



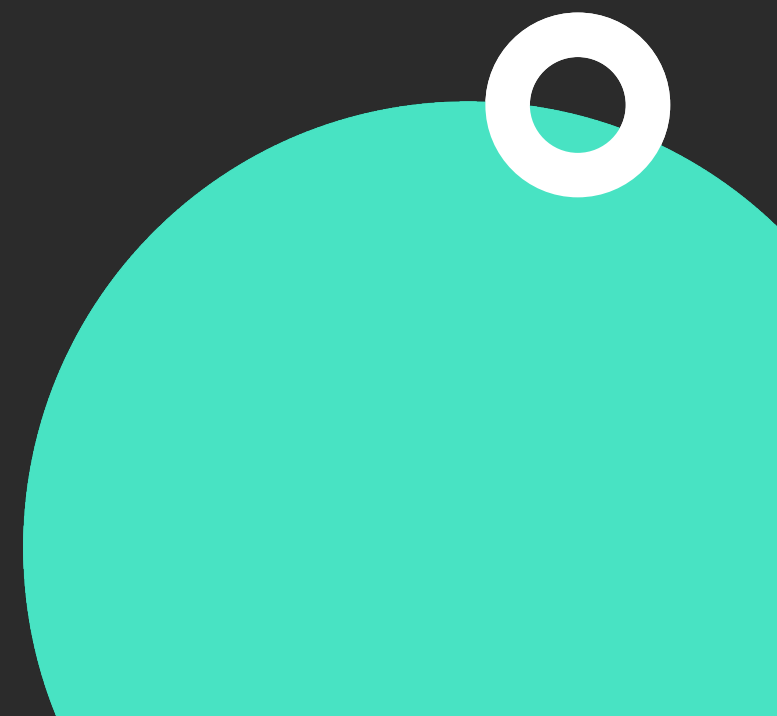
# Android Animations and Transitions with Jetpack Compose



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# Section 8

## Adding Animated Navigation Between Screens



# Section Overview

- Animated navigation and Accompanist
- Accompanist Navigation Animation Overview
- Code
- Wrap up



# Animated Navigation and Accompanist

- Animated navigation : more intuitive and easier to use
- Jetpack Compose Navigation does not YET support navigation animation
- Accompanist Navigation Animation : Library that we use to add animation support to Jetpack Compose navigation
- Project page : <https://github.com/google/accompanist>



# Code Time

- Folder : s8-adding-animated-navigation-between-screens/starter-project
- Files:
  - libs.versions.toml and app/build.gradle.kts
    - Add Accompanist Navigation Animation artifact to project
  - VoiceNavGraph.kt
    - Replace Jetpack Navigation with Compose Navigation
    - Customize Navigation animation in :
      - AnimatedNavHost
      - composable
      - navigation



# Transition parameters

- enterTransition : for content that enters screen
- exitTransition : for content that exits screen
- popEnterTransition : for content entering screen as result of back stack pop
- popExitTransition : for content exiting screen as result of back stack pop



# Section Summary

- Accompanist Navigation Animation Overview
- Add Accompanist Navigation Animation to the project
- Customize navigation animations



# Course Summary and Takeaways

- Compose Animations :
  - High-level : AnimatedVisibility, AnimatedContent, Crossfade, animateContentSize, InfiniteTransition, Transition
  - Low-level : Animatable, Animation, AnimationState, animate
- When and how to use a specific animation API in Compose
- Customize animation behavior by defining custom AnimationSpecs e.g. tween, spring, keyframes, repeatable, infiniteRepeatable, and snap
- Animation in real-world app : list animation, gesture animation, Lottie, navigation animation
- Animation best practices





# What to do next?

- Try to complete starter projects of each section without looking at solution
- Try to add more animations to the Voices app
- Be friends with references and samples as you develop :
  - [d.android.com/reference](http://d.android.com/reference)
  - [cs.android.com/androidx](http://cs.android.com/androidx)

