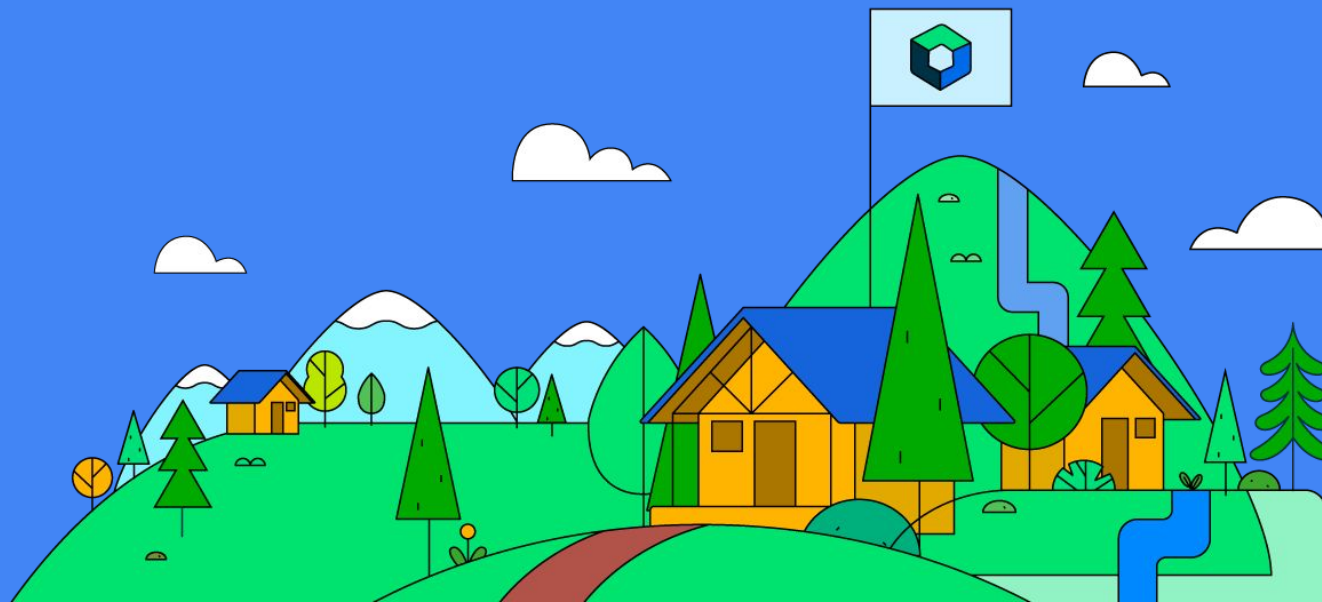


Compose Camp

Glancing at the Android Basics

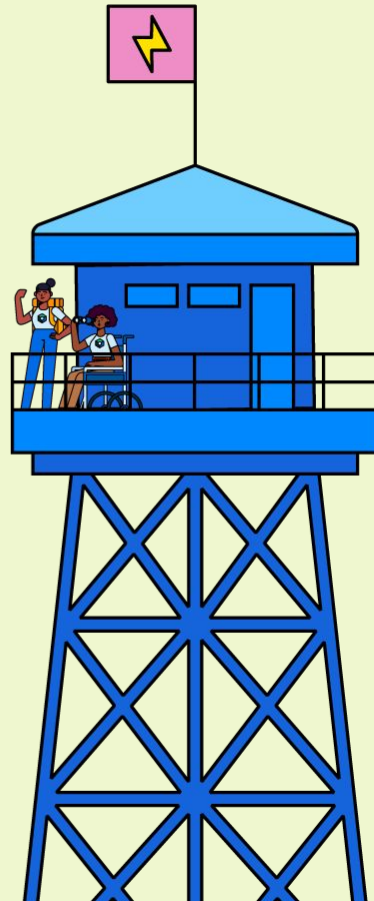
android

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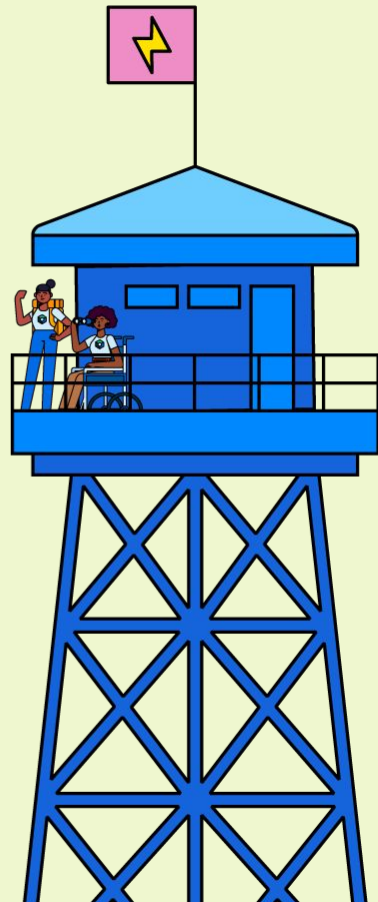
What is Compose Camp?

Compose Camp is a hands-on introduction to learning how you can build Android apps with Jetpack Compose.



