# Kotlin

## What is Kotlin?

* Kotlin is a general purpose, free, open source, statically typed programming language initially designed for the JVM (Java Virtual Machine) and Android, and combines object-oriented and functional programming features.

## Where is Kotlin used?

* Kotlin is designed to run on a Java Virtual Machine and can run side by side with Java. Although Kotlin first started as a language for Android development specifically, it quickly spread through the Java community because of its features and has since been used for many types of applications. It is used in below mentioned areas:

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* + Android Development
    - Backend Development
      * Full Stack Development
        + Multi Platform Mobile Development

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## Features of Kotlin

1. Data Classes
2. Concise
3. Null safety
4. Interoperable with Java
5. Functional and OOP Capabilities
6. Smart Cast
7. Tool friendly

## First Program Using Kotlin

### Online Compiler

* + <https://play.kotlinlang.org/>

### Environment Setup on windows

* + <https://www.tutorialspoint.com/kotlin/kotlin_environment_setup.htm>

### Environment Setup on Local Machine (Linux)

* + Update apt to load the latest package on apt. [->GoTo](https://itslinuxfoss.com/sudo-apt-update-command/)