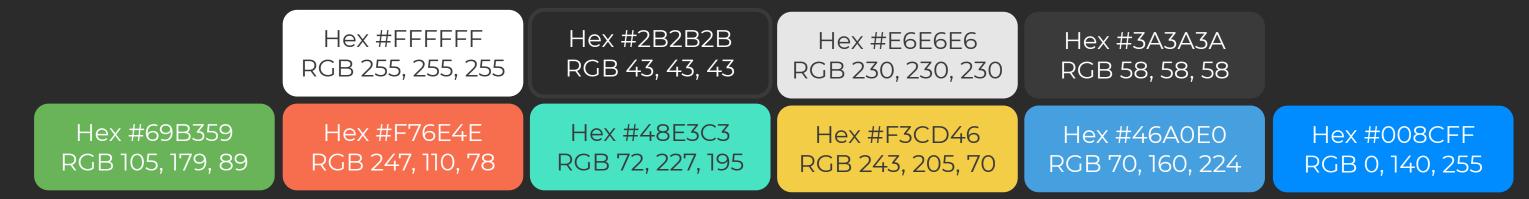
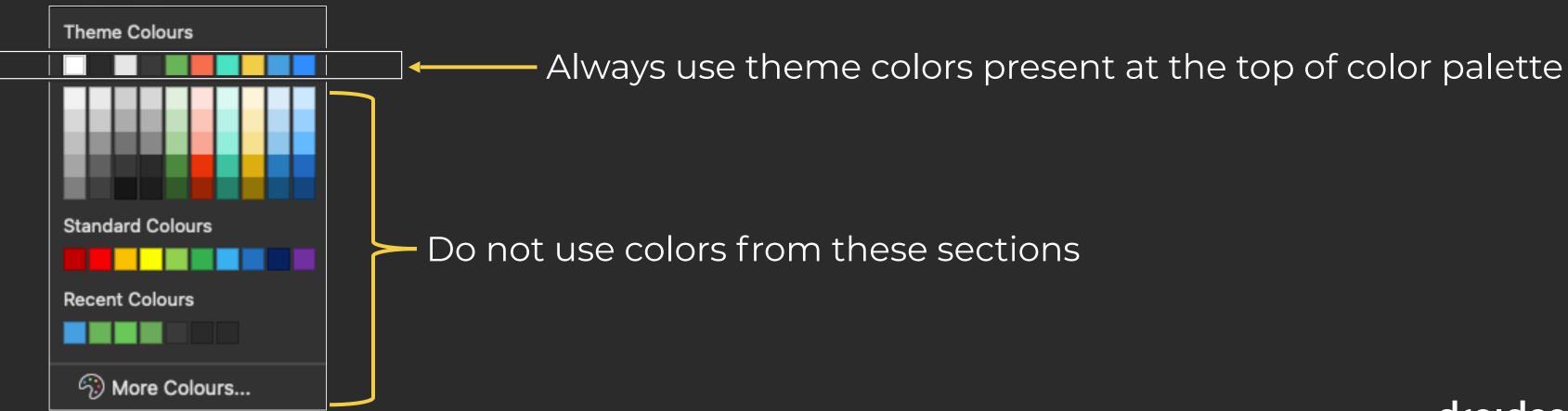
# Guidelines to Use Only Brand Colors in Slides

•The RGB and Hexadecimal values of theme colors are as follows:



•Use only Theme colors provided in the color palette dropdown









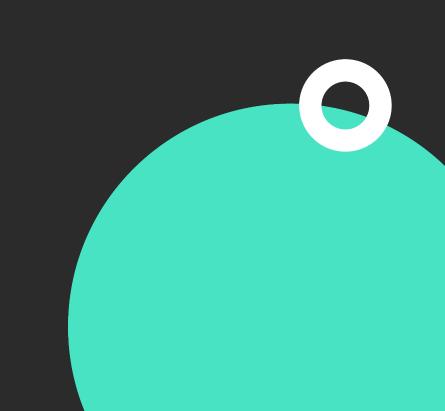
# Android Animations and Transitions with Jetpack Compose