Compose Camp Learning Objectives

- Build your first Android apps
- Set up Android Studio on your computer
- Learn the basics of the Kotlin programming language
- Learn Jetpack Compose
- Discover resources to continue learning



Session Overview

android

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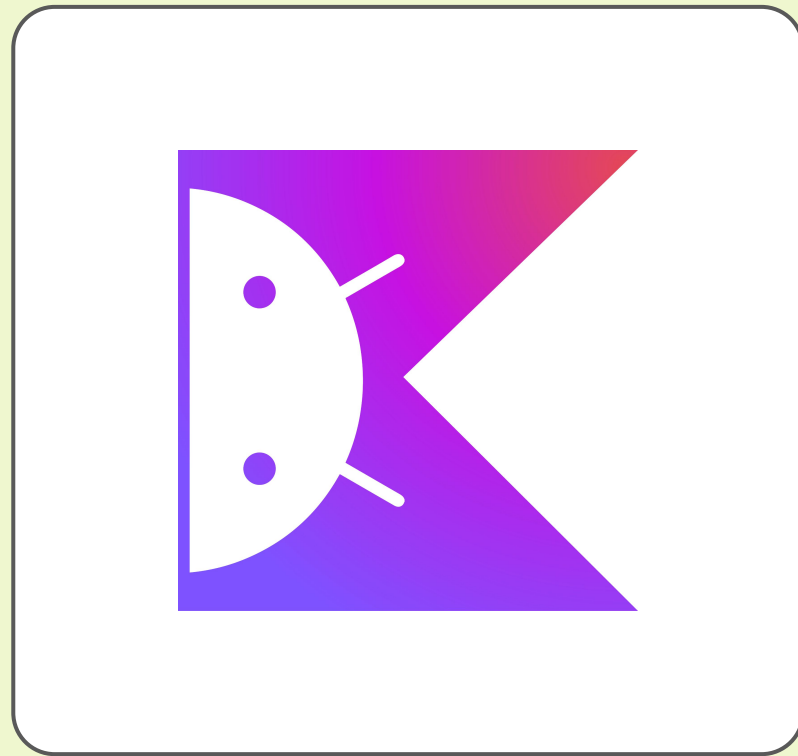
Let's get started



