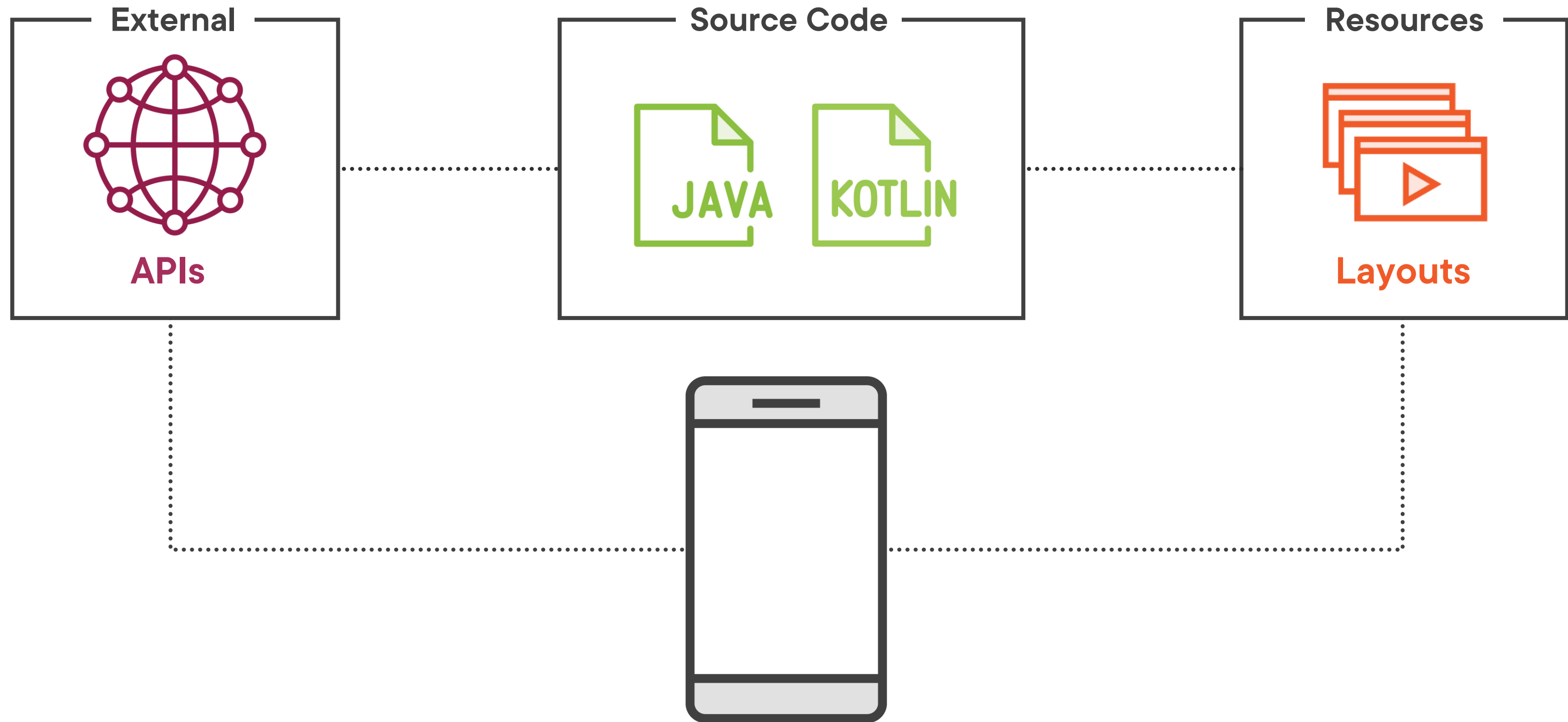


Building an Android App with Kotlin



Markus Neuhoff
Android Developer

Android Architecture



Overview



UI – Material Design

External APIs – Google APIs

Source Code – Android Jetpack

Android Studio Features

