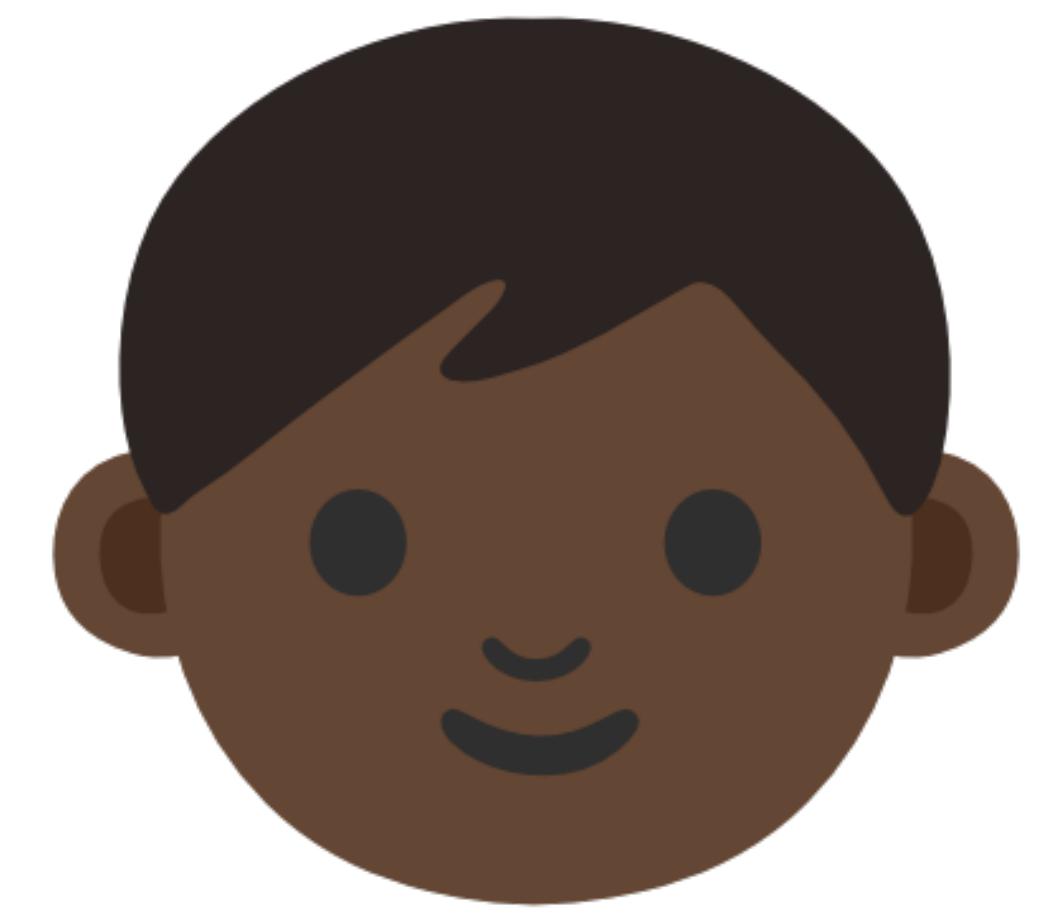
```
fun main(vararg args: String) = runBlocking<Unit> {
    val jobs = List(100_000) {
        launch(CommonPool) {
            delay(1000L)
            print(".")
        }
    }
    jobs.forEach { it.join() }
}
```



