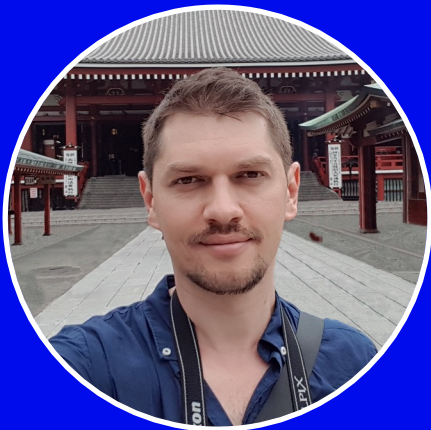




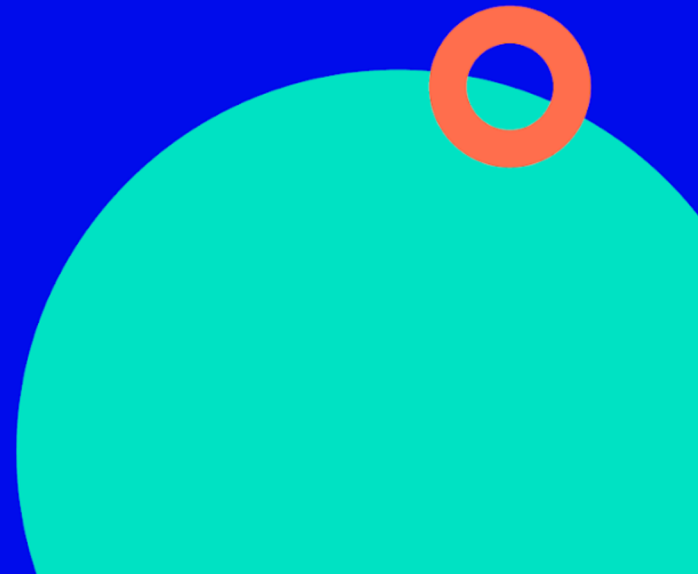
Migrating the UI



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Module 2

Module Intro and Project Setup





Module Intro and Project Setup

In this module you will learn:

- Project discovery and setup
- Imperative vs Declarative paradigm
- Enable Compose in our project
- Migrate a section of a screen
- Migrate a complete screen
- Implement an XML layout in Compose
- How state works in Compose
- Migrate a RecyclerView