Kotlin Programming Language

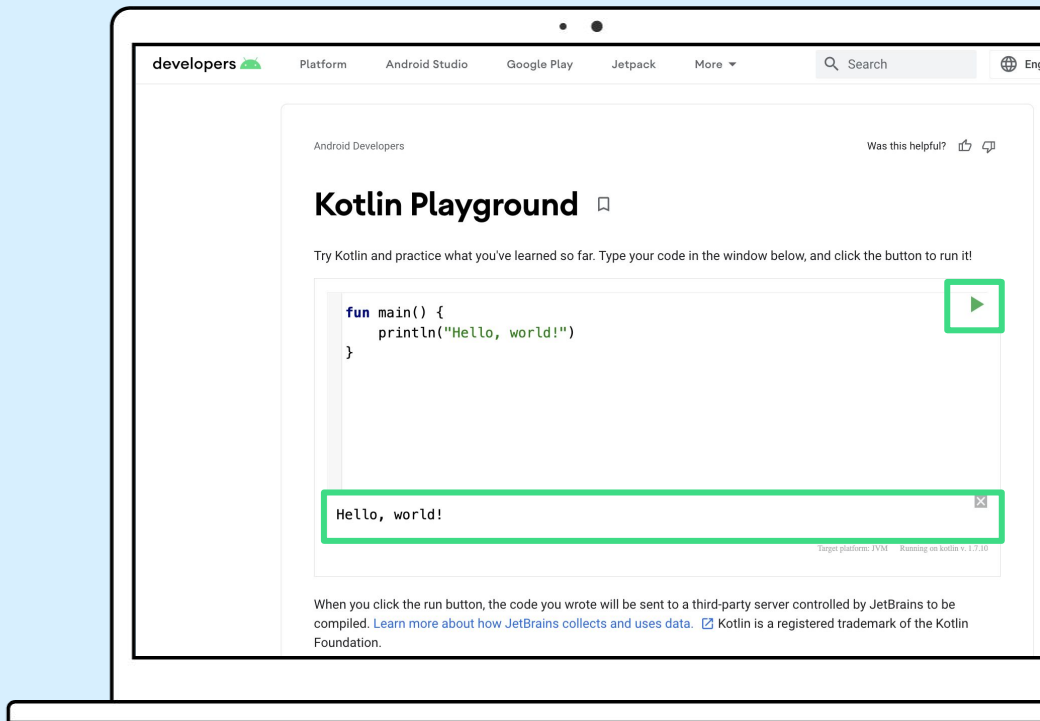
Use Kotlin to start writing Android apps.

Kotlin helps developers be more productive.



Kotlin Playground

Write and run Kotlin code in the browser.



main Function

The main function is the entry point, or starting point, of the program.

↓ Start here

```
fun main() {  
    println("Hello, world!")  
}
```

Output:
Hello, world!

Defining a function

Functions begin with the `fun` keyword.

```
fun displayIntroduction() {  
  
}
```



Defining a function

Functions have a name so that they can be called.

```
fun displayIntroduction() {  
  
}
```



Defining a function

Functions need a set of parentheses after the function name in order to surround the function inputs.

```
fun displayIntroduction() {  
  
}
```



Defining a function

The curly braces make up the function body and contain the instructions needed to execute a task.

```
fun displayIntroduction() {  
}
```



Defining a variable

val keyword

Use when you expect the variable value will not change.

Example: name

var keyword

Use when you expect the variable value can change.

Example: age

Defining a variable

Variables start with a **var** or **val** keyword.

```
fun displayIntroduction() {  
    val name: String = "Meghan"  
    var age: Int = 28  
}
```



Defining a variable

All variables must have a name.

```
fun displayIntroduction() {  
    val name: String = "Meghan"  
    var age: Int = 28  
}
```



Defining a variable

Data type is the type of data that the variable holds.

```
fun displayIntroduction() {  
    val name: String = "Meghan"  
    var age: Int = 28  
}
```



Defining a variable

The initial value is the value that is stored in the variable.