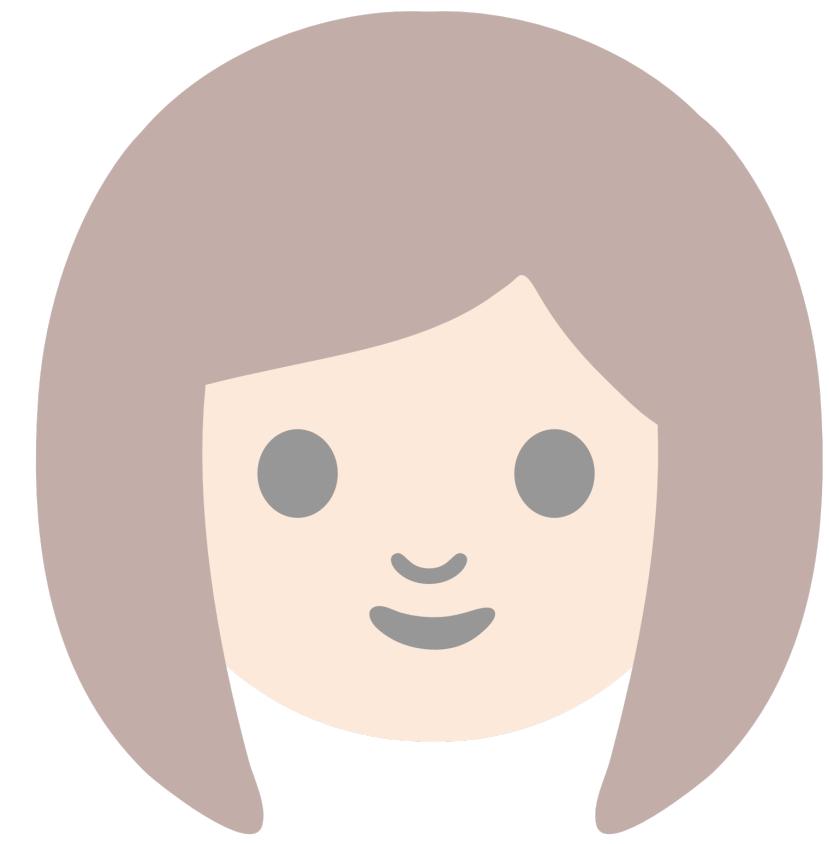
Plugin Author



Buildscript Author



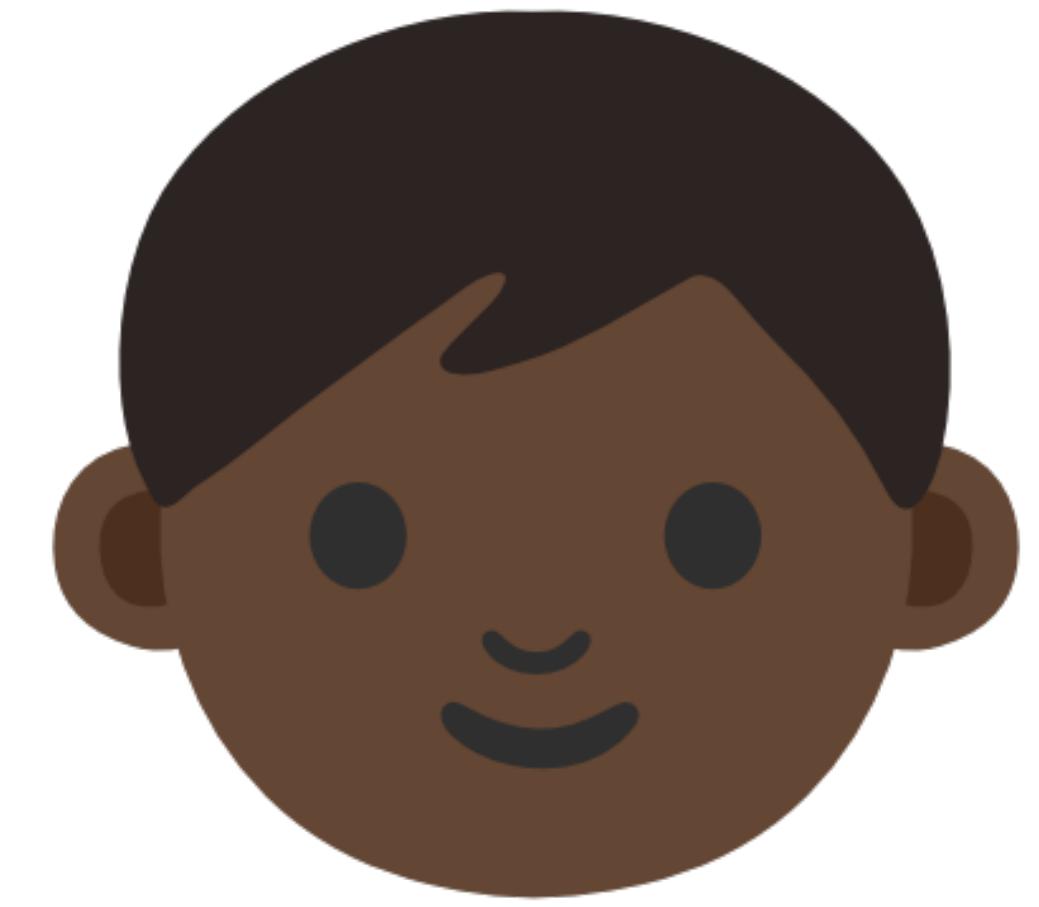
App Developer



Plugin Author



Buildscript Author



App Developer

```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

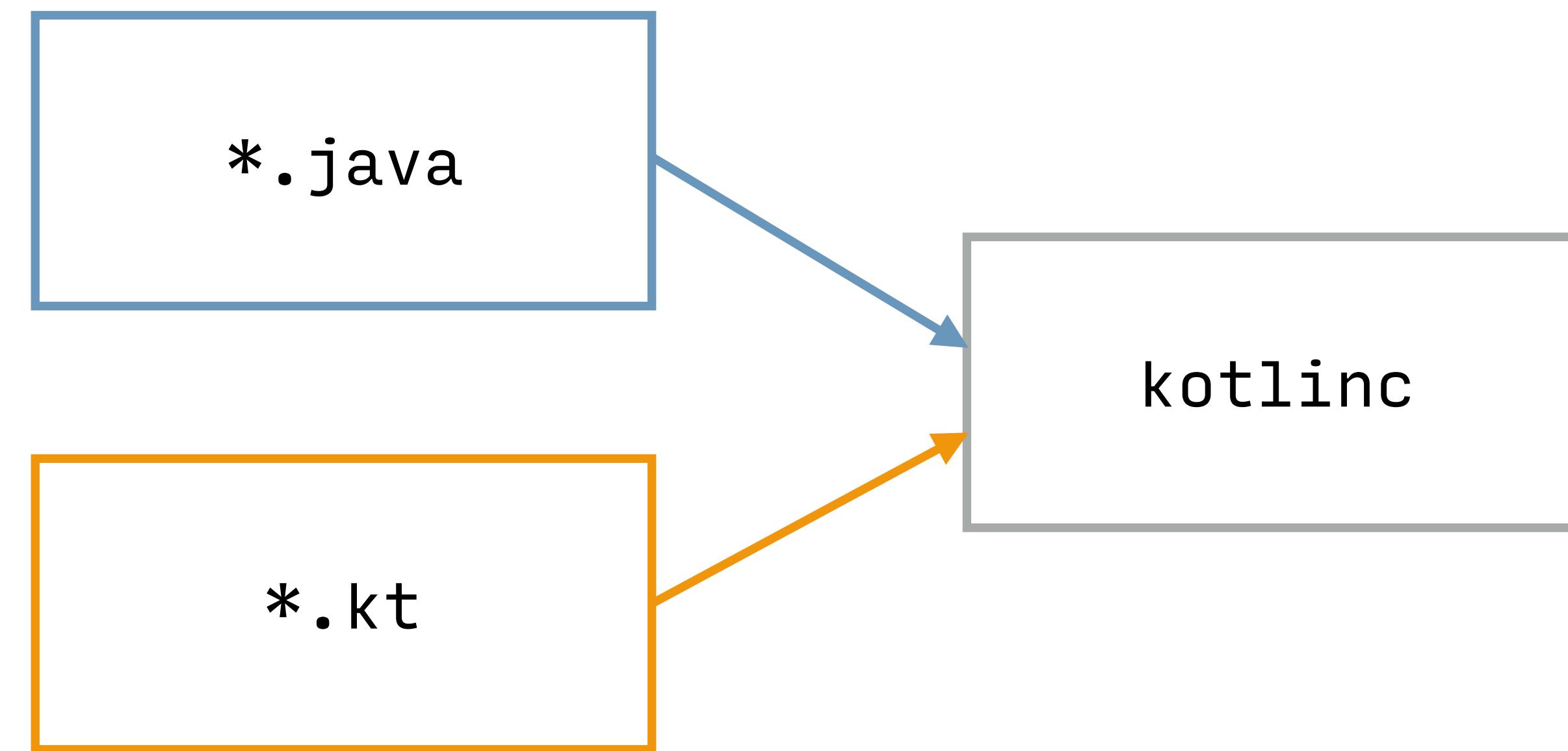
```
src/  
  main/  
    java/  
      Fizz.java  
      Buzz.java
```

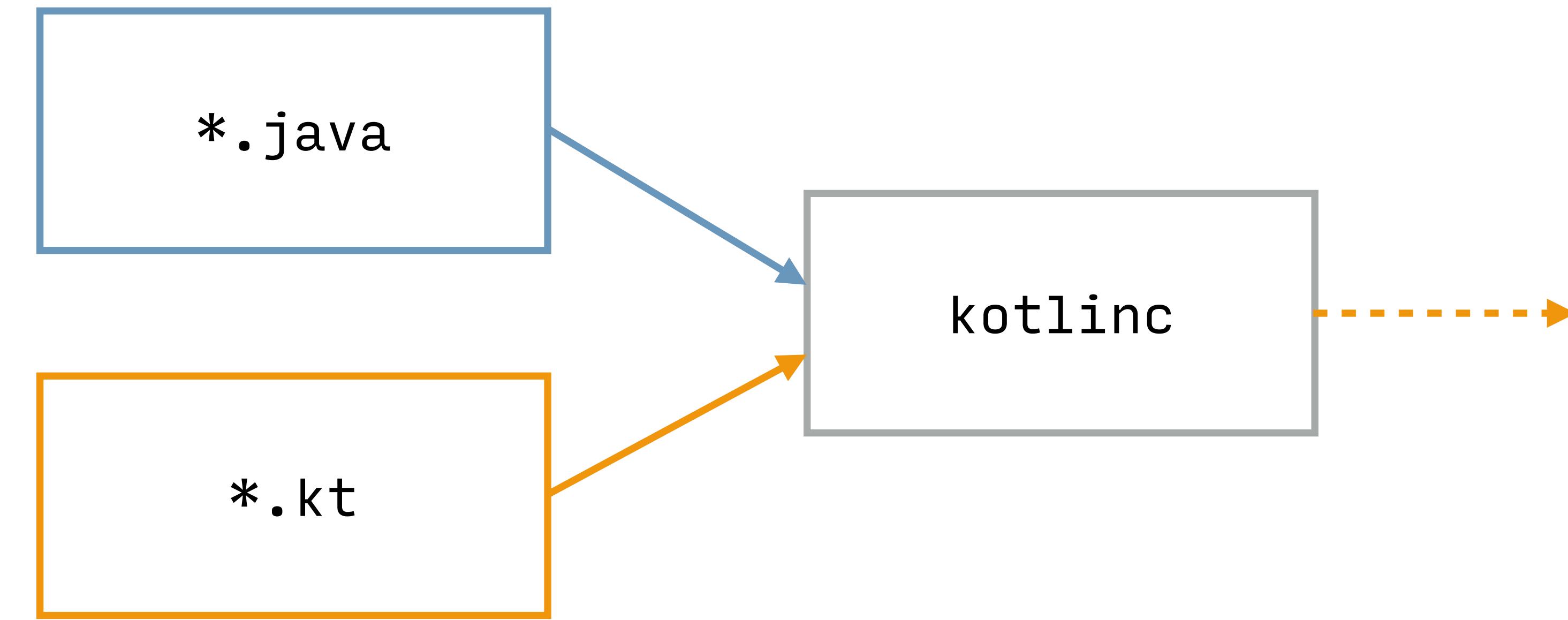
```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

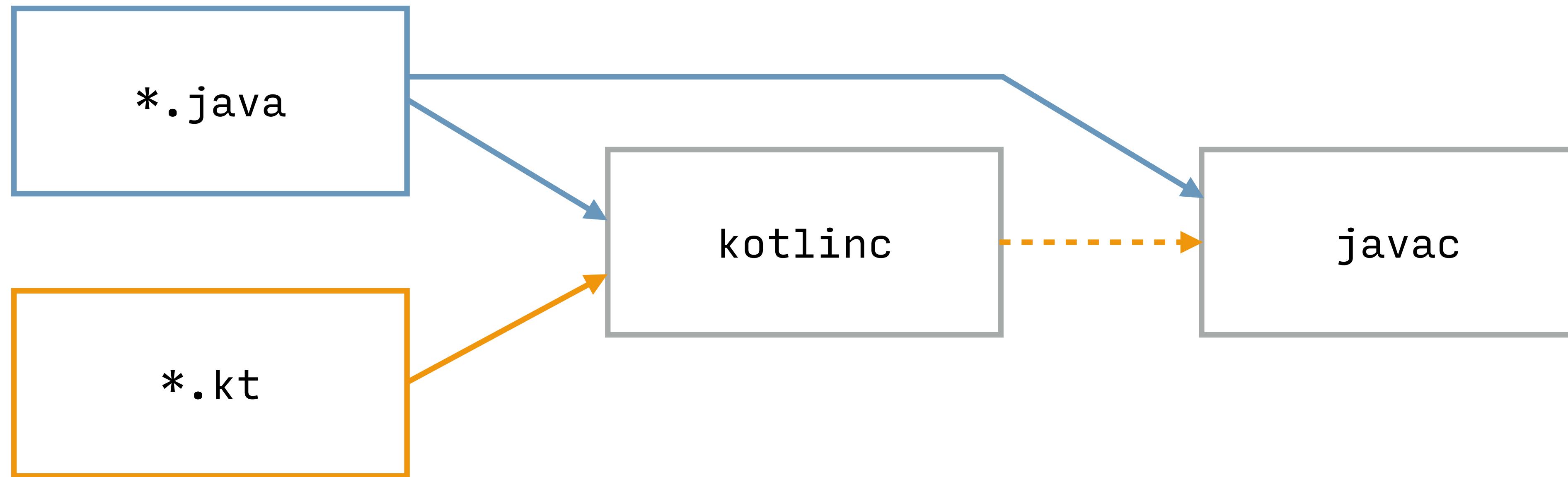
```
src/  
  main/  
    java/  
      Fizz.java  
      Buzz.kt
```