App Demo

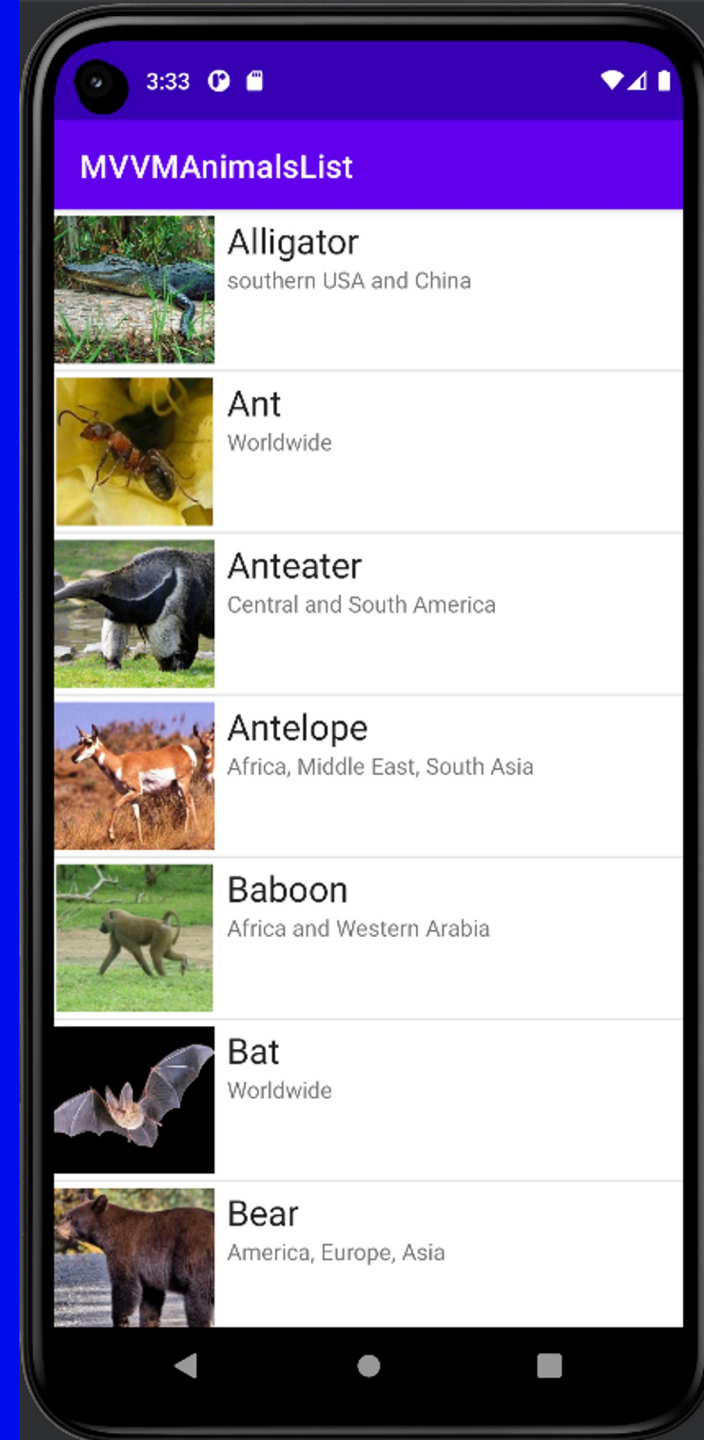
2 screens



App Demo

2 screens

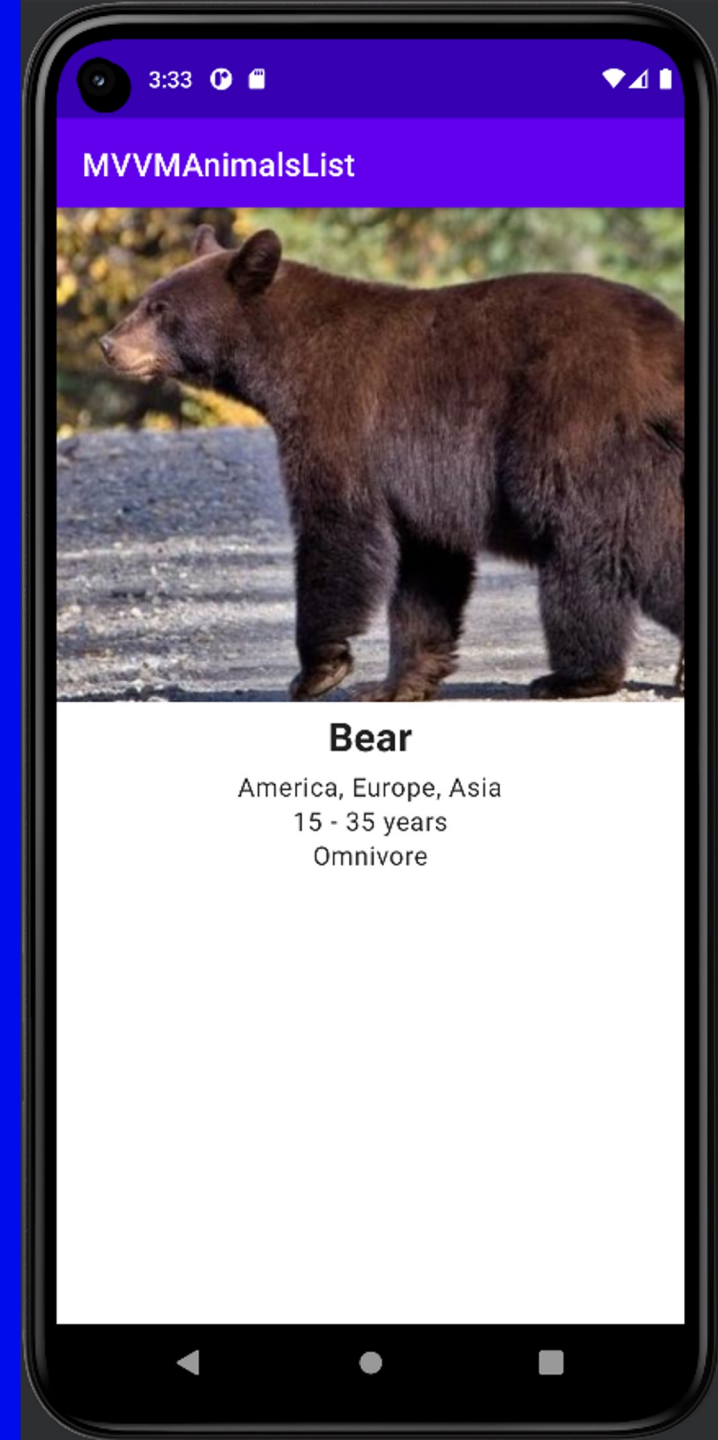
- list of animals



App Demo

2 screens

- list of animals
- animal details