## Mehdi Haghgoo

**y** @IAmMehdiHaghgoo

in in/mehdihaghgoo





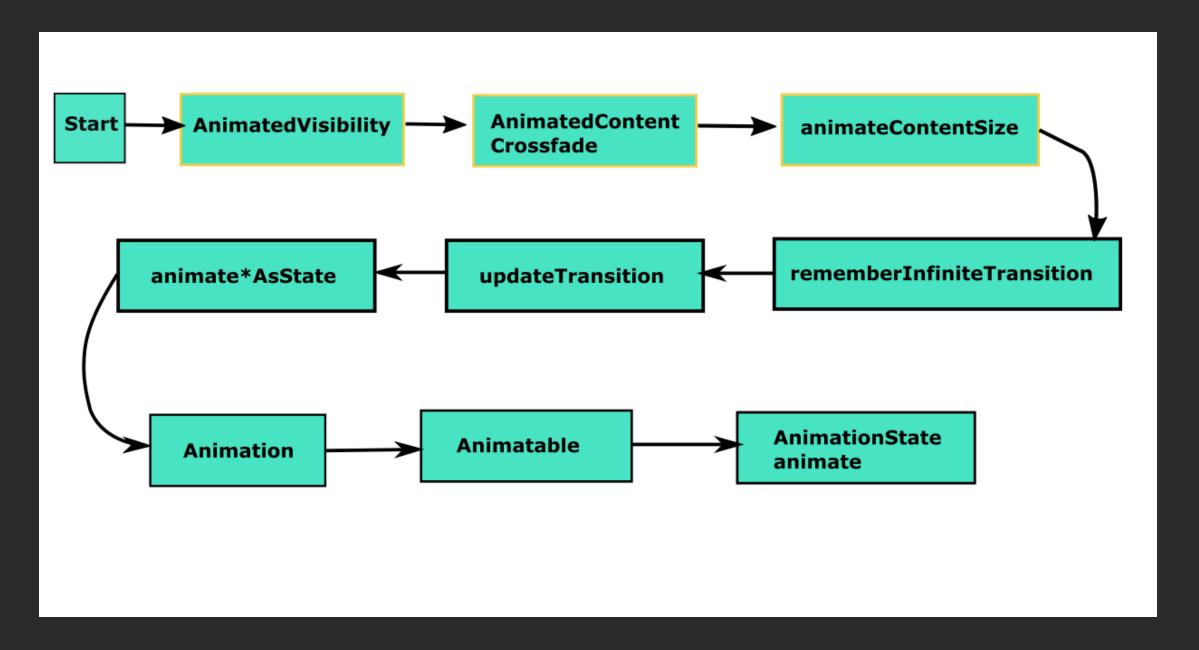
# Section 2

Animating Layout Change: High-Level Animations



## Section Overview

- Learn animation APIs:
  - AnimatedVisibility
  - AnimatedContent
  - Crossfade
  - animateContentSize
- Code
- Recap







## AnimatedVisibility

- Animate appearance or disappearance of content
  - Can wrap any content that is only visible when certain condition is true
  - By default a fade-through animation is performed
  - Custom appearance / disappearance animation can be used

```
AnimatedVisibility(
    visible = booleanState,
    enter = ...,
    exit = ...,
    label = "My Label"
) {
    GreetingBox()
}
```





#### AnimatedContent

- Animates its content based on a target state
  - Supports custom ContentTransform via transitionSpec parameter
  - You should use the lambda parameter passed to the AnimatedContent body

```
AnimatedContent(targetState = someState,
label = "MyLabel", transitionSpec = {
    fadeIn() with fadeOut() using
SizeTransform()
}){ targetState ->
    SomeContent(targetState)
}
```





#### Crossfade

- Toggles between two layouts with a crossfade animation
- State parameter passed to body lambda can be used to decide which content to show

```
Crossfade (targetState = someState,
    animationSpec = ...,

label = "My Crossfade"
){ state->
    when(state){
        A -> BoxA()
        B -> BoxB()
    }
}
```





### animateContentSize

Modifier that animates a component's size change

```
Box(Modifier
    .animateContentSize() //Be sure to put
this before size modifiers
    .size(
         if (someCondition) 200.dp else
150.dp
    )
)
```





# Tips

- Many high-level animation APIs take a label parameter to allow easier preview and debugging in Android Studio
- Animated Visibility and Animated Content let their children use animate Enter Exit for custom animation





## Code Time

- Folder: s2-animating-layout-changes/starter-project
- Files:
  - AnimatedContentCrossfadeSheet.kt
    - AnimatedContent
    - Crossfade
  - AnimatedVisibilitySheet.kt
    - AnimatedVisibility
  - AnimateContentSizeSheet.kt
    - animateContentSize





# Section Summary

- Animate layout change using :
  - AnimatedVisibility
  - AnimatedContent
  - Crossfade
  - animateContentSize

- What's next?
  - High-level animations continued...