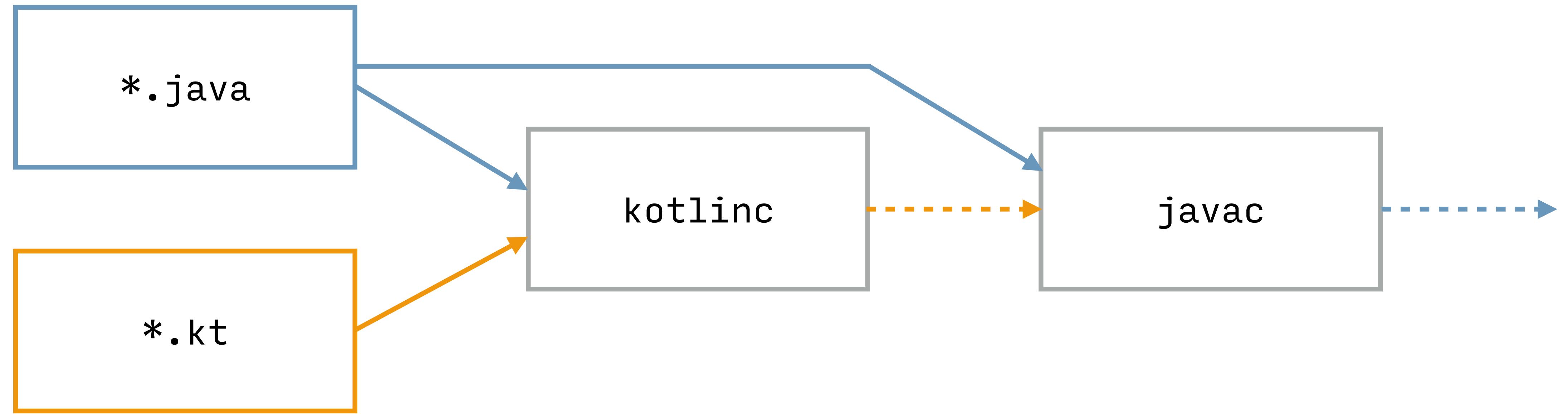
*.java

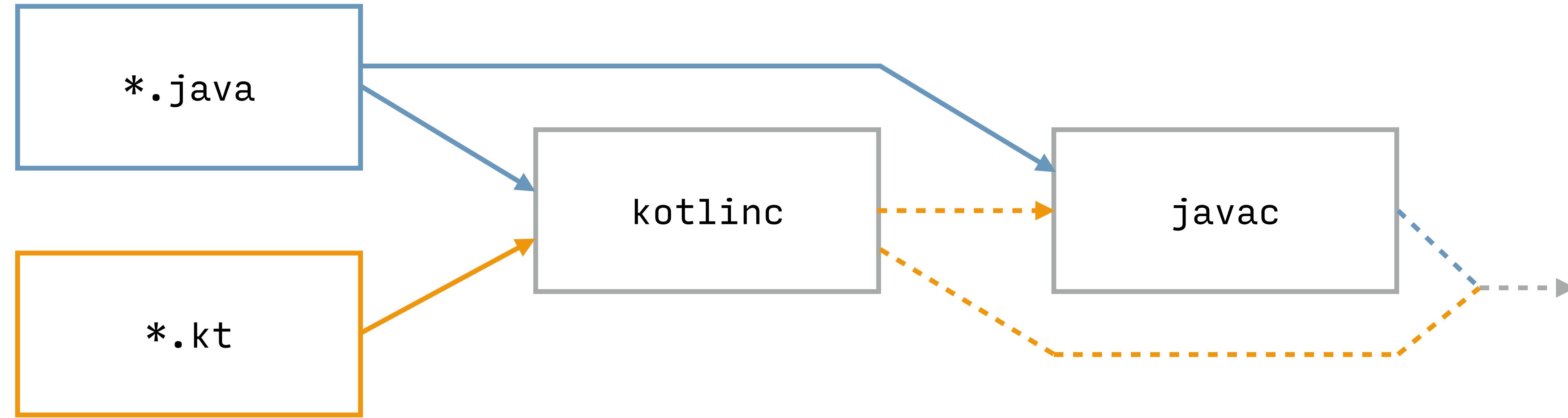
*.kt

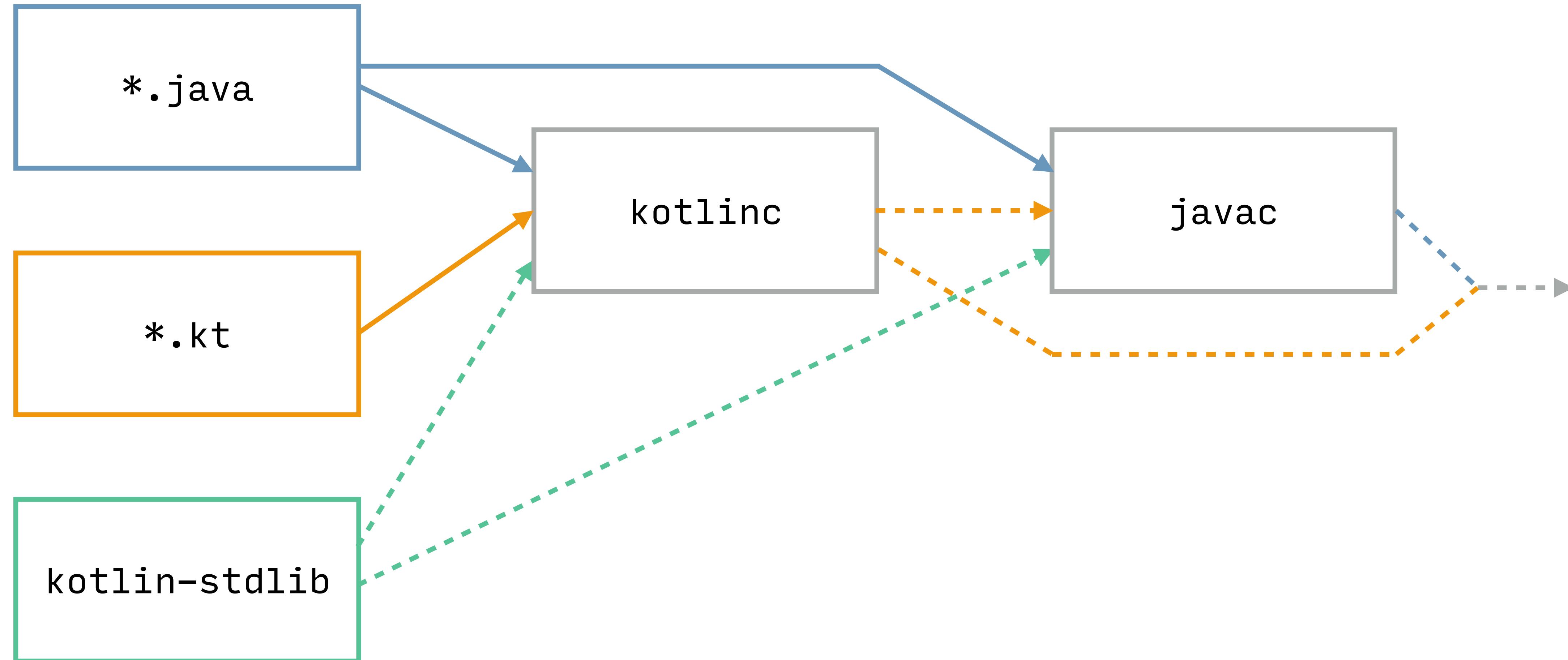


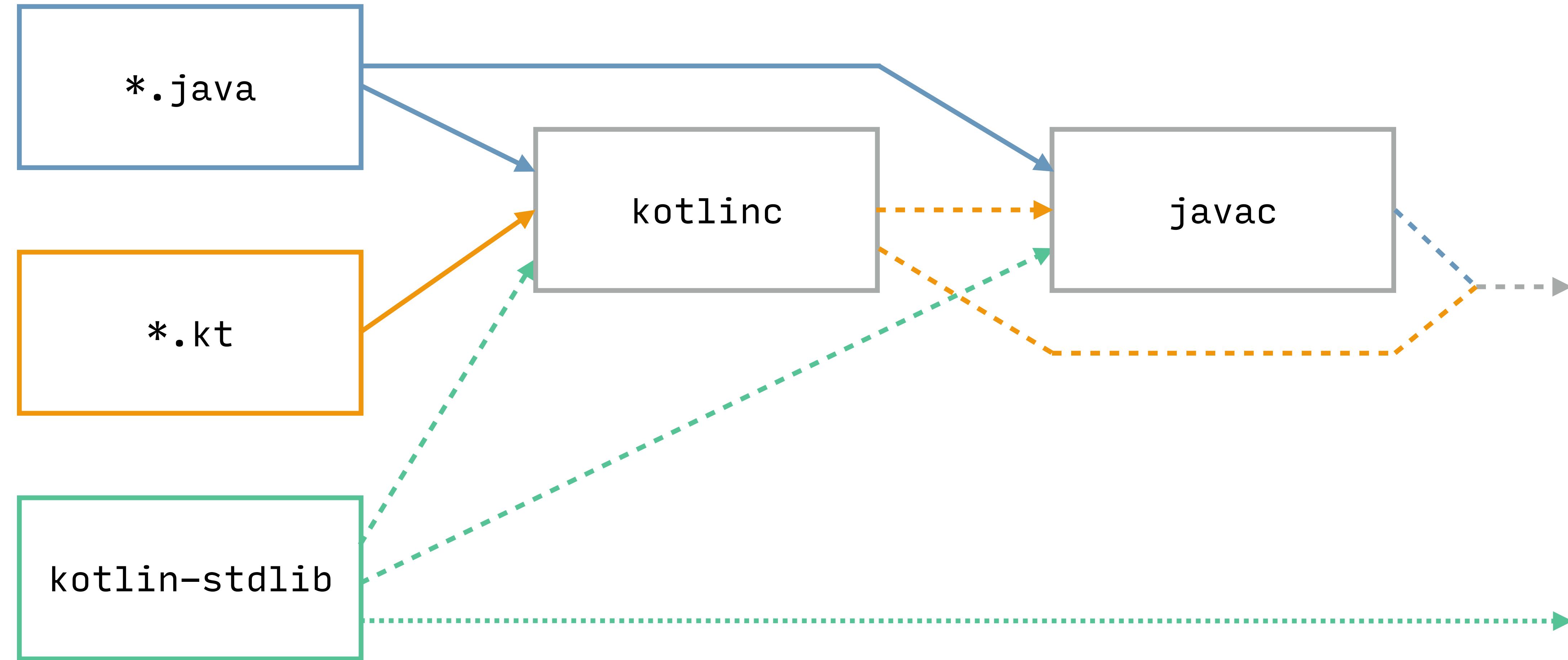


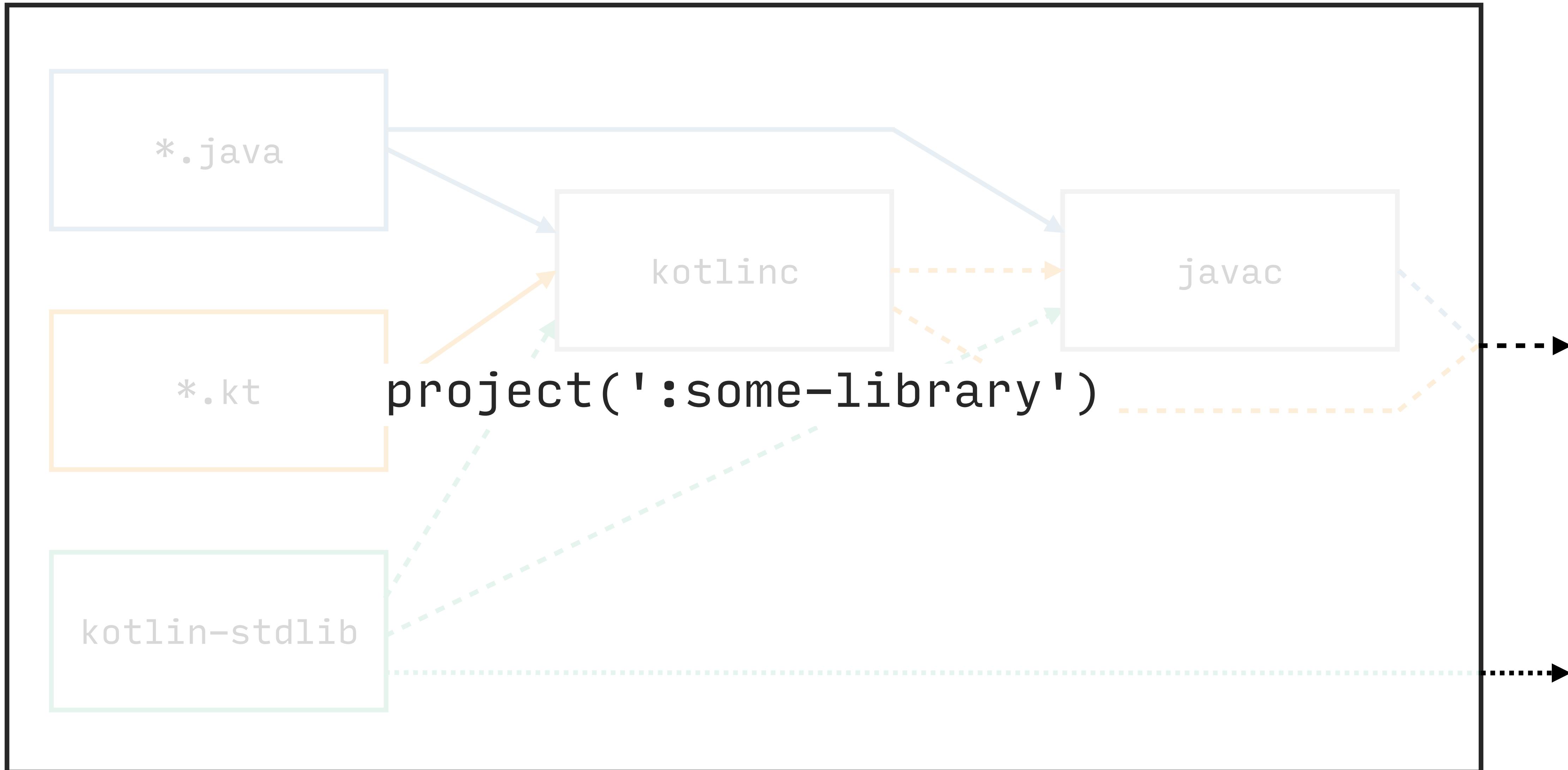












```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

```
apply plugin: 'org.jetbrains.kotlin.android'
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'
```