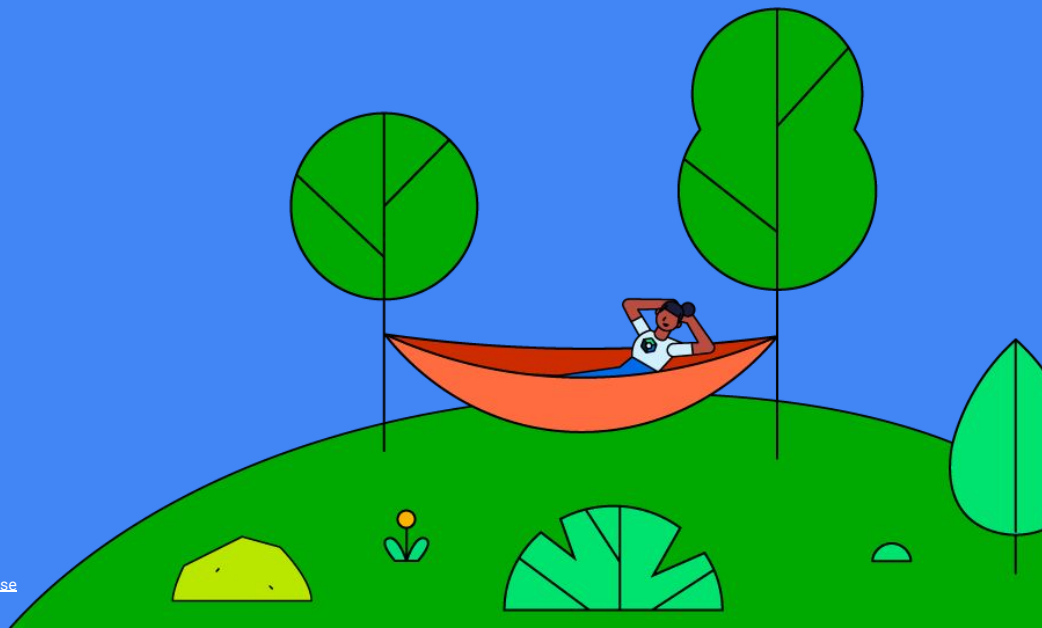
```
fun displayIntroduction() {  
    val name: String = "Meghan"  
    var age: Int = 28  
}
```



Basic data types

| Kotlin Data type | What kind of data it can contain | Example literal values |
|------------------|---|---------------------------|
| String | Text | "Add contact" "Search" |
| Int | Whole integer number | 32 -59873 |
| Double | Decimal number | 2.0 -37123.9999 |
| Float | Decimal number (less precise than a Double). Has an f or F at the end of the number. | 5.0f -1630.209f |
| Boolean | true or false. Use this data type when there are only two possible values. | true false |

Break

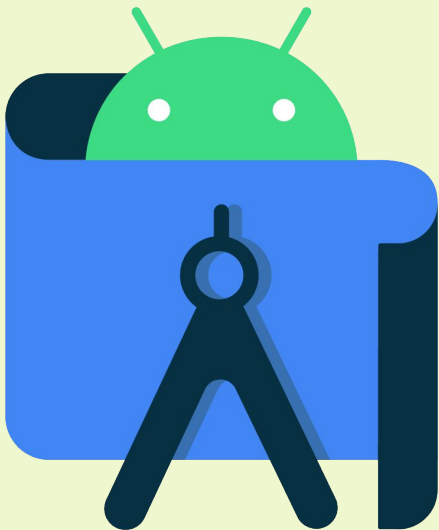


Welcome back

Any questions?



Android Studio



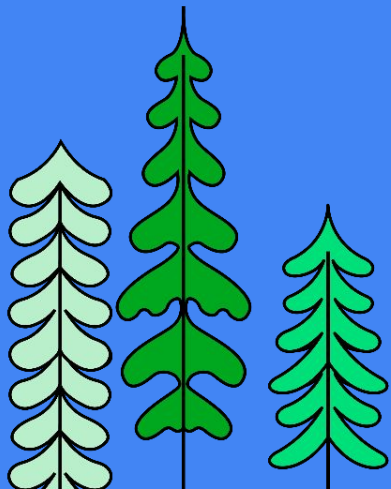
Android Studio is the official integrated development environment (IDE) for Android app development built and distributed by Google.

An IDE contains tools that make it easy for software developers to design, build, run, and test software, in this case, apps for the Android platform.

