

Utilize Gestures



Richard Monson-Haefel

SR. SOFTWARE ENGINEER

www.monsonhaefel.com



Overview



Common Components and Gestures

Touchable API

Gesture Response System

Gesture Handlers



Built in
Gesture
Support

Button

Drawer

FlatList

Keyboard

Picker

ScrollView

Slider

Switch

Tab

TextInput



The Touchable API



Touchable API

TouchableOpacity

TouchableHighlight

TouchableWithoutFeedback

TouchableNativeFeedback



Touchable API

TouchableOpacity

TouchableHighlight

TouchableWithoutFeedback

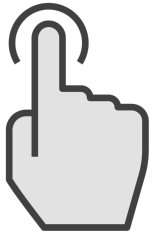
TouchableNativeFeedback



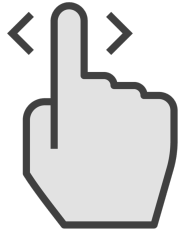
The Gesture Response Lifecycle



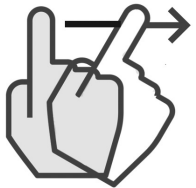
Common Gestures



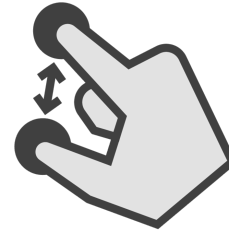
Tap, Double Tap, Long Press, Force Press



