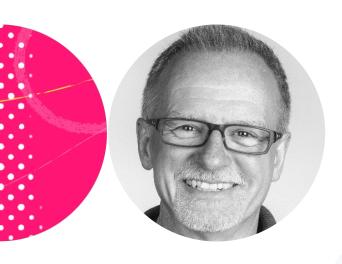
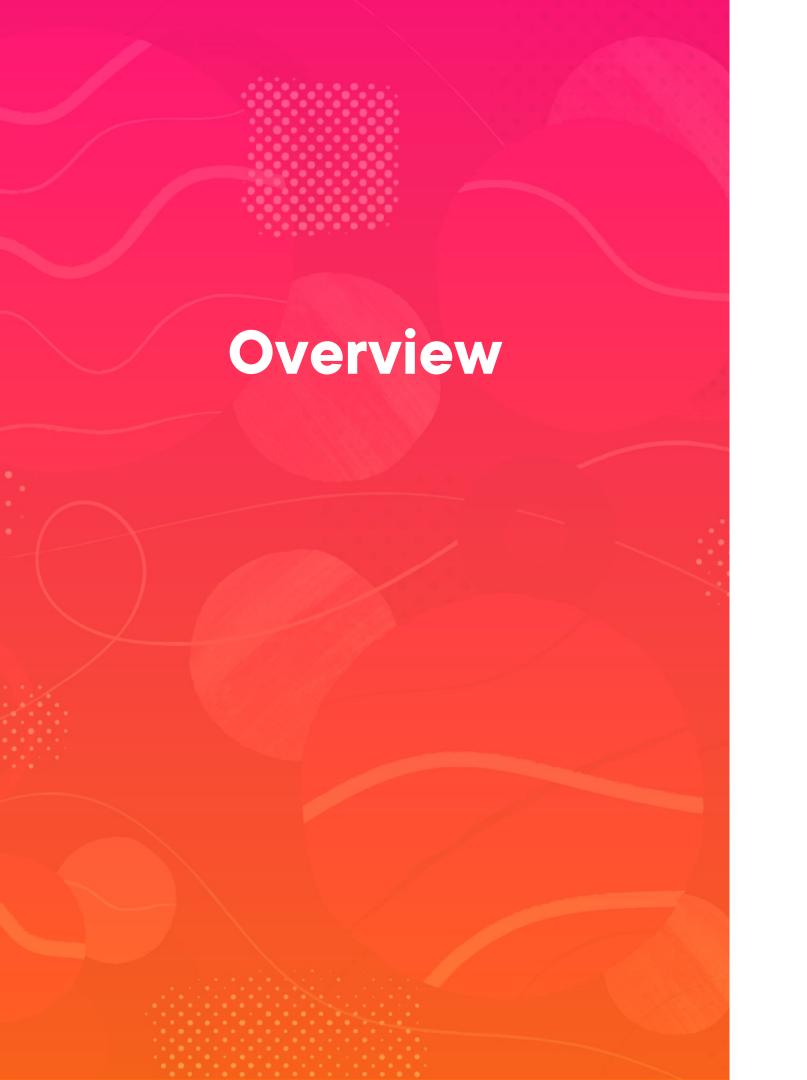
Java Interoperability



Kevin Jones

@kevinrjones





SAM interfaces



Kotlin and Null

Kotlin has support for nulls

- Type declaration
- Operators

Kotlin Understands Java Annotations

@Nullable, @NotNull org.jetbrains.annotation org.eclipse.jdt.annotation

What if there are no annotations?

