



WHAT JAVA MIGHT HAVE BEEN IF IT WERE WRITTEN TODAY




What is it?

Island just west of Saint Petersburg, Russia in the Baltic Sea

What is it?

- Programming language first revealed by JetBrains in 2011. Version 1.0 release in February 2016.
- Statically-typed
- Runs on the JVM
- Object Oriented or Functional
- Fully interoperable with Java
- Officially listed as a first-class language for Android development by Google in May 2017

Open Source

 JetBrains / kotlin

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1,011

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<> Code

Pull requests 68

Insights

The Kotlin Programming Language <http://kotlinlang.org/>

kotlin

programming-language

compiler

gradle-plugin

maven-plugin

kotlin-library

intellij-plugin

42,373 commits

1,282 branches

8,880 releases

190 contributors

Branch: master


New pull request

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 shiraji committed with semoro KT-20591: Show annotations in parameter info (#1358) ...

Latest commit 11f9c05 2 days ago

 .idea	Fix project scope "IDE" after migration to Gradle build	5 days ago
 android-studio	Prepare building plugins modules against 1.8 JDK	2 years ago
 annotations	Remove KotlinSignature annotations from project code	2 years ago
 ant	Fix tests in the new build infrastructure	a month ago
 build-common	JS: fix copying functions with default arguments across interfaces	10 days ago
 buildSrc	Do not fail build on TC when some tests fail, just report problem	5 days ago
 compiler.tests-common	Rename android-annotations -> kotlin-annotations-android	18 days ago
 compiler	Minor, use extracted variable in LateinitIntrinsics.kt	2 days ago
 core	Don't resort deserialized descriptors based on renderer, preserve pro...	2 days ago
 custom-dependencies/protobuf-lite	Declare shared shadow plugin version and use it consistently	a month ago

Language Goals

- Be useful
 - Developed by developers for developers
 - Can be used for server-side, web, or Android applications. Native support is currently being worked on.
- Be safe
 - Support for non-nullable types
 - Can be introduced gradually to existing Java projects
- Be concise
 - Their estimates say that there should be about a 40% decrease in lines of code compared to Java.

Demo

Things Kotlin Doesn't Have

- Checked Exceptions
 - These generally force Java applications to have a large amount of boilerplate around handling exceptions that happen very infrequently, leading to hard to read code.
- Semicolons
- Primitive Types
 - int, boolean, double, etc.
- Great Tooling/Static Analysis Support
 - SonarQube/Checkstyle/Findbugs
- Open Classes By Default
 - This means you can't extend classes unless you explicitly declare them open for extension.