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**Is it the right time to drop Java and learn a new language of Android development?**

Let us introduce you all with the new language of Android- Kotlin, the emerging programming language of **Android app development.** The prominent market players, including Uber, Netflix, Google, Amazon, Pinterest, have already used Kotlin for their projects.

So, the question is why Kotlin is much popular in the market than other languages? Though Kotlin for Android is a little dim to prefer, after getting support from Google, it marks its presence in the lists of top languages to study next.

But, is it true that Kotlin is the upcoming future of **Android app development** or it is just another way of promoting technology?

**Let's discuss-**

**What is Kotlin, and why should every Android developer want to learn it?**

Kotlin is a statically-typed general-purpose programming language that is designed to interoperate fully with Java and Java versions. It is a cross-platform programming language which is compiled in Java. The language is very convenient in use, and it can also be compiled into native code and JavaScript.

Kotlin was introduced back in 2010 as an in-house project of JetBrains, the software development company which is well known for its integrated development environment. The innovators at JetBrains wanted to develop a tool which is very insightful for the developers. With the tool, the developers can quickly build all the components of modern applications by using a single language. It involves mobile clients for iOS and Android, full-stack web applications, IoT embedded platforms and others.

Google has introduced Kotlin as an officially supported language for the Android platform in 2017. The Kotlin language offers all the Java features at a single platform with various features of improvements. It helps the developers to improve the quality of any application, and they can use all the features of Java through this. The Kotlin has the following features-

* Improved readability
* Full compatibility with Java
* Data classes
* Less boilerplate codes
* Support for both object-oriented programming and the functional model
* A proper standard library
* Small file size for Android applications

**What barriers should developers expect when moving from Java to Kotlin?**

While using Kotlin, developers face the following difficulties-

* During the file conversion, the Git history is non-retrieved.
* In comparison to Java, less information is available on the Internet for Kotlin.
* Stack Overflow
* fewer forum threads
* fewer books
* Insignificant safety breach when using Java and Kotlin collectively.

**Kotlin 1.4 version that is going to introduce in 2020-**

Features of Kotlin 1.4 version that will make one more step onward for the Kotlin network-

* Incorporated back-ends and extensibility
* Focusing on quality
* Speed-up with the new front-end
* New compiler
* Kotlin Library Format

**Conclusions**

Now we all know why Kotlin has become the first choice for the developers. So, the question is what language to learn if you are a beginner to Android Development?

The answer is straightforward; that one should begin with Java and then learn Kotlin language.

Kotlin is a useful language that has a positive future ahead. But today, if you think to get a job as an **Android developer** without a good knowledge of Java, then it is impossible to get the job. Undeniably, Java is one of the most common programming languages in the world, and for the probable future, it is here to halt.

As you have seen, **Android development** with Kotlin features offers several features for modern applications improvements, but due to their inter-relation, learning Kotlin after Java is the icing on the cake! On the other hand, a developer will get a new language with a lot of stirring features. Still, on the other, they will suffer from the difficulties of modern languages such as comparatively little community, or a minute slower build time and Java-Kotlin interoperability.

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