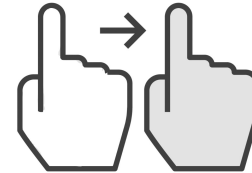
Pan, Scroll, Swipe



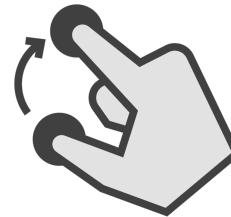
Flick



Pinch and Spread



Drag



Rotate

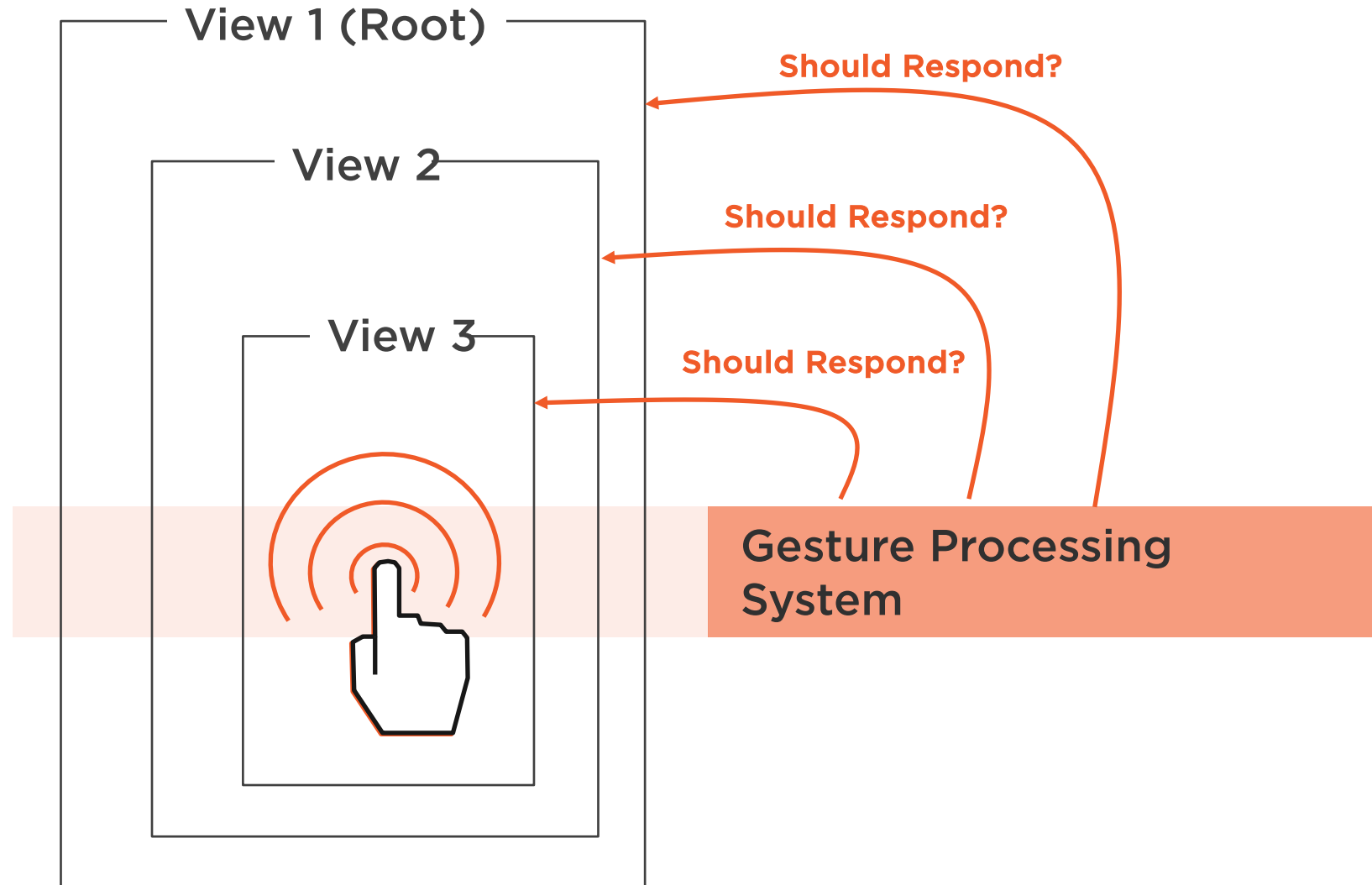
onPress Gesture Response



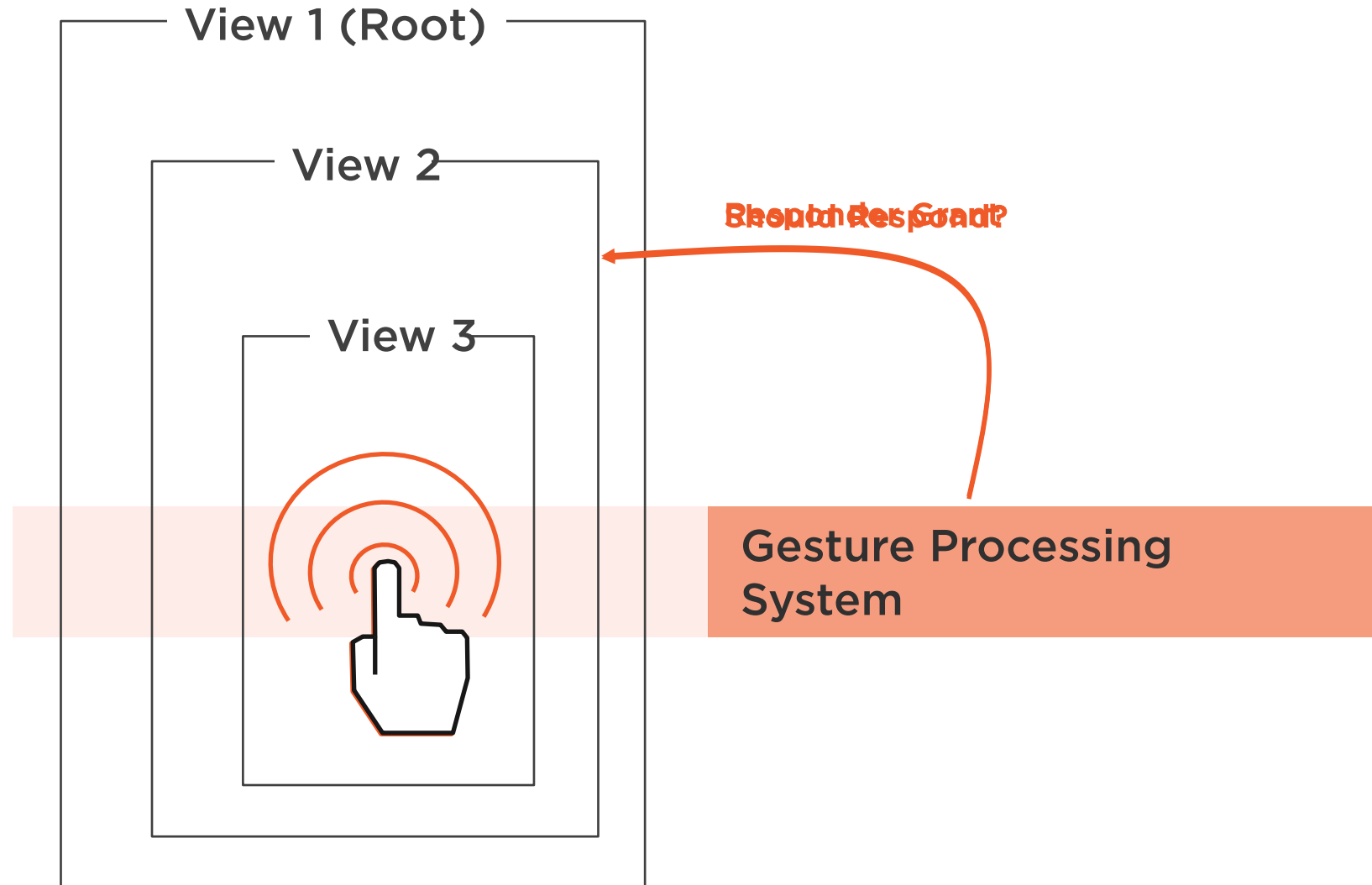
Gesture Processing
System

```
const HomeScreen = ({navigation}) => {  
  
  return (  
    <View style={styles.mainView}>  
      <TouchableOpacity  
        style={styles.touchableView}  
        onPress={() => {  
          navigation.navigate("Home_to_Details",{movie: {  
            title: "Star Wars",  
            release: 1977,  
            screenNumber: 1  
          }}) }>  
        <View>  
          <Text style={styles.touchableText}>Star Wars</Text>  
        </View>  
      </TouchableOpacity>  
      <TouchableHighlight  
        style={styles.touchableView}  
        underlayColor="darkorange"  
        onPress={() => {  
          navigation.navigate("Home_to_Details",{movie: {  
            title: "Star Wars",  
            release: 1977,  
            screenNumber: 1  
          }}) }>  
        <View>  
          <Text style={styles.touchableText}>Star Wars</Text>  
        </View>  
      </TouchableHighlight>  
    </View>  
  )  
}
```

