Introduction

Kottin in a statically-typed. Cross plate form. general purpose propamning knowledge that was designed to be fully interoperate with Java.

History.

the Company behind popular integrated environments (IDEX) like Intellige

Tit was front announced for 2011 but was officially receleased in 2016.

kolhin gained perominence au an official language for Android App development In 2017 when Grough endanned, alongside Jong,

Difference from Java:

1. Godeseness: kottin 6de in often manne Concre than Equivalent jawa Code: It speake boilerplate Gde,

Date: \ \ reaking development bersten and Easter to viead. 2. Null capety: kottin type system schole and non-nullable types i which help pointer Exceptions. a Common mue in Java. 3. Extension Functions! kotun allow you to add new functions to Existing clames without men without medifying their source Coole.

The feature Pr not posesent for Java. Suare Castal. kollo's type System U. Casting of types in Certain situations, vieduring the rud for Explicit type Costingi Data Clomes: kottin perovides data 51 classes feat automatically generate useful returned like 'equality' i har Code ()' and to string ()'

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6. Coroutines: kottin offen native support
for Governmen, Stopping
arynchronous perogramming Companied
to Javo's thread-based model.

Purpose

several pain points en java
development and Imposeur overall
paroductify

It aimed to maintain Computibity

with Java rating of casien for

Java developers to transition

to boblin and allowing both

languages to Gerint on the

kottin was designed to be a nurve modern, expressive and safer atternative to Java while still leveraging the want Java Cosystem and lettravier.

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Key features
Interoperability: Interoperable weith yours, allowed
Interoperability!
O kottin con sent
interoperable meith your allowing demetopera to me both languages
developers to the both land
Po the Same proper. Judes
Mul safety: kottin types System clistinguisses bretween nuclasse
kottin types Syste
distinguisses between nuclasse
and non-nullaste types , Judio
and ponter Exception.
^
Entension Function!
vous to Extend faining allow
you to extend tribing classes
allerias temperation of the continue
you to Extend talking Classes unten new functionality weithout aftering their Source Code.
Data Clames:
Kotus automatically assessals
wety nelled for went
kotus automatically generate useful nuterods for wosking usin data, such as 'Equality' hancode U' and 'tostring U'.
horacode 12' and 'to string 12'

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Canochines!

| koltin privides mikue

Support for anynchronous programmin

twings Cortourkness Simplifyly

Corrols Gnewowint and anynchoronom Code. Functional Porogogmoney: Contount like lambdas, higher-order function and immutaste data Structure. Conclusion Kolhin was developed to Pomprove upon Java by offering a more Concine, exposessive could eafer language wehle maintaing with gave. It is modern beatures and Emphasis on new sufcry make et popular choice for android development and other application domain.

Date: \ print Hellowoodal in kottin Create a file Hello, kt Step2: workse following Coole tun main () johnstal "Hello woorld"), Step 31-Run fine Coole White following Hello.kt - include - runtime -d Helloyan step y: Hello world.

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