Building Great UIs with Material Design

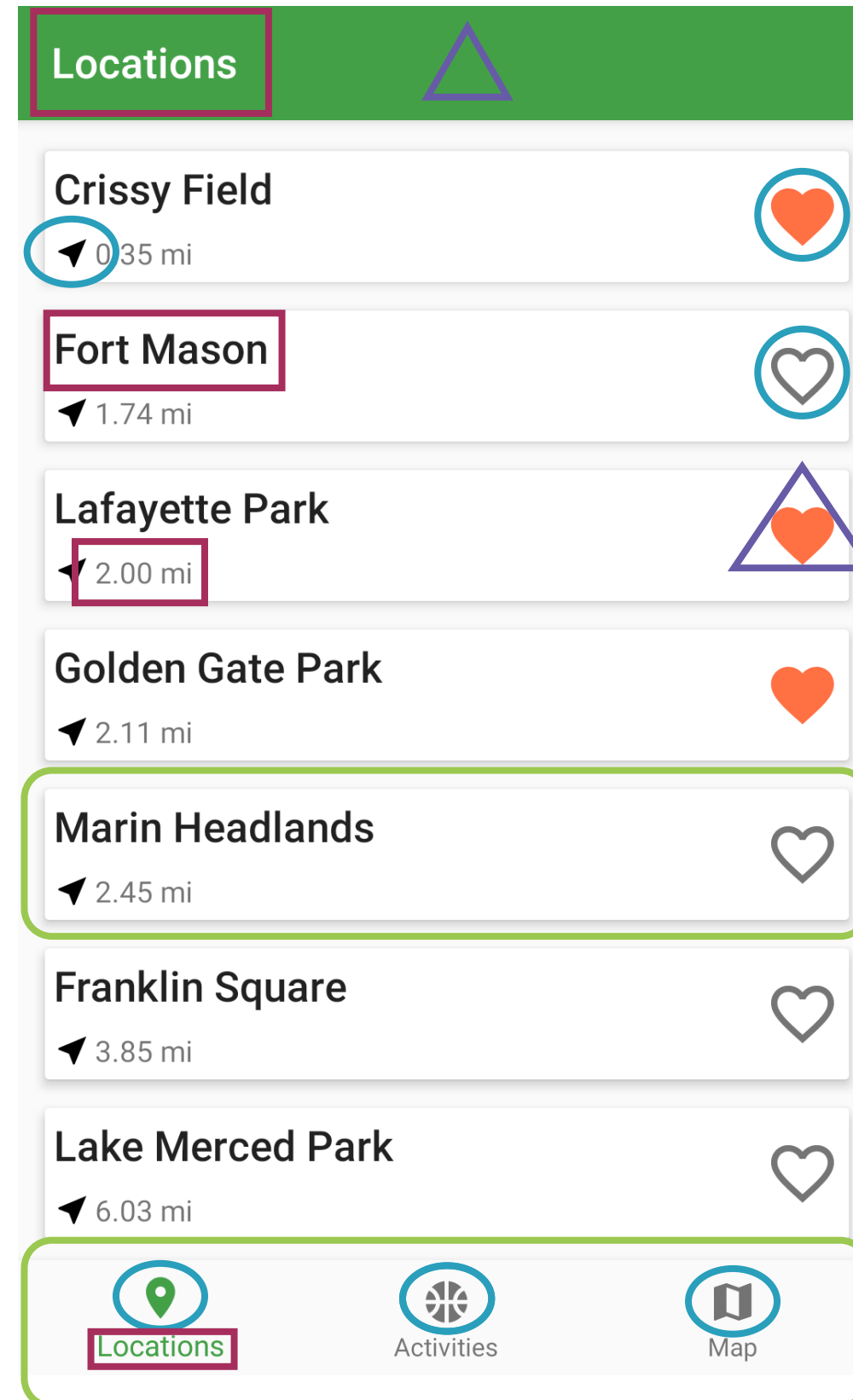
Material Design

Vectors

Fonts

Components

Colors



material.io

Primary		Secondary	
#43a047		#ff7043	
P		S	
P – Light #76d275	P – Dark #00701a	S – Light #ffa270	S – Dark #c63f17