Kotlin now working with 'Platform' types

Developer has full responsibility



val i: Int = person.name

ERROR: Type mismatch: inferred type is String! but Int was

expected

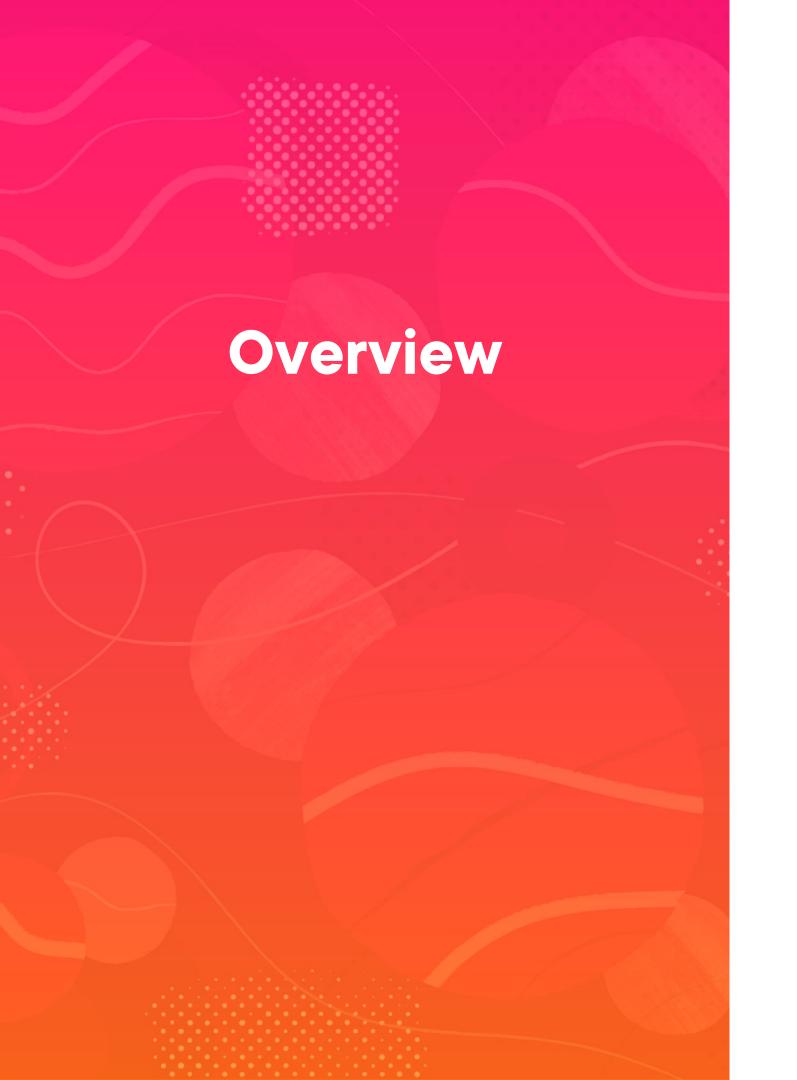
Platform Types Are Hidden

Can see them in error messages



What about overriding Java types?

Can make the parameters Nullable or not



SAM interfaces



Passing Lambdas to Java Methods

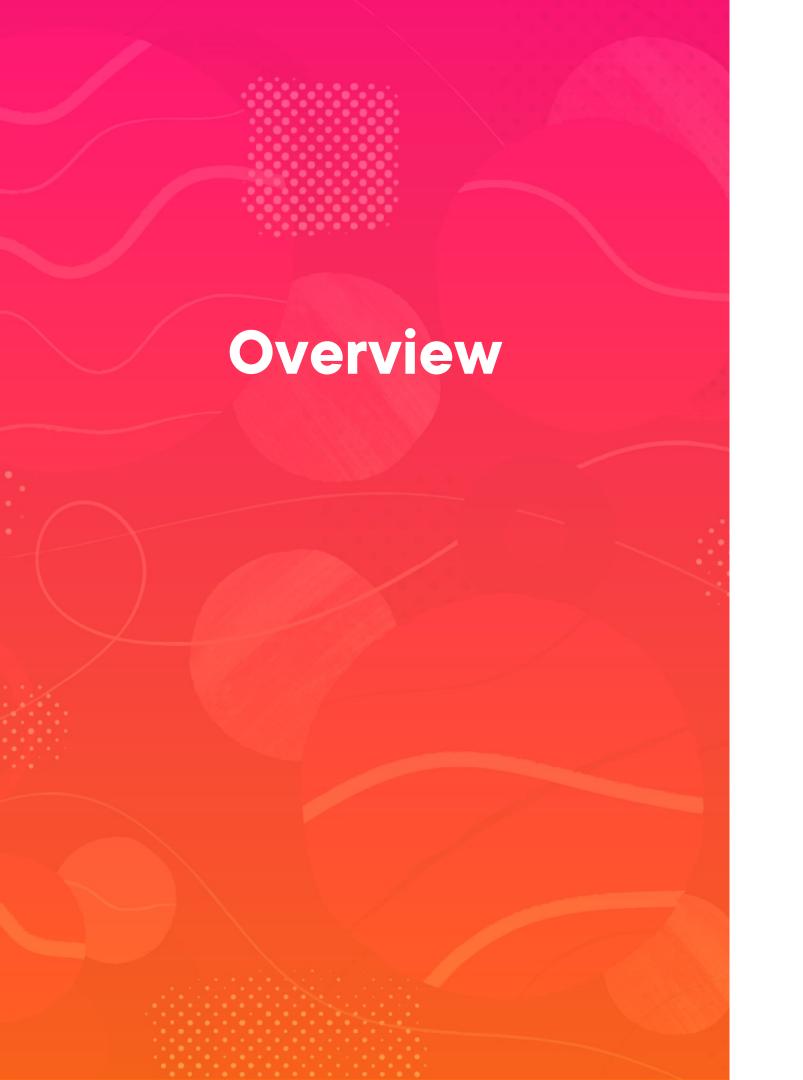
Many Java methods expect a functional interface