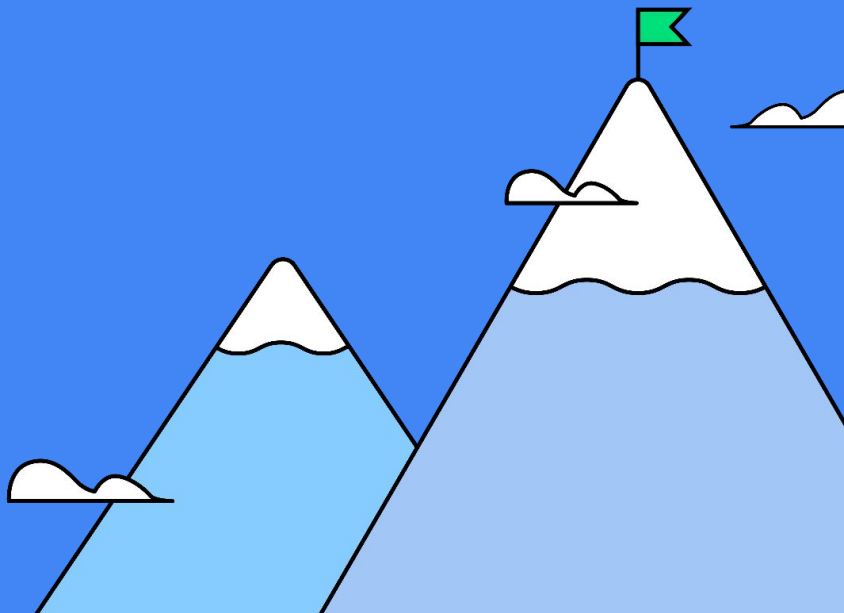
What is an emulator?

The Android Emulator emulates Android devices on your computer so that you can test your application on a variety of devices and Android API levels without needing to have each physical device.

What's coming next:

