



Ready for Production



# BACKGROUND

- Started in 2010 by JetBrains
- We needed a language
  - Concise, Expressive, Toolable, Interoperable...

## **Pragmatic**

- Developed under Apache 2 OSS on GitHub

# CURRENT STATE

- 1.0 Release on 15th February 2016
- 20+ Developers at JetBrains
- 100+ Committers
- Used in close to 10 Products at JetBrains
- 14K+ Users as of January 2016
- External Companies include **Prezi, Expedia, NBC News Digital** amongst others

# WHERE CAN I USE IT?

- Anywhere
- Android - Compatible with Java 6. Small runtime
- Similarity to Java/C#/JavaScript allows quick ramp-up time
- Interoperability allows gradual adoption

# HOW CAN I USE IT?

- Command Line
- Maven
- Gradle
- Kobalt
- Ant
- IntelliJ IDEA
- Android Studio
- Eclipse



LET'S SEE SOME CODE

# ANKO

```
override fun onCreate(savedInstanceState: Bundle?) {  
    super.onCreate(savedInstanceState)  
  
    verticalLayout {  
        padding = dip(30)  
        editText {  
            hint = "Name"  
            textSize = 24f  
        }  
        editText {  
            hint = "Password"  
            textSize = 24f  
        }  
        button("Login") {  
            textSize = 26f  
        }  
    }  
}
```

# ANDROID EXTENSIONS

```
// Using R.layout.activity_main from the main source set
import kotlinx.android.synthetic.main.activity_main.*

public class MyActivity : Activity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        textView.setText("Hello, world!") // Instead of findViewById(R.id.textView) as
        TextView
    }
}
```



# SPRING BOOT

SPRING INITIALIZR bootstrap your application now

Generate a Gradle Project with Spring Boot 1.3.2

## Project Metadata

Artifact coordinates

Group

com.example

Artifact

demo

Name

demo

Description

Demo project for Spring Boot

Package Name

com.example

Packaging

Jar

Java Version

1.8

Language

Kotlin

## Dependencies

Add Spring Boot Starters and dependencies to your application

Search for dependencies

Web, Security, JPA, Actuator, Devtools...

Selected Starters

# KOBALT

```
import com.beust.kobalt.*
import com.beust.kobalt.plugin.java.*
import com.beust.kobalt.plugin.packaging.*
import com.beust.kobalt.plugin.publish.*

val jcommander = project {
    name = "jcommander"
    group = "com.beust"
    artifactId = name
    version = "1.52"

    dependenciesTest {
        compile("org.testng:testng:6.9.5")
    }

    assemble {
        mavenJars {
        }
    }

    bintray {
        publish = false
    }
}
```