```
apply plugin: 'org.jetbrains.kotlin.android'
```

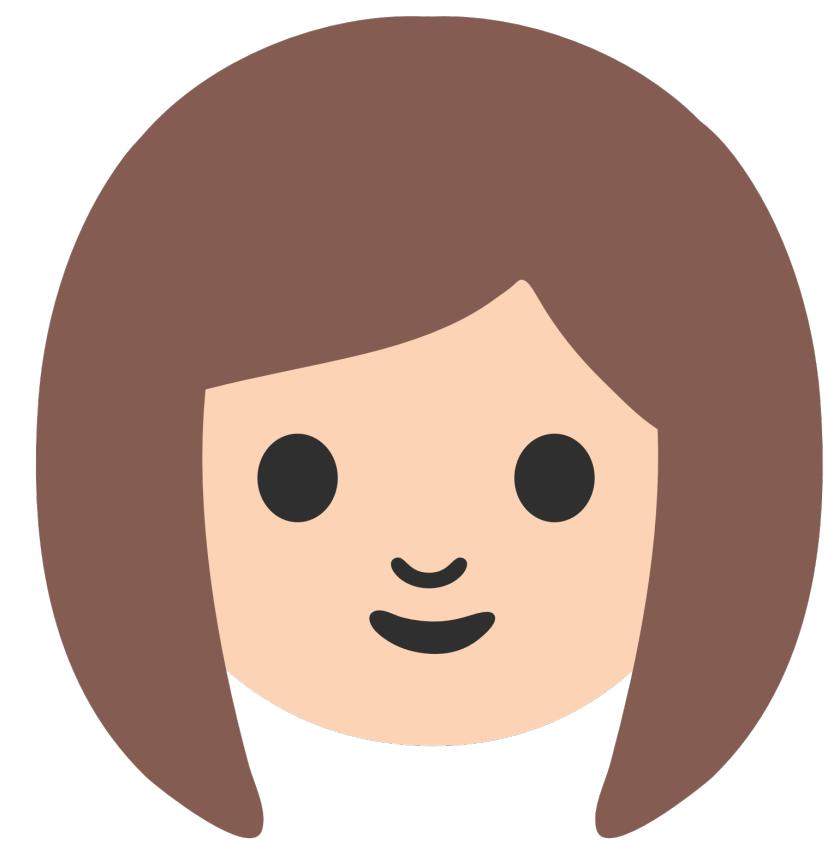
```
apply plugin: 'kotlin2js'
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'  
apply plugin: 'org.jetbrains.kotlin.android'  
apply plugin: 'kotlin2js'  
apply plugin: 'konan' # Different classpath dependency
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'  
apply plugin: 'org.jetbrains.kotlin.android'  
apply plugin: 'kotlin2js'  
apply plugin: 'konan' # Different classpath dependency
```

or

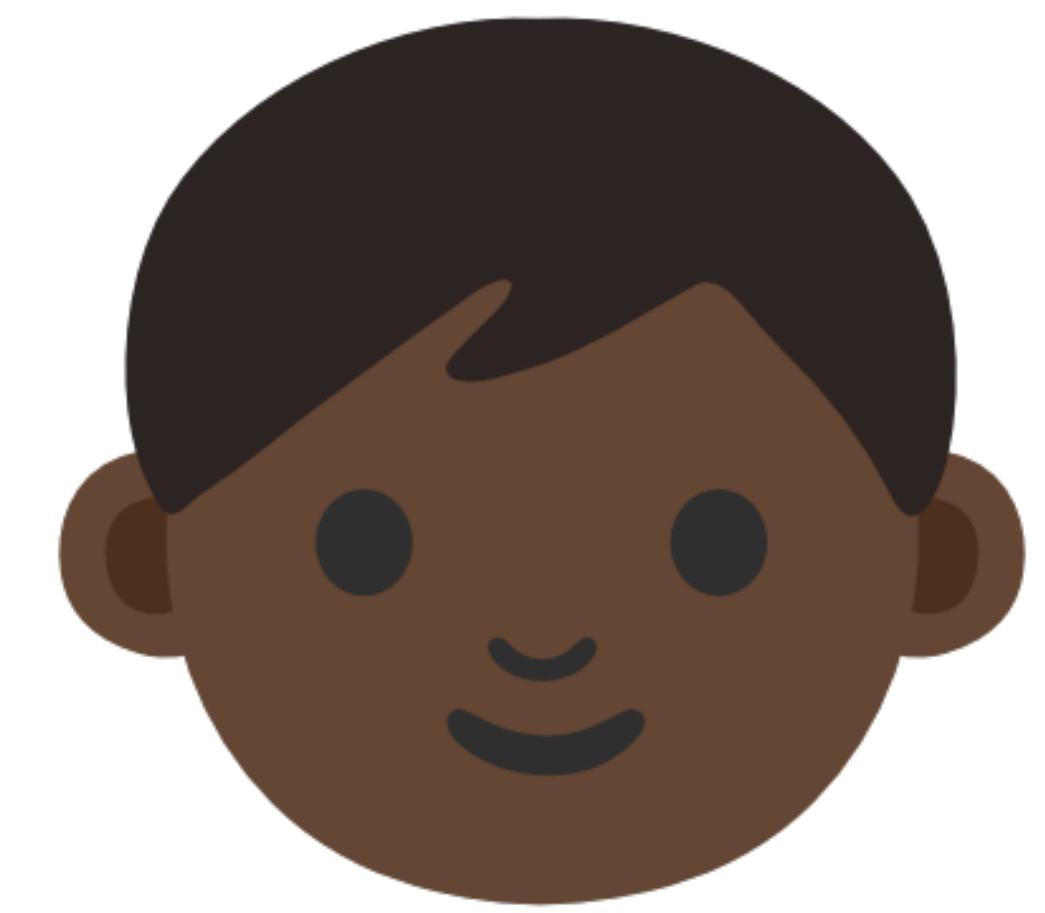
```
apply plugin: 'org.jetbrains.kotlin.platform.common'  
apply plugin: 'org.jetbrains.kotlin.platform.jvm'  
apply plugin: 'org.jetbrains.kotlin.platform.js'  
apply plugin: 'konan' # Different classpath dependency
```



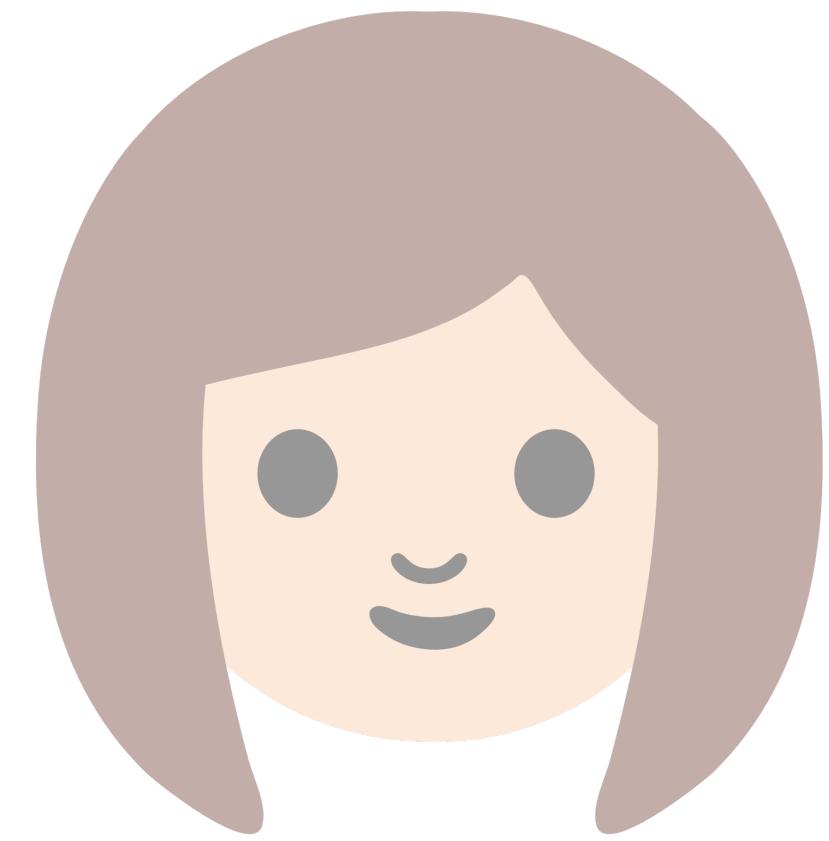
Plugin Author



Buildscript Author



App Developer



Plugin Author



Buildscript Author



App Developer

```
apply plugin: 'org.jetbrains.kotlin.jvm'  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8  
  
dependencies {  
    compile deps.kotlin.stdLibJre8  
    compile deps.javaPoet  
    compile deps.autoCommon  
  
    compileOnly deps.autoService  
    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8  
  
dependencies {  
    compile deps.kotlin.stdLibJre8  
    compile deps.javaPoet  
    compile deps.autoCommon  
  
    compileOnly deps.autoService  
    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

```
apply(plugin: 'org.jetbrains.kotlin.jvm')
apply plugin: 'org.jetbrains.kotlin.kapt'

sourceCompatibility = JavaVersion.VERSION_1_8
targetCompatibility = JavaVersion.VERSION_1_8

dependencies {
    compile deps.kotlin.stdLibJre8
    compile deps.javaPoet
    compile deps.autoCommon

    compileOnly deps.autoService
    kapt deps.autoService

    testCompile deps.junit
    testCompile deps.truth
    testCompile deps.compileTesting
}
```

```
applysingletonMap('plugin', 'org.jetbrains.kotlin.jvm'))  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8  
  
dependencies {  
    compile deps.kotlin.stdLibJre8  
    compile deps.javaPoet  
    compile deps.autoCommon  
  
    compileOnly deps.autoService  
    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

```
applysingletonMap('plugin', 'org.jetbrains.kotlin.jvm'))  
apply plugin: 'org.jetbrains.kotlin.kapt'
```

```
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8
```

```
dependencies {  
    compile deps.kotlin.stdLibJre8  
    compile deps.javaPoet  
    compile deps.autoCommon
```

```
    compileOnly deps.autoService  
    kapt deps.autoService
```

```
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting
```

```
}
```

```
applysingletonMap('plugin', 'org.jetbrains.kotlin.jvm'))  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
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    kapt deps.autoService  
  
    testCompile deps.junit  
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    testCompile deps.compileTesting  
}
```

```
applysingletonMap('plugin', 'org.jetbrains.kotlin.jvm'))  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8  
  
dependencies {  
    compile deps.kotlin.stdLibJre8  
    compile(deps.javaPoet)  
    compile deps.autoCommon  
  
    compileOnly deps.autoService  
    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

```
applysingletonMap('plugin', 'org.jetbrains.kotlin.jvm'))  
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    compileOnly deps.autoService  
    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

```
android {
    // ...

    testOptions {
        unitTests.all {
            systemProperty('robolectric.dependency.repo.id', 'example-nexus')
            systemProperty('robolectric.dependency.repo.url',
                'https://nexus.example.com/content/groups/public')
        }
    }
}
```

```
    android {  
        // ...  
  
        testOptions {  
            unitTests.all
```

	assembleInternalDebug	task	DefaultTask
	assembleProductionRelease	task	DefaultTask
	assembleProductionReleaseUnitTest	task	DefaultTask
	compileInternalDebugSources	task	DefaultTask
	compileInternalReleaseShaders	task	ShaderCompile
p	extensions		ExtensionContainer
p	plugins		PluginContainer
p	name		String
p	projectDir		File
p	project		Project
m	project(String path)	+ file('donfood_keystore')	Project

