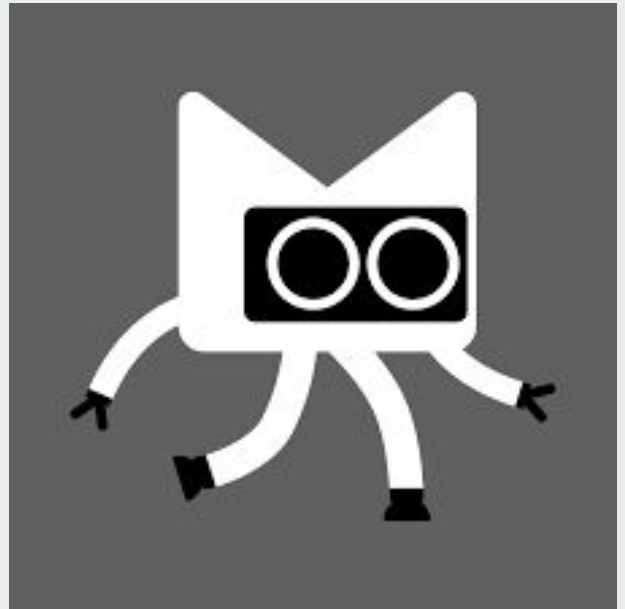# Kotlin

Daniel Reedy

Background

- Announced in 2011 by JetBrains (a team in St. Petersburg)

- Wanted the features of Scala, but compile times as fast as Java

- Version 1.0 released in 2016

- In 2019, Google announced that Kotlin is their preferred language for Android developers

Major Releases and Versions

- v1.0 - Considered the first stable release.

- v1.1 - Added Interoperability with JavaScript

- v1.2 - Added Multi Platform Projects

- v1.3 - Contracts and reword multi platform projects.

- v1.4 - New faster compiler

- v1.5 - Stable IR-based JVM compiler backed

Code Demo

Classification

Combines multiple programming paradigms in an elegant way:

Imperative

Procedural

Object-Oriented

Functional

Classification Examples

Functional: built in functions on immutable structures such as map() and sortBy()

Object-oriented: Implementation of classes and objects

Procedural: Functions do not need to be explicitly placed in classes

Major Applications

- Twitter
- Netflix
- Slack
- Reddit
- Lyft
- Duolingo
- Robinhood
- Pinterest

Grading

Readability: 4/5

Writability: 5/5

Reliability: 4/5

Cost: 5/5

Community: 4/5

Total score: 22/25

Questions