# SPEK

Elegant DSL to clearly describe your specifications

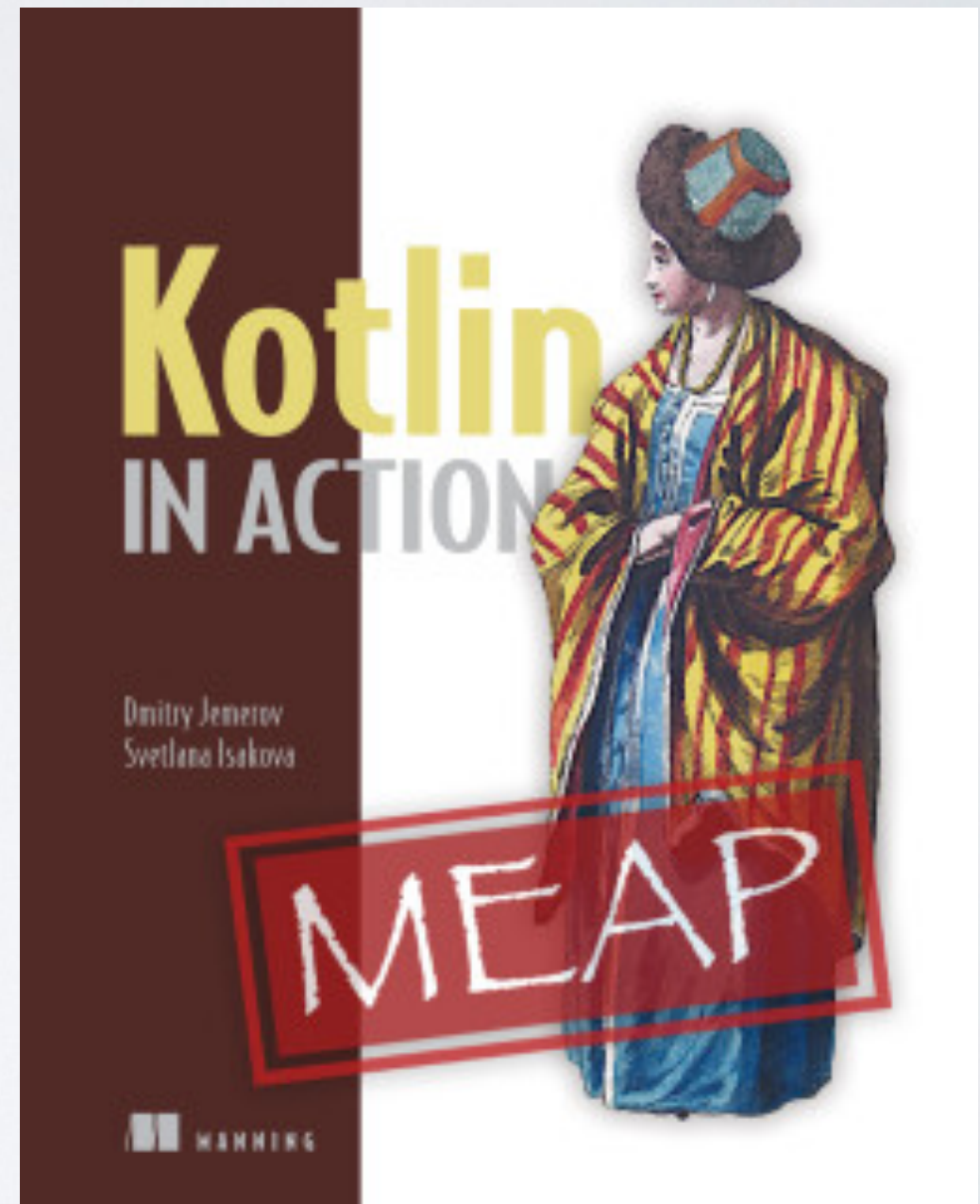
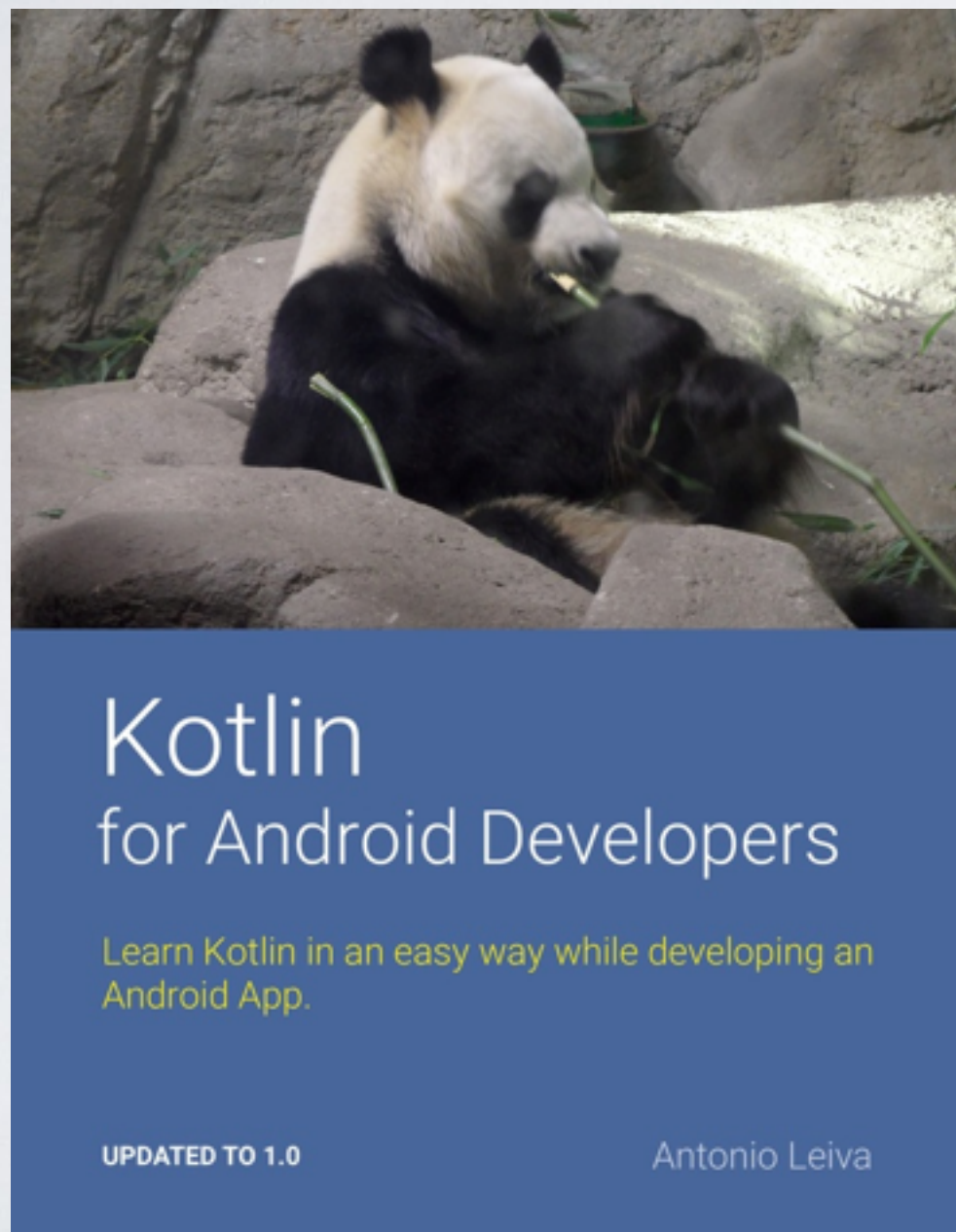
```
class CalculatorConsoleSpecs : Spek() {  
    init {  
        given("a calculator") {  
            val calculator = SampleCalculator()  
            on("calling sum with two numbers") {  
                val sum = calculator.sum(2, 4)  
                it("should return the result of adding the first number to the second number") {  
                    shouldEqual(6, sum)  
                }  
            }  
            on("calling subtract with two numbers") {  
                val subtract = calculator.subtract(4, 2)  
                it("should return the result of subtracting the second number from the first number") {  
                    shouldEqual(2, subtract)  
                }  
            }  
        }  
    }  
}
```

# NEXT STEPS

- [kotlinlang.org](https://kotlinlang.org)
- [try.kotlinlang.org](https://try.kotlinlang.org)
- Kotlin Koans (online/offline)



# BOOKS





# COMMUNITY



Join **kotlinlang** on Slack.

**239** users online now of **1758** registered.

you@yourdomain.com

**GET MY INVITE**



**Kotlin**

@kotlin

Statically typed Programming Language  
targeting JVM and JavaScript -

Sponsored and Developed by

@JetBrains Join us on Slack:  
[kotlinlang.slack.com](https://kotlinlang.slack.com)

[kotlinlang.org](https://kotlinlang.org)

Joined July 2011

 Tweet to Kotlin

# SUMMARY

- Pragmatic Language
- Easy Learning Curve
- Interoperability provides low-risk adoption
- Enjoyable
- Kotlin is here to stay



**Brett Miller**

@WrathZA



 Follow

Researched Kotlin last night and then spending the morning looking at mountains of boilerplate Java in Android Studio. I see why they did it

8:35 AM - 16 Feb 2016



THANK YOU

@hhariri - [hadi@jetbrains.com](mailto:hadi@jetbrains.com)