```
android {  
    // ...  
  
    testOptions {  
        unitTests.all {  
            system  
        }  
    }  
}  
}
```

No suggestions

```
build.gradle
```

```
apply plugin: 'org.jetbrains.kotlin.jvm'  
apply plugin: 'org.jetbrains.kotlin.kapt'  
  
sourceCompatibility = JavaVersion.VERSION_1_8  
targetCompatibility = JavaVersion.VERSION_1_8  
  
dependencies {  
    compile deps.kotlin.stdLibJre8  
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    kapt deps.autoService  
  
    testCompile deps.junit  
    testCompile deps.truth  
    testCompile deps.compileTesting  
}
```

build.gradle.kts

```
apply {
    plugin('org.jetbrains.kotlin.jvm')
    plugin('org.jetbrains.kotlin.kapt')
}

java {
    sourceCompatibility = JavaVersion.VERSION_1_8
    targetCompatibility = JavaVersion.VERSION_1_8
}

dependencies {
    compile(deps.kotlin.stdLibJre8)
    compile(deps.javaPoet)
    compile(deps.autoCommon)

    compileOnly(deps.autoService)
    kapt(deps.autoService)

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}
```

build.gradle.kts

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apply {
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    testCompile(deps.junit)
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}
```

build.gradle.kts

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apply {
    plugin('org.jetbrains.kotlin.jvm')
    plugin('org.jetbrains.kotlin.kapt')
}