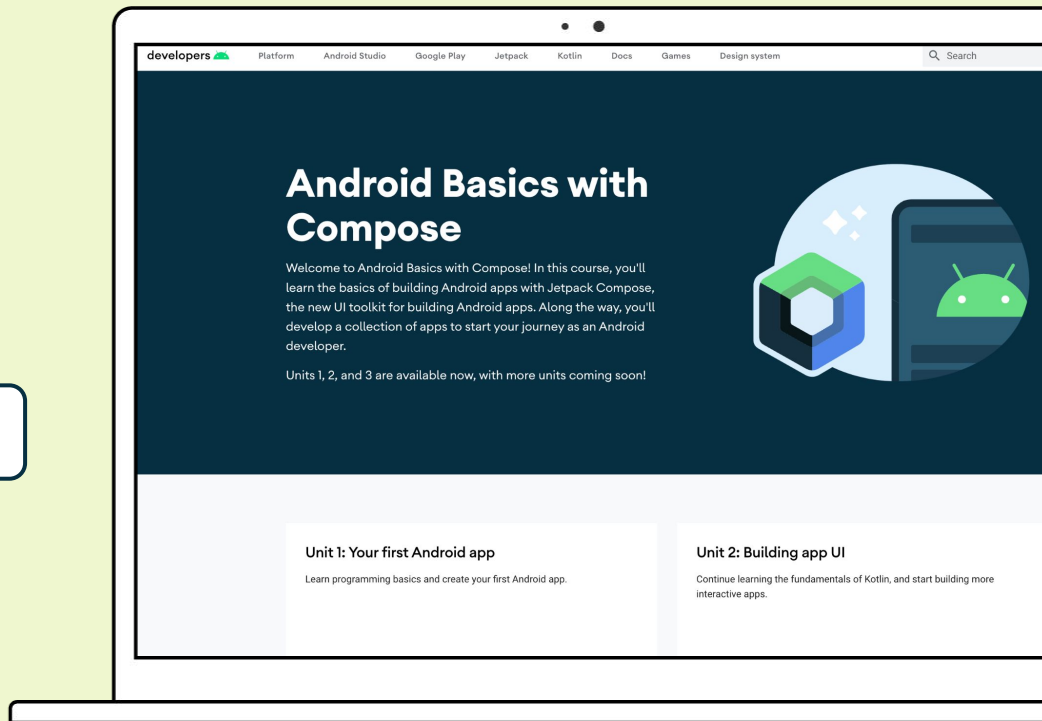


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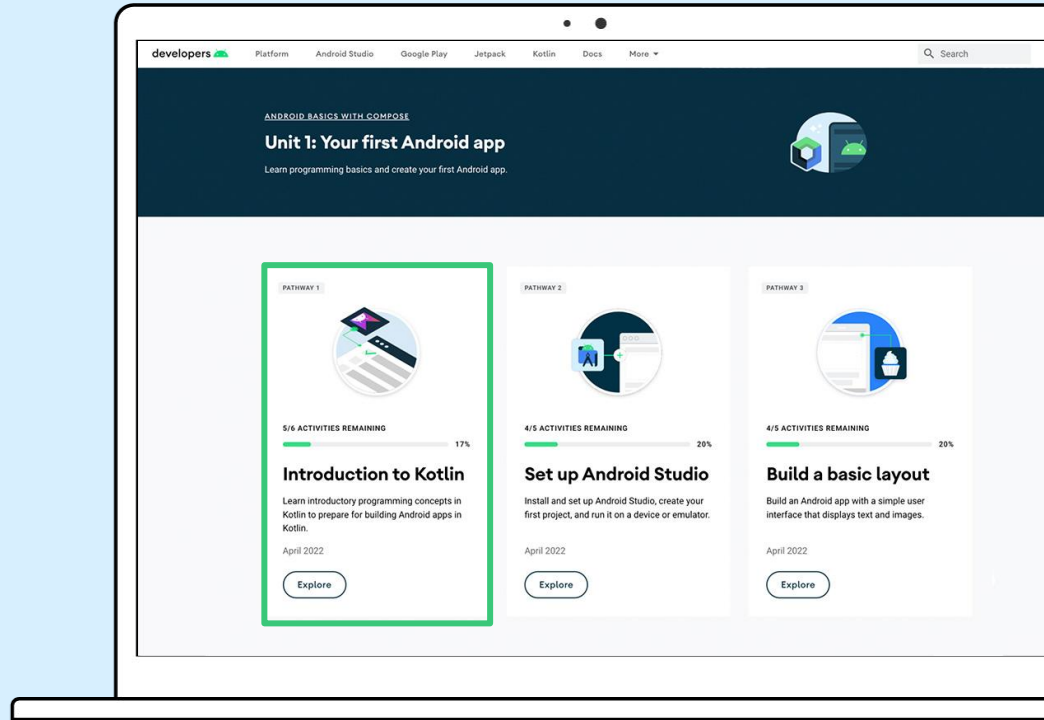


