Construindo o primeiro app usando Kotlin

Filipe Guedes
@fgsguedes

Philipe Steiff
@philipesteiff

Por que Kotlin?

- Concisa, simples e fácil de ler/escrever
- 100% "two-way" interoperável com Java
- Também é funcional
- Null-safety
- Extension functions
- It's **fun**

```
class Foo {

  fun sum(a: Int, b: Int): Int {
    return a + b
  }

  fun printSum(a: Int, b: Int): Unit {
    print(a + b)
  }

}
```

```
class Foo {

 fun sum(a: Int, b: Int) = a + b



 fun printSum(a: Int, b: Int) {
  print(a + b)
 }

}
```

```kotlin
val a: Int = 1

val b = 1

var c = "Any variable"

val d = Foo()
```

Null Safety

```
var a: String = "abc"
```

Null Safety

```
var a: String = "abc"
a = null
```

Null Safety

```
var a: String = "abc"
a = null // compilation error
```

Null Safety

```
var a: String = "abc"
a = null // compilation error


println(a.length)
```

Null Safety

```
var a: String? = "abc"
a = null


println(a.length)
```

Null Safety

```
var a: String? = "abc"
a = null


println(a.length)
// compilation error
```

Null Safety

```
var a: String? = "abc"
a = null


println(a?.length)
```

Null Safety

```
var a: String? = "abc"
a = null


println(a?.length)
// will print 'null'
```

Null Safety

```
var a: String? = "abc"
a = null


println(a?.length ?: "Was null")
// will print 'Was null'
```

Null Safety

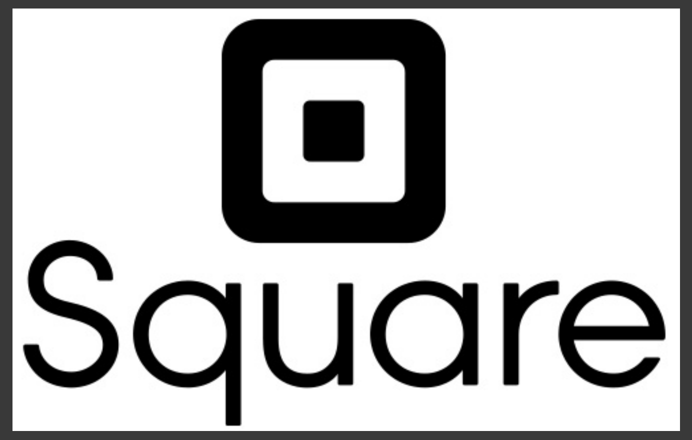
```
var a: String? = "abc"
a = null


println(a!!.length)
// XGH
```

Extensions

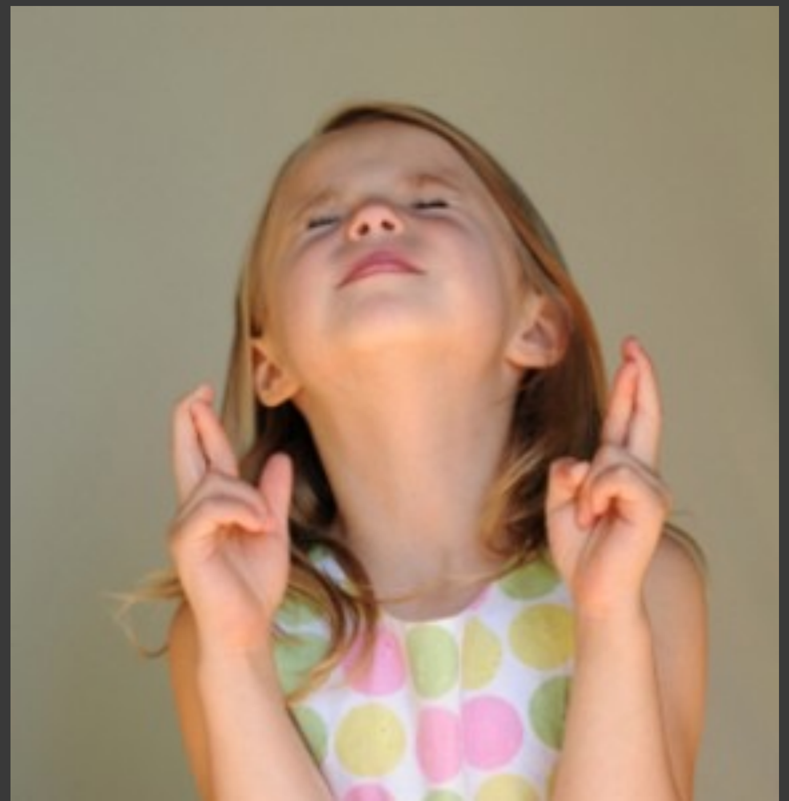
```kotlin
fun Parcel.readBoolean() = readByte() > 0

fun Parcel.writeBoolean(boolean: Boolean) {
  when {
    boolean -> writeByte(1)
    else -> writeByte(0)
  }
}


myBooleanField = parcel.readBoolean()

override fun writeToParcel(parcel: Parcel, p1: Int) {
  parcel.writeBoolean(myBooleanField)
}
```

Quem está usando!?

coursera
education for everyone



Some live coding!!



Wish us luck