java {
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    compileOnly(deps.autoService)
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    testCompile(deps.junit)
    testCompile(deps.truth)
    testCompile(deps.compileTesting)
}
```

Pleasant Build Script Authoring with Kotlin



Rodrigo B. de
Oliveira

*Principal Engineer at
Gradle Inc.*

Friday, June 23 - 2:50 PM

Room: MEDITERRANEAN II

Since Gradle 3.0, Kotlin - the expressive, performant and strongly typed language from JetBrains - can be used to author Gradle build scripts.

Gradle build scripts authored in Kotlin provide a richer IDE experience, with more precise content assist, quicker access to documentation, better source code navigation, refactoring and more.

In this talk you will learn how you and your team can start taking advantage of the improved IDE support and faster configuration times.

Powering-up your builds with Kotlin



Nadav Cohen

*Developer Productivity
at Netflix*



Rodrigo B. de
Oliveira

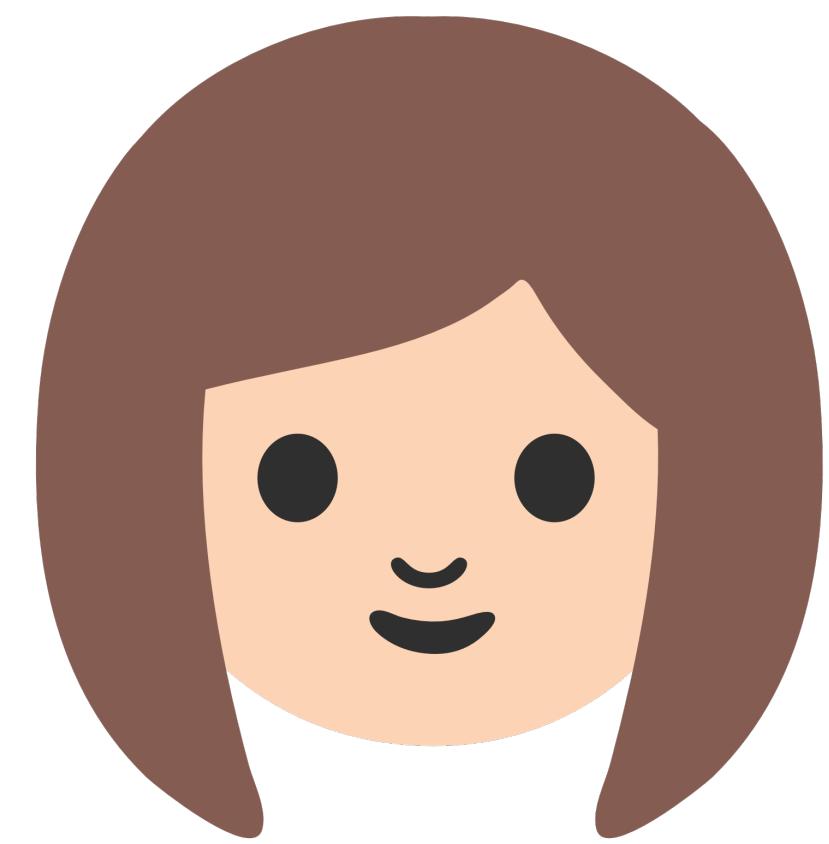
*Principal Engineer at
Gradle Inc.*

Friday, June 23 - 3:45 PM

Room: MEDITERRANEAN I

Gradle now supports a Kotlin-based DSL that allows for better tooling, type-safety, and unprecedented expressiveness. What problems does Gradle Script Kotlin solve? How would you convert existing code to Kotlin? And how would it interact with Groovy in the process?

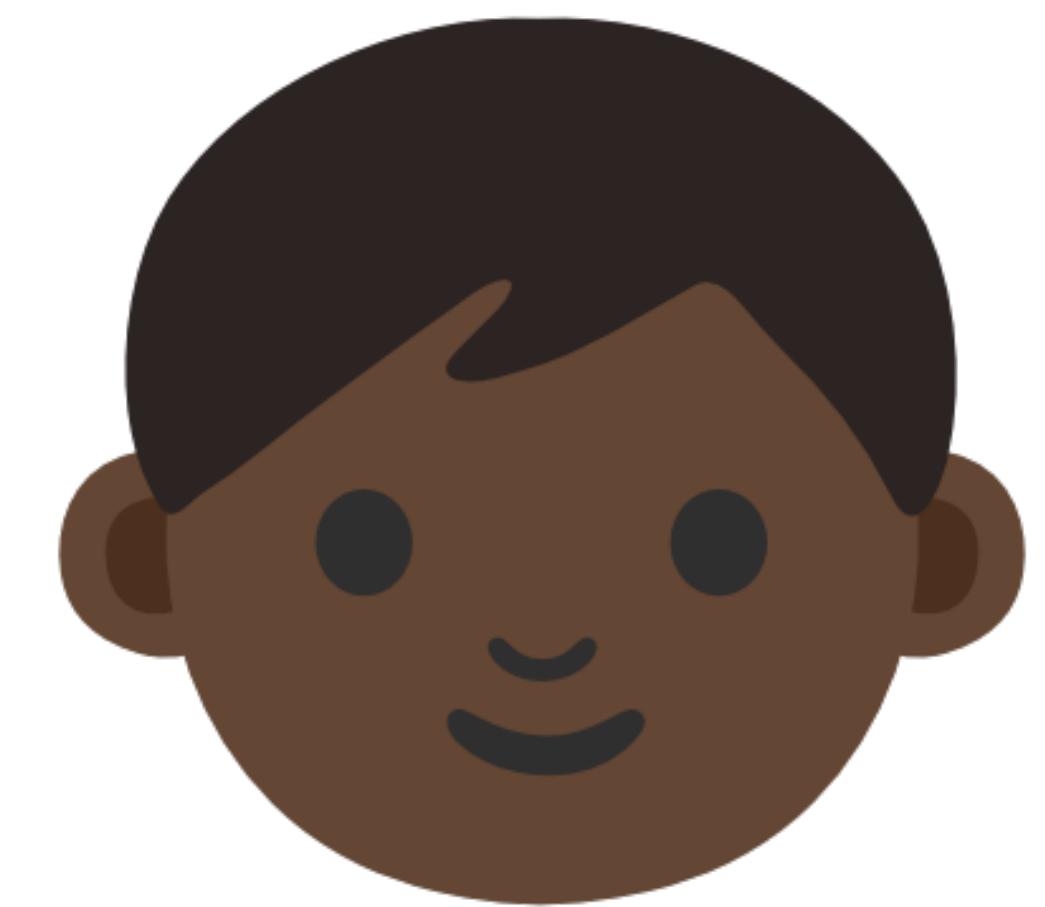
In this live coding session, we will walk through several Groovy-based build examples and convert them to Kotlin. In this process, we'll uncover a few interesting language features and demonstrate how your builds can leverage them to take your builds to the next level.



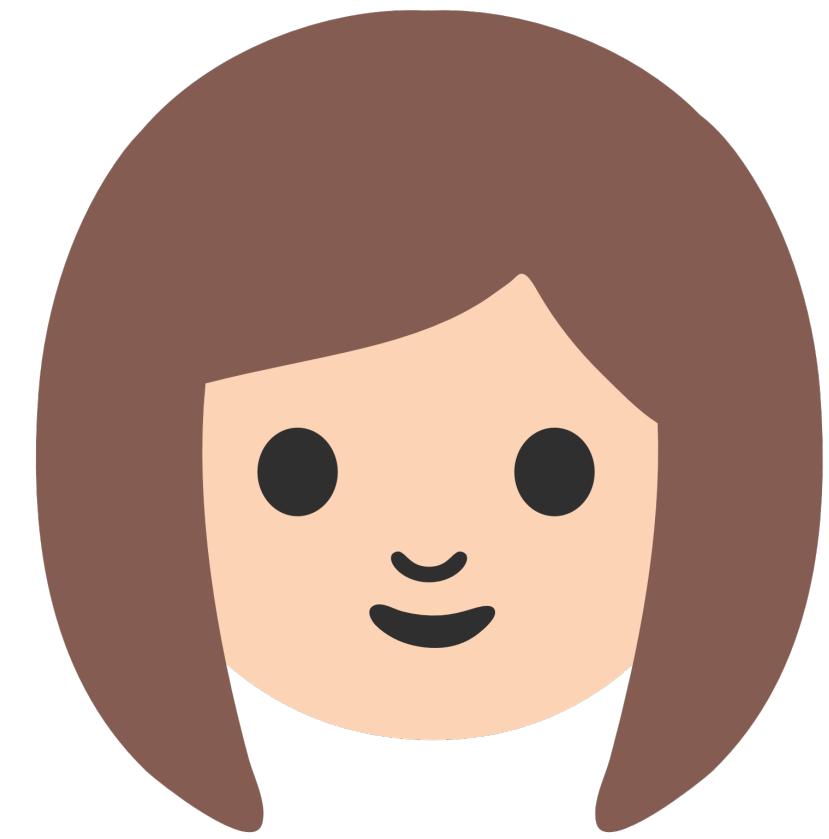
Plugin Author



Buildscript Author



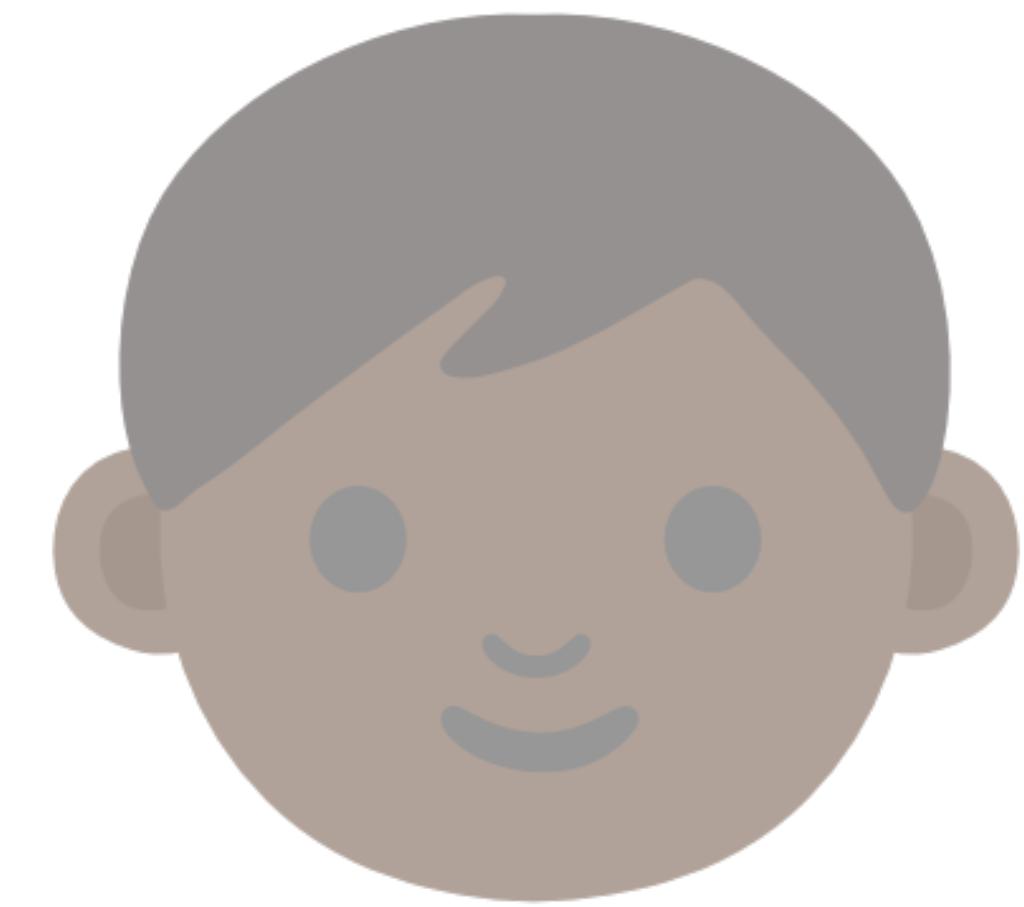
App Developer



Plugin Author



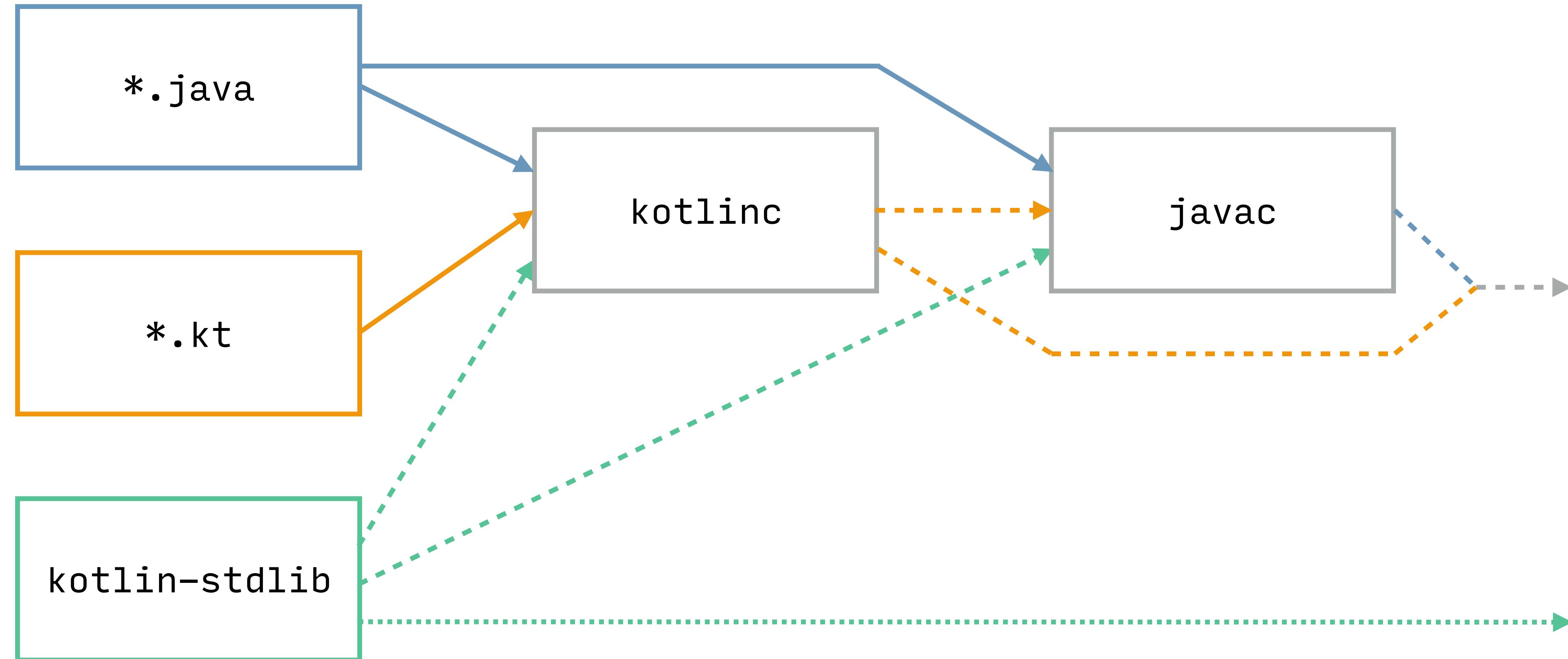
Buildscript Author

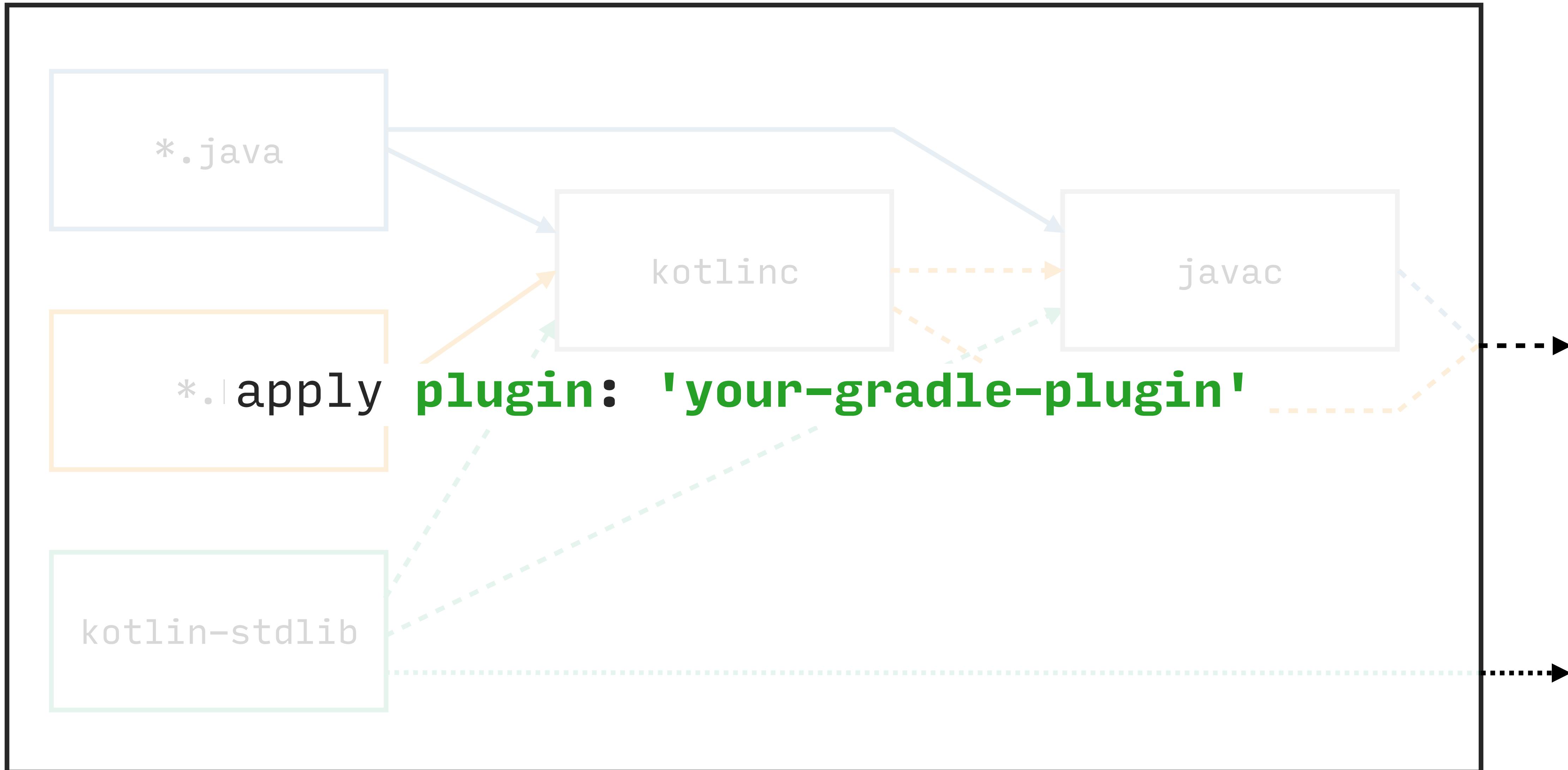


App Developer