Android Basics with Compose Course

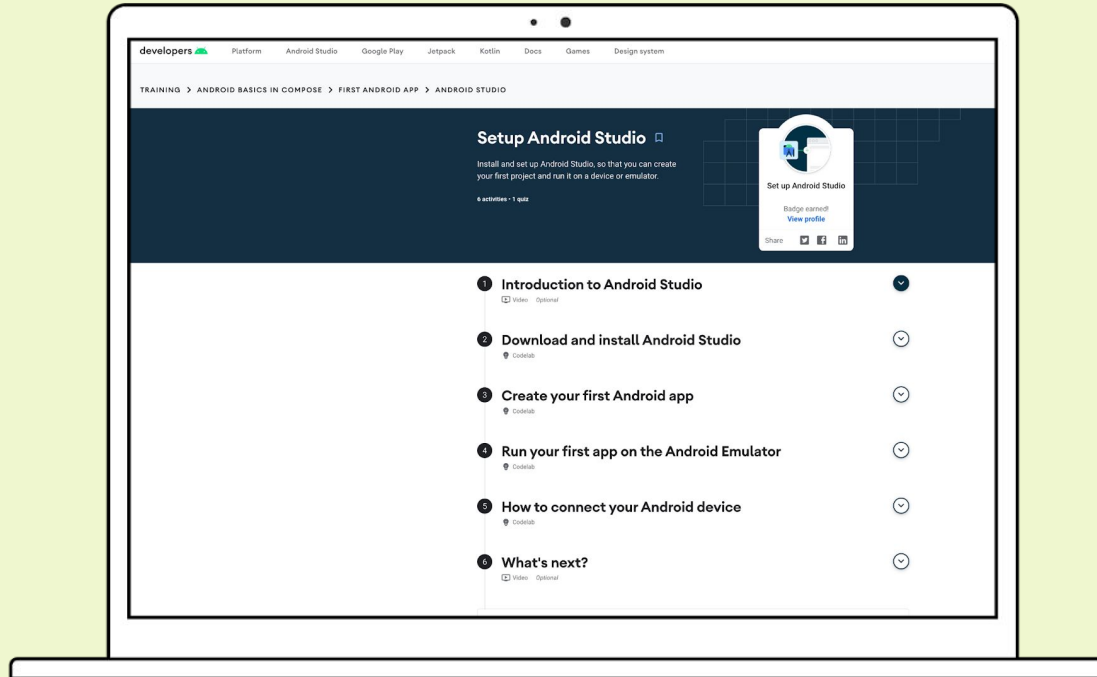
g.co/android/basics-compose



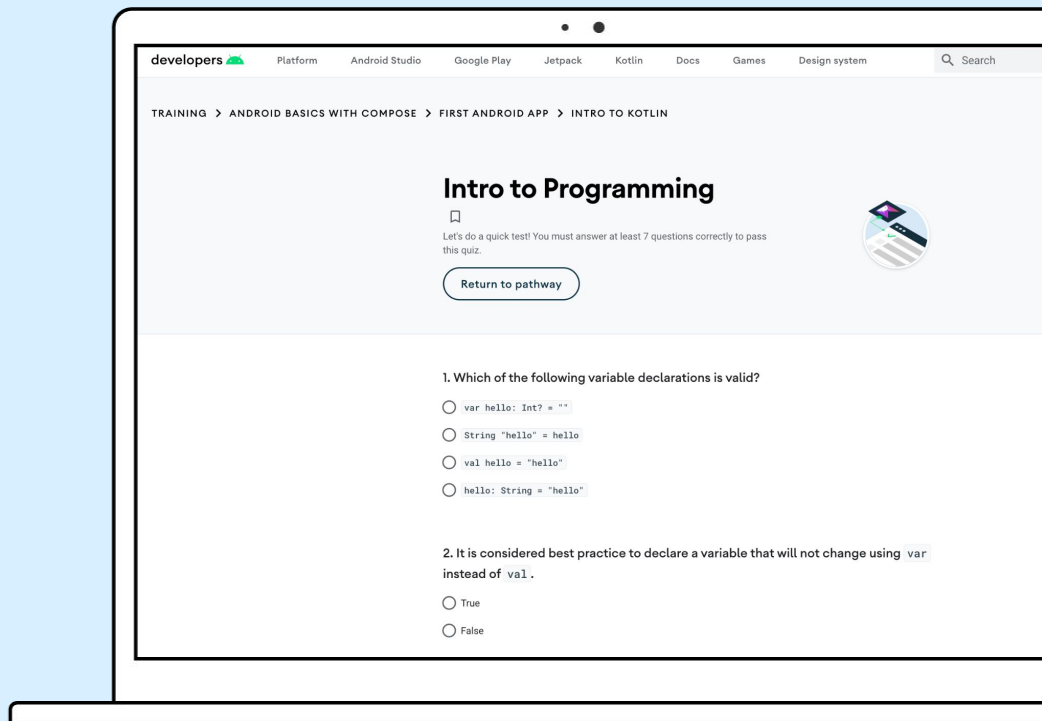
Unit 1: Your first Android App



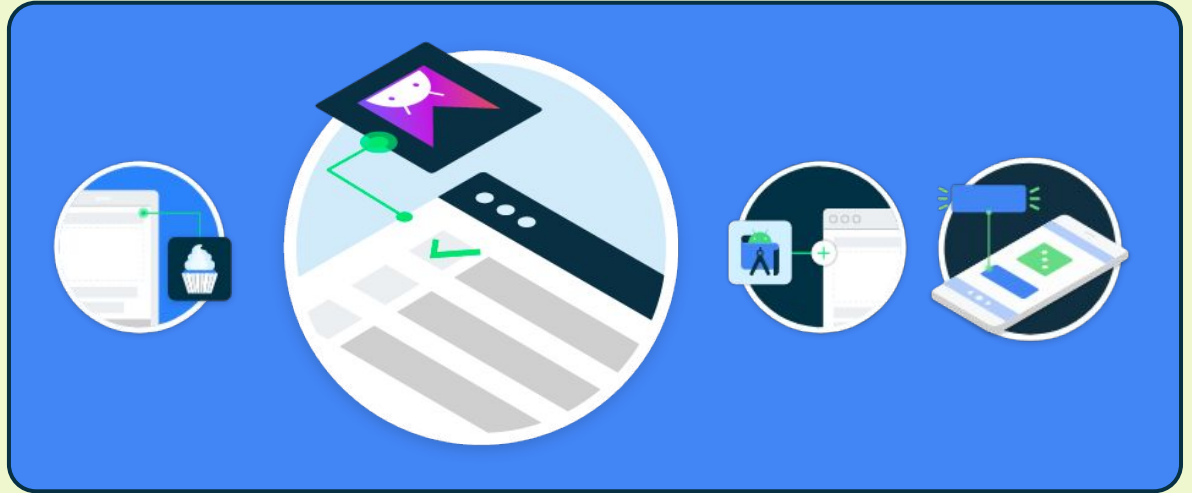
Work on Unit 1, Pathway 1 and 2



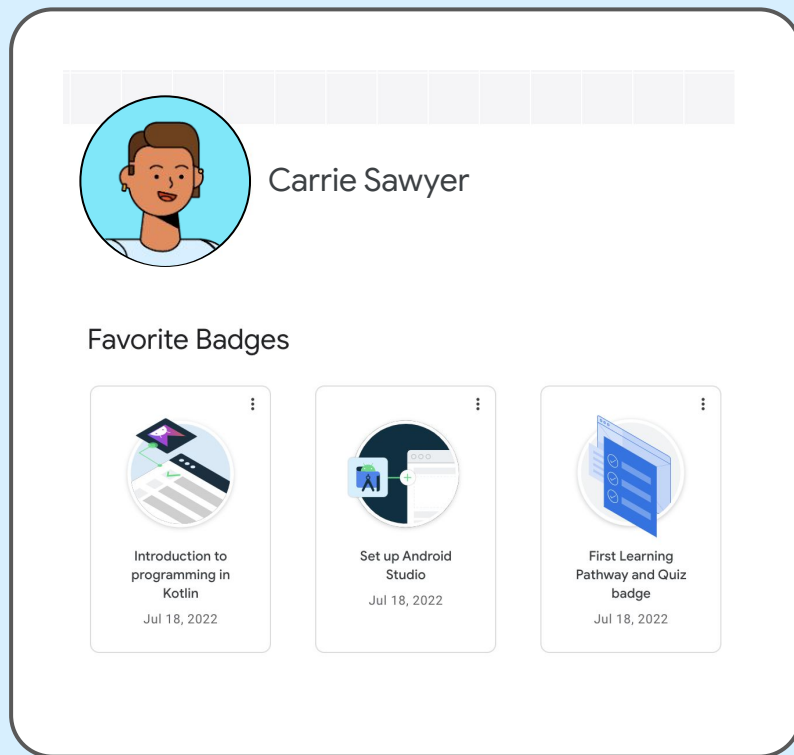
Take a Quiz



Earn badges!



Google Developer Profile



Share what you've
learned using

#ComposeCamp

on social media

For a chance to be
featured by Android,
submit your tips on
learning Compose to
goo.gle/compose-tips



Learn More



See you at the next Compose Camp Session!

Optional resources to check out:

- Official Android Developers Site: developer.android.com
- [Official Android Developers Blog](#) (for announcements)
- [Android Developers Medium Blog](#) (for more technical articles)
- [Android Developers](#) YouTube channel
- Follow [@AndroidDev](#) on Twitter
- Follow [@AndroidDev](#) on LinkedIn
- Subscribe to the [Android Developer Newsletter](#)