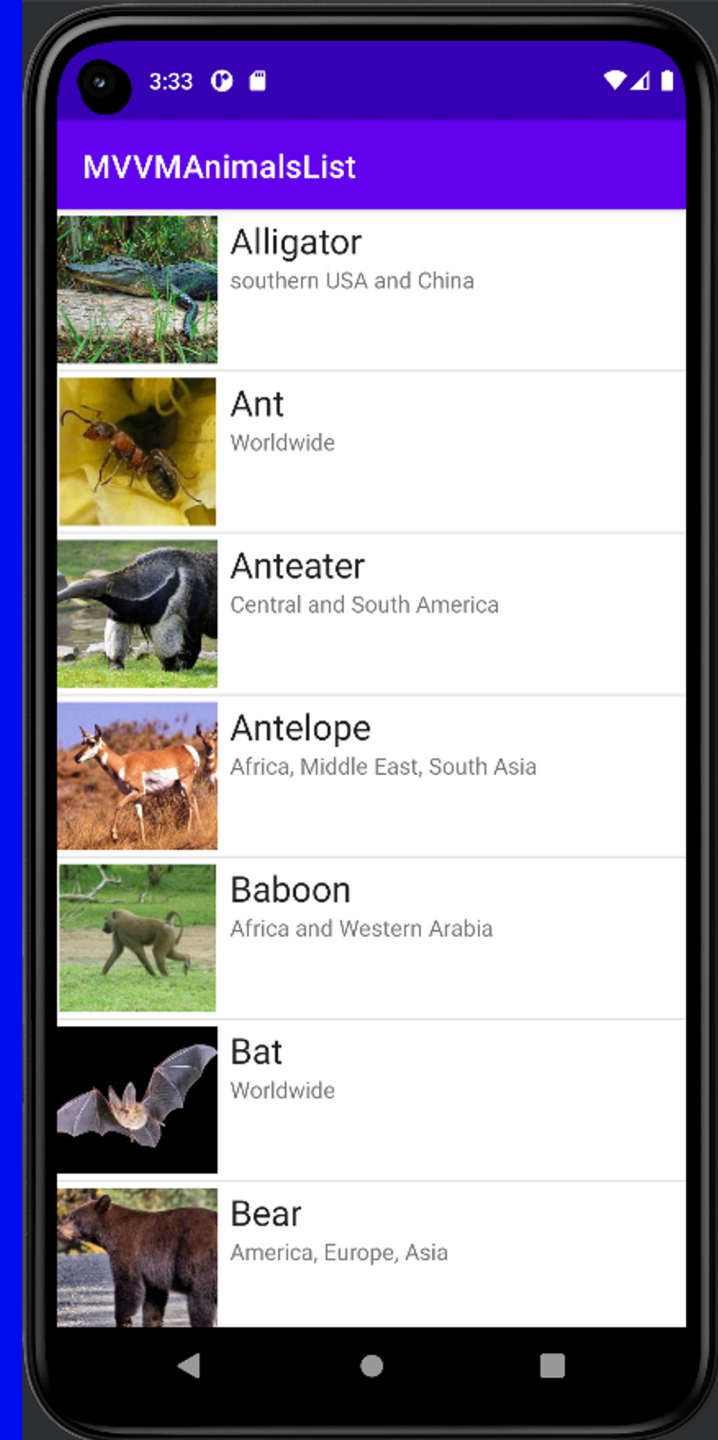
App Demo

2 screens

- list of animals
- animal details

Behind the scenes

- Activity / Fragment
- MVVM architecture
- Retrofit
- Glide
- ViewBinding
- Hilt
- XML Navigation
- Animations