Prior to Java 8 passed an anonymous object

Since Java 8 can pass lambdas

Kotlin lambdas are interoperable





SAM interfaces



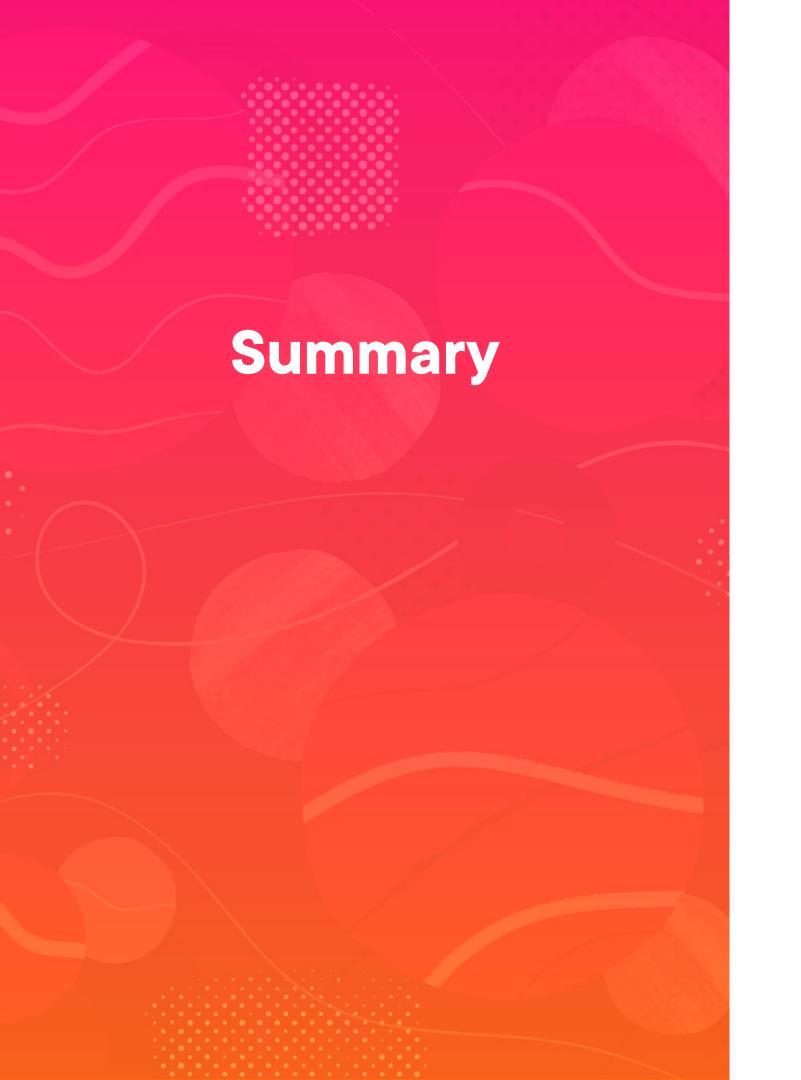
Annotations

@file

@JvmField

@JvmStatic

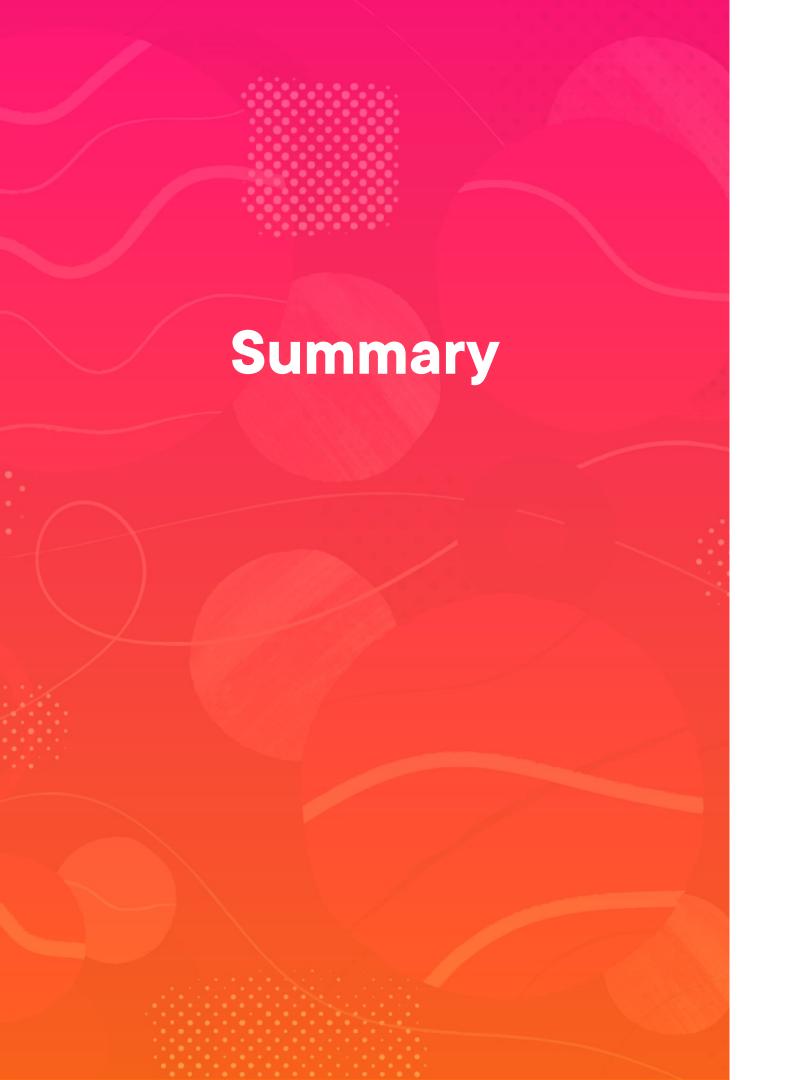




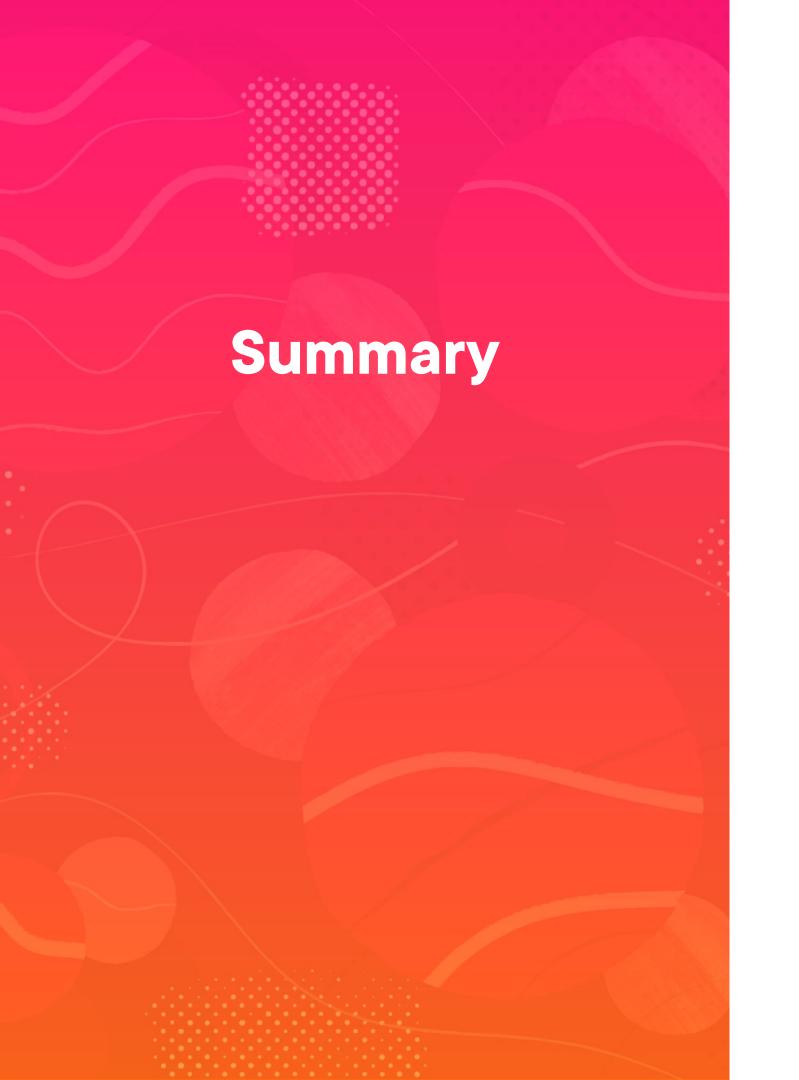
- @Nullable
- @NotNull
- Platform types

SAM interfaces

- Kotlin interoperates with SAM interfaces



- @file:JvmName
- @JvmField
- @JvmStatic



Tour of Kotlin

- The language
- Classes and interfaces
- Other class types
- Functions
- Collections and lambdas
- Interoperability