

Kotlin Guide

Tech guide for Kotlin beginners

Course: >>[Android Basics with Compose](#)<<

Unit 1: Your first Android app

1. Introduction to Kotlin

Learn introductory programming concepts in Kotlin to prepare for building Android apps in Kotlin.

2. Set up Android Studio

Install and set up Android Studio, create your first project, and run it on a device or emulator.

3. Build a basic layout

Build an Android app with a simple user interface that displays text and images.

Unit 2: Building app UI

1. Kotlin fundamentals

Learn more fundamentals of Kotlin, object-oriented programming, and lambdas.

2. Add a button to an app

Learn how to respond to a button click in an Android app.

3. Interact with UI and state

Create a tip calculator app that calculates the tip from user input.

Unit 3: Display lists and use Material Design

1. More Kotlin fundamentals

Learn additional Kotlin programming concepts that will enable you to build more interesting and fun Android apps.

2. Build a scrollable list

Create an app that displays a scrollable list of text and images using Compose.

3. Build beautiful apps

Make your apps more beautiful and intuitive to use with Material Design, animations, and accessibility best practices.

Unit 4: Navigation and app architecture

1. Architecture Components

Learn about app architecture and how to use ViewModels, UI State, and StateFlow to build more complex apps.

2. Navigation in Jetpack Compose

Learn how to use the Navigation component to build more complex apps with more screens

3. Adapt for different screen sizes

You'll learn how to adapt your app to different screen sizes and provide a better user experience, as well as how to test your adaptive UI.

Extra resources

**Click on the description to open the link

>>[Android documentation](#) will be always useful. We recommend you [check it up](#).

>>[In these videos, you will learn what coroutines are, what they are useful for, and how to use them.](#)

>>[In this tutorial, you are going to put MVVM pattern into practice. You will build a simple, yet real-enough app which will make you understand MVVM on a deeper level.](#)

>>[This video explains how to implement ROOM in kotlin](#)

>>[This series of videos will help you understand several concepts related to Android, from MVVM to Dpendency Injection with Dagger Hilt and some other useful dependencies for ypour projects](#)

