KOTLIN

Bastien Ladron

github.com/Bastien7

bastien.ladron@gmail.com



Summary

- What is Kotlin?
- JetBrains
- Story of Kotlin
- Code
- Visit of the official website
- Kotlin 1.1
- What about real-world?



What is Kotlin?

- Statically typed programming language
- Running on JVM
- Developed by **JetBrains** since 2010
- A better Java





JetBrains

- Making IDEs and tools for different languages
- Created in 2000
- Most Innovative Java Company award 2012
- Large codebase in Java



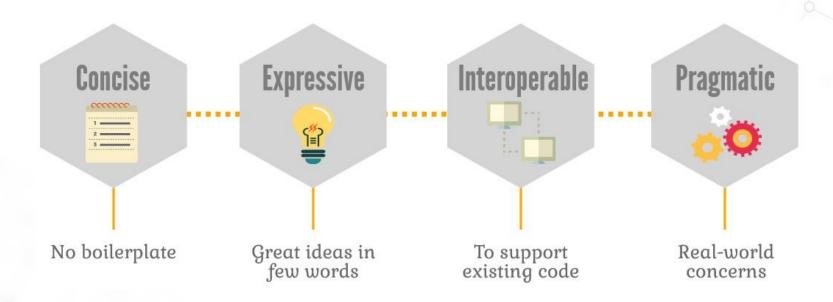








Looking for a new language





Candidates





Performance issue (in 2010)

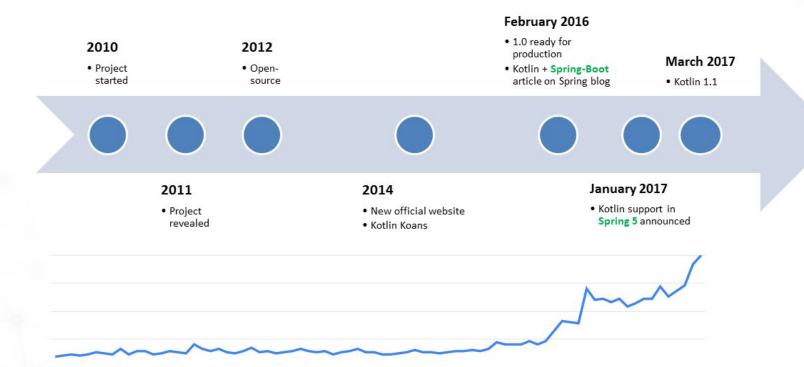
Tools issue

Nice language

But interest divergences



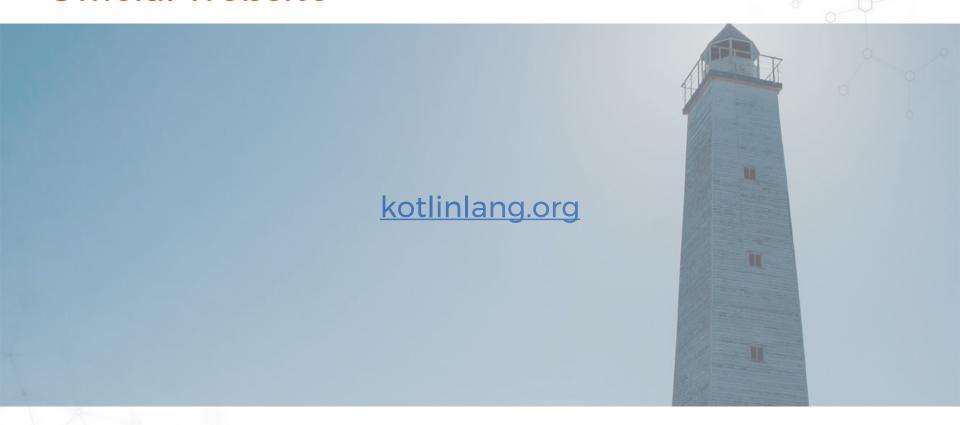
Timeline







Official website





Kotlin 1.1

JavaScript target no longer experimental

Coroutines



Coroutines

- Asynchronous code
- Non-blocking
- Lightweight

"Much better threads"



Coroutines

Maximum flexibility

- Language: very little is fixed
- Libraries: many possibilities
 - generators/yield (Python)
 - channels/select (Go)
 - async/await (C#)



Spring support

- Many articles on spring.io blog
 - Springboot + Kotlin for the 1.0
 - Guide and tips
 - Exclusive support for Kotlin in Spring Framework 5.0
 - Custom implementations/extensions
 - Code comparisons

Spring + Kotlin > Spring + Java



Current state

- 22 JetBrains developers working full-time on Kotlin
- Used in 10 products
- New tools are written in Kotlin
- IntelliJ has parts written in Kotlin



Community

- 1 year since 1.0
- 160,000 devs
- 50% server-side, 50% Android

Kotlin LOC on GitHub



2012 2013

15

Roadmap

- Support Java 9 (Jigsaw)
- Incremental compilation for JavaScript
- Tool and support for multi-platform target
- Performance, maintenance



Multi-platform











Sustainability

Our commitment to Kotlin is that it's here to stay because we're using it in our products. The business model around Kotlin is JetBrains tooling, not consulting.

Hadi Hariri, developer and speaker at JetBrains



They use Kotlin



















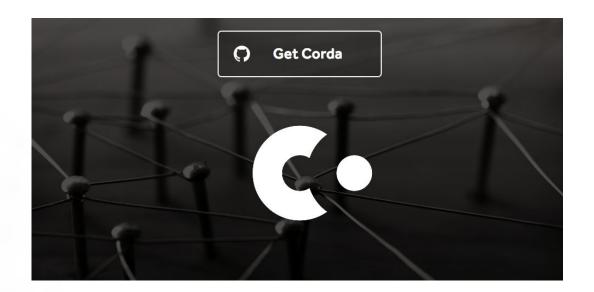






Kotlin in the banks?

Yeah! Our Luxembourgish banks are already using it!





Conclusion

- Nice syntax for Java developers
- No boilerplate
- Easy to learn
- Seamless interoperability
- Support from Spring





Mindmap