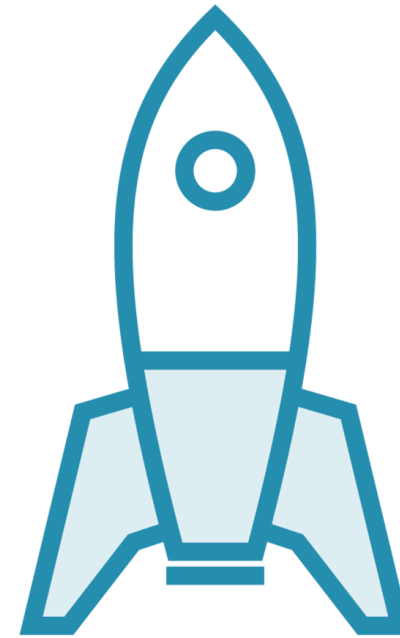
Adding Functionality with Google APIs

Firebase



Build

Authentication
Databases
Notifications



Release & Monitor

Remote Config
Device Test Lab
Google Analytics



Engage

Dynamic Links
Predictions
A/B Testing

Google Maps Platform

Maps

Google Map

Blue Dot

Street View

Routes

Directions

Distance Matrix

Roads

Places

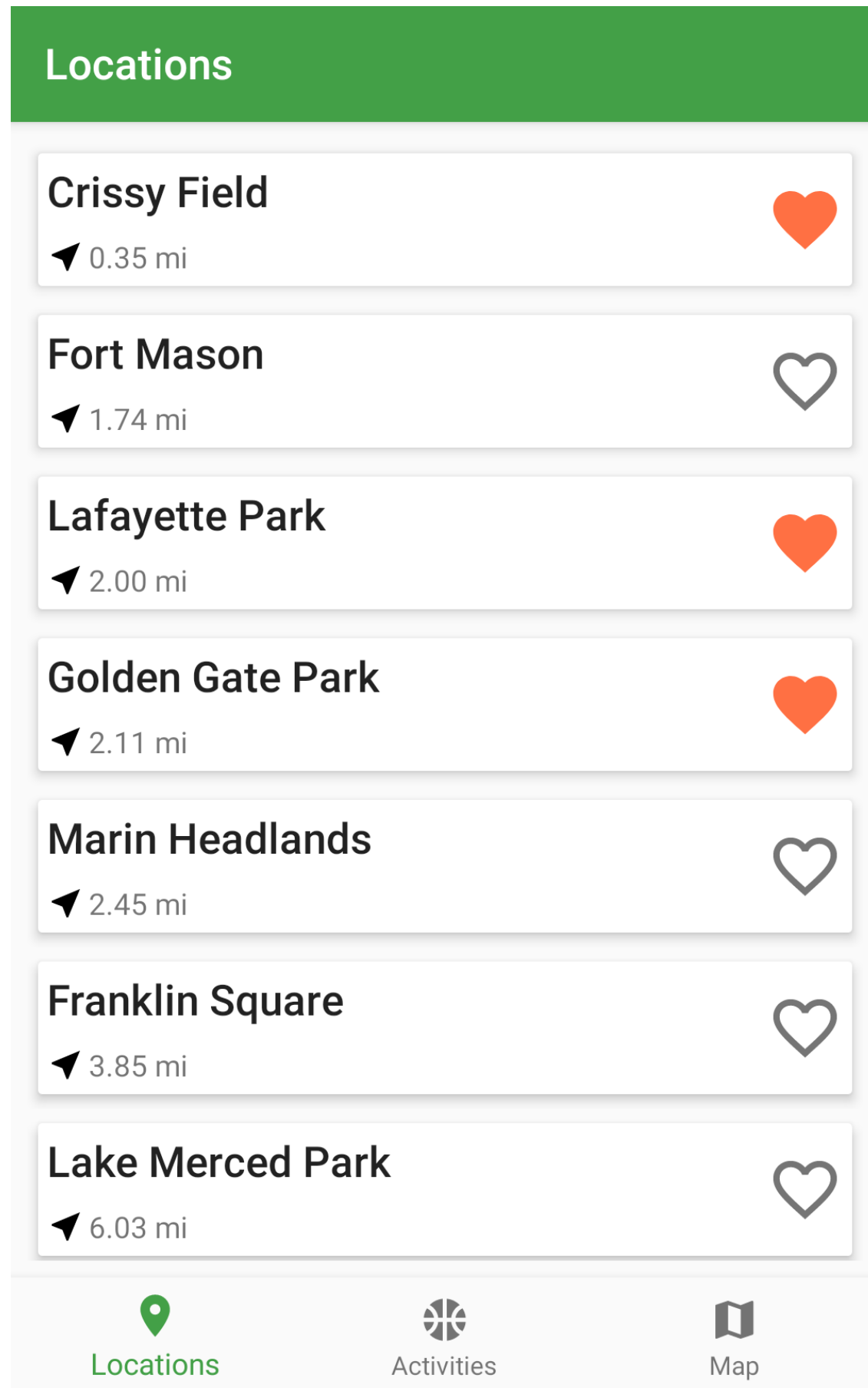
Place Search

Place Details

Utilities

Any RESTful API can easily
be integrated into a native
Android app

Better and Faster Code with Android Jetpack



Build UI

- Cards
- Bottom navigation

App structure

- Activities
- Fragments
- Navigate within app

Get location data

Store user favorites

Dependency injection

Unit testing

Material Design
Components

Activity

Fragment

Navigation

Firestore

Room

Hilt

Test

Using libraries balances
reduced boilerplate
with having to follow
specific patterns

Demo



Adding vector icons

Inspecting databases

Managing in-app navigation

Course Summary



Why develop native Android apps?

What is Kotlin and why does it matter?

How to develop native Android apps



Thank you!