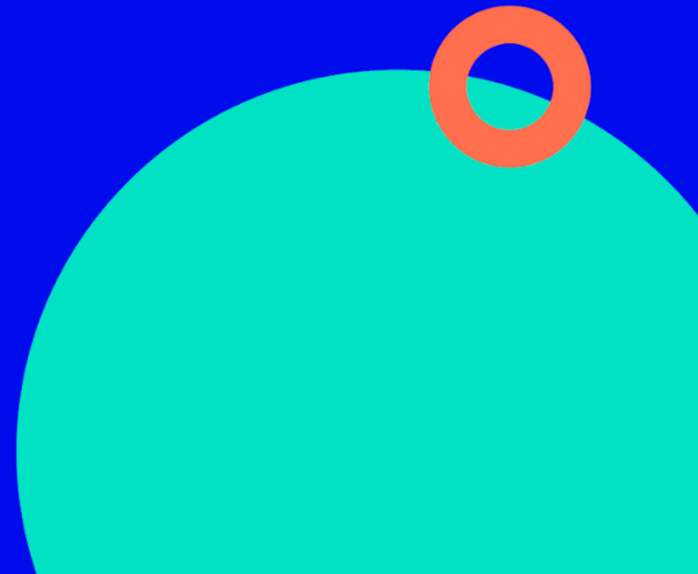
Imperative vs Declarative



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Imperative vs Declarative

Imperative: tree of widgets

- Walk the tree to update a certain View
- Add / remove children manually
- Add user interaction (.onClick)
- Update UI based on observable state

Declarative: composable functions

- State update triggers changes
- Only redraw composables that change
- Fast, idempotent and free of side effects*





Imperative vs Declarative

Add Composable functions to existing XML

Add XML to Composable functions

Mix Fragments with Composable screens

Mix widget trees with state based Composable functions

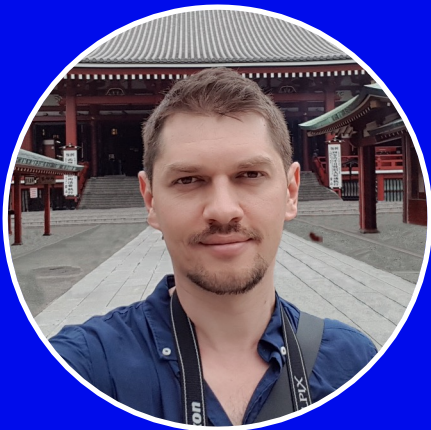
Theming works differently

Gradual approach to migration





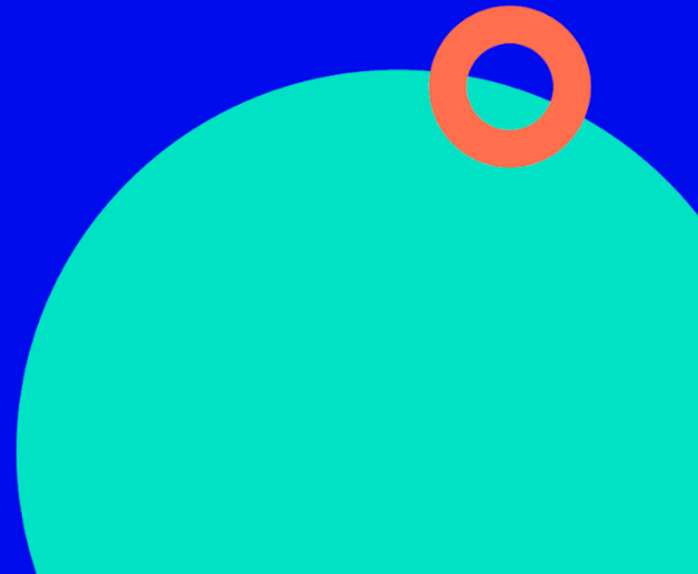
Add Compose to an existing project



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Add Compose to an existing project

Add Compose version in build.gradle project file

Enable Compose as a build feature

Set composeOptions

Add all required dependencies