```
class MyPlugin : Plugin<Project> {  
    override fun apply(project: Project) {  
        // ...  
    }  
}
```

```
import org.gradle.kotlin.dsl.*  
  
class MyPlugin : Plugin<Project> {  
    override fun apply(project: Project) {  
        // ...  
    }  
}
```





Pleasant Build Script Authoring with Kotlin



Rodrigo B. de
Oliveira

*Principal Engineer at
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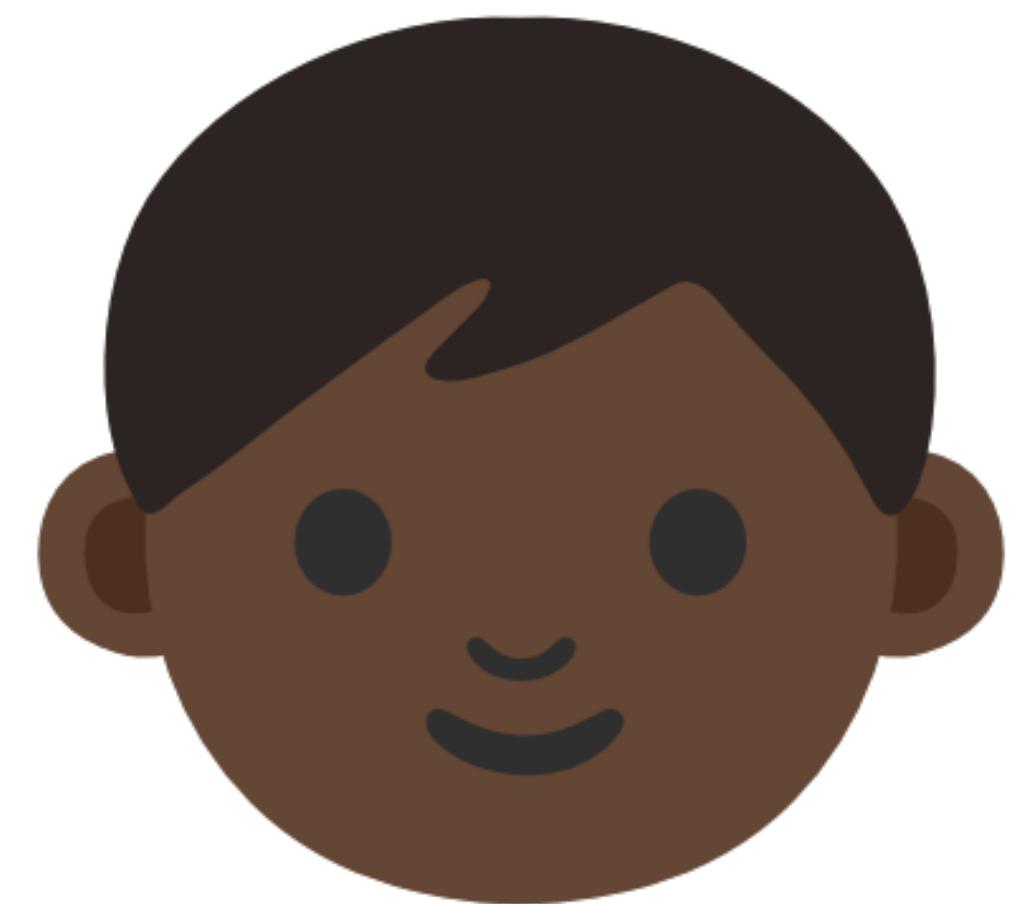
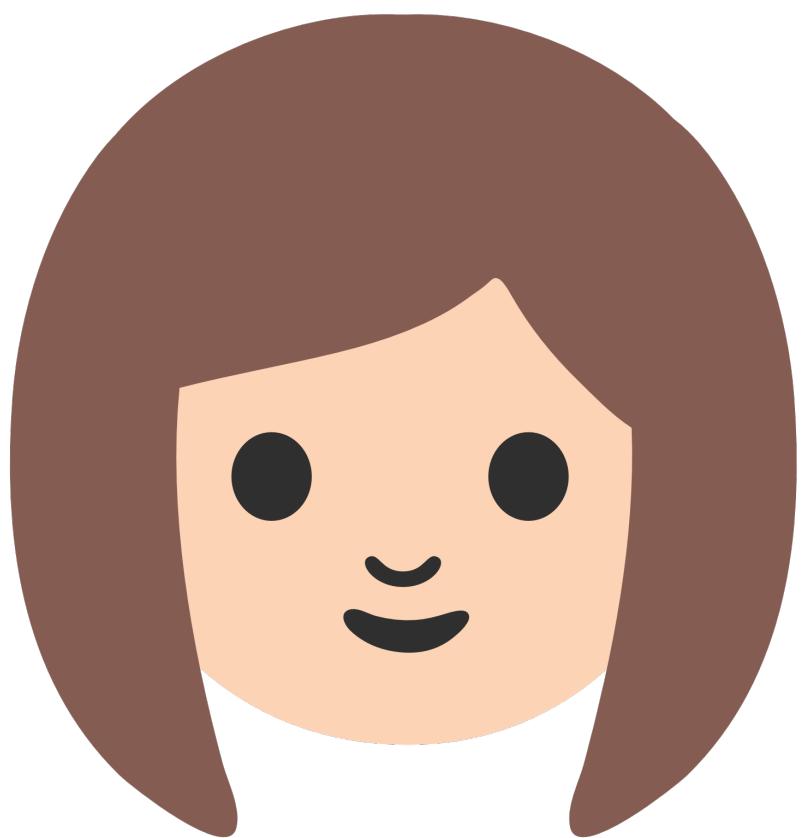
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+



A Builder's Intro to Kotlin

[twitter.com/ jakewharton](https://twitter.com/jakewharton)

[github.com/ jakewharton](https://github.com/jakewharton)

.com