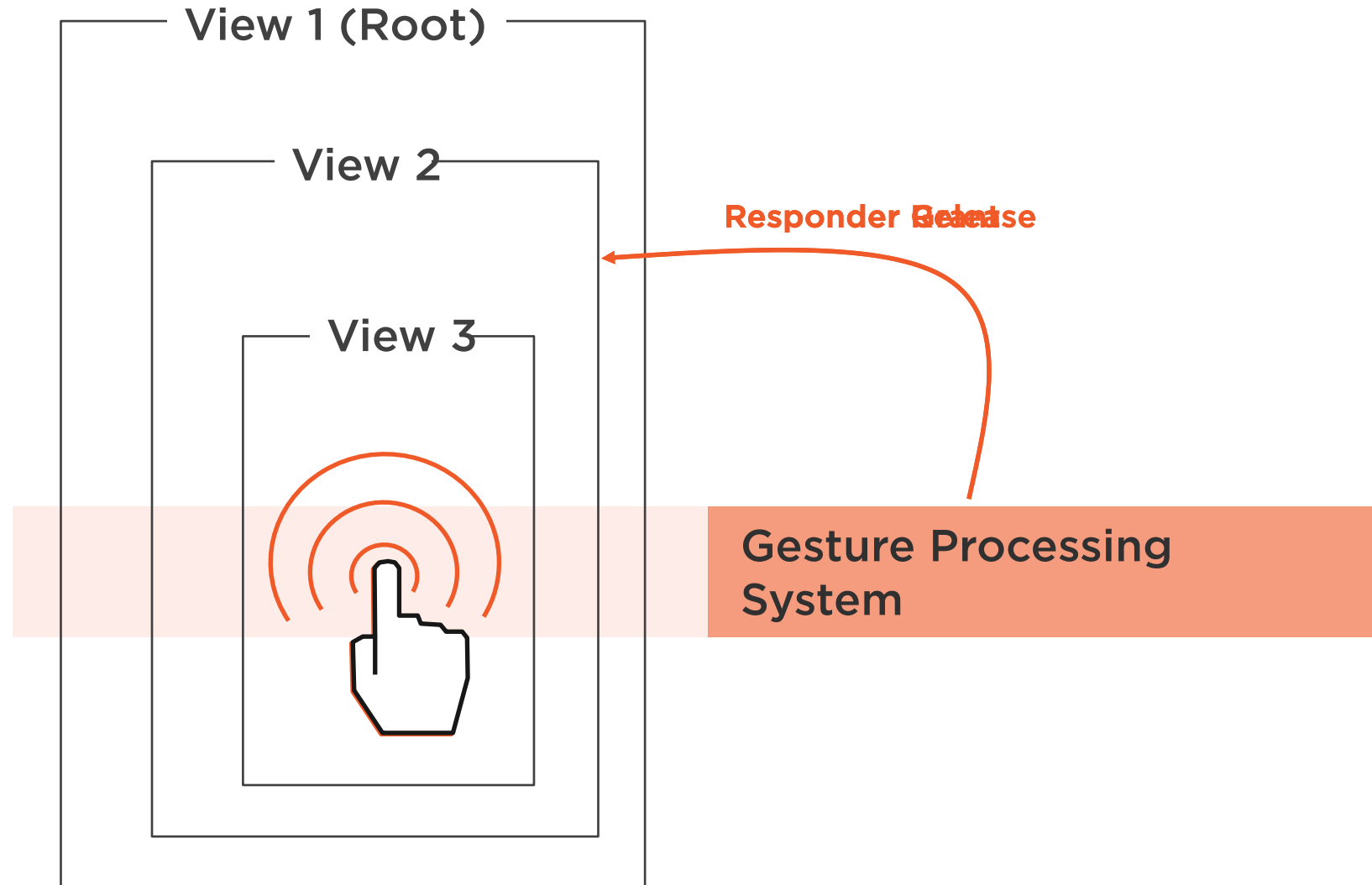
Touch Processing and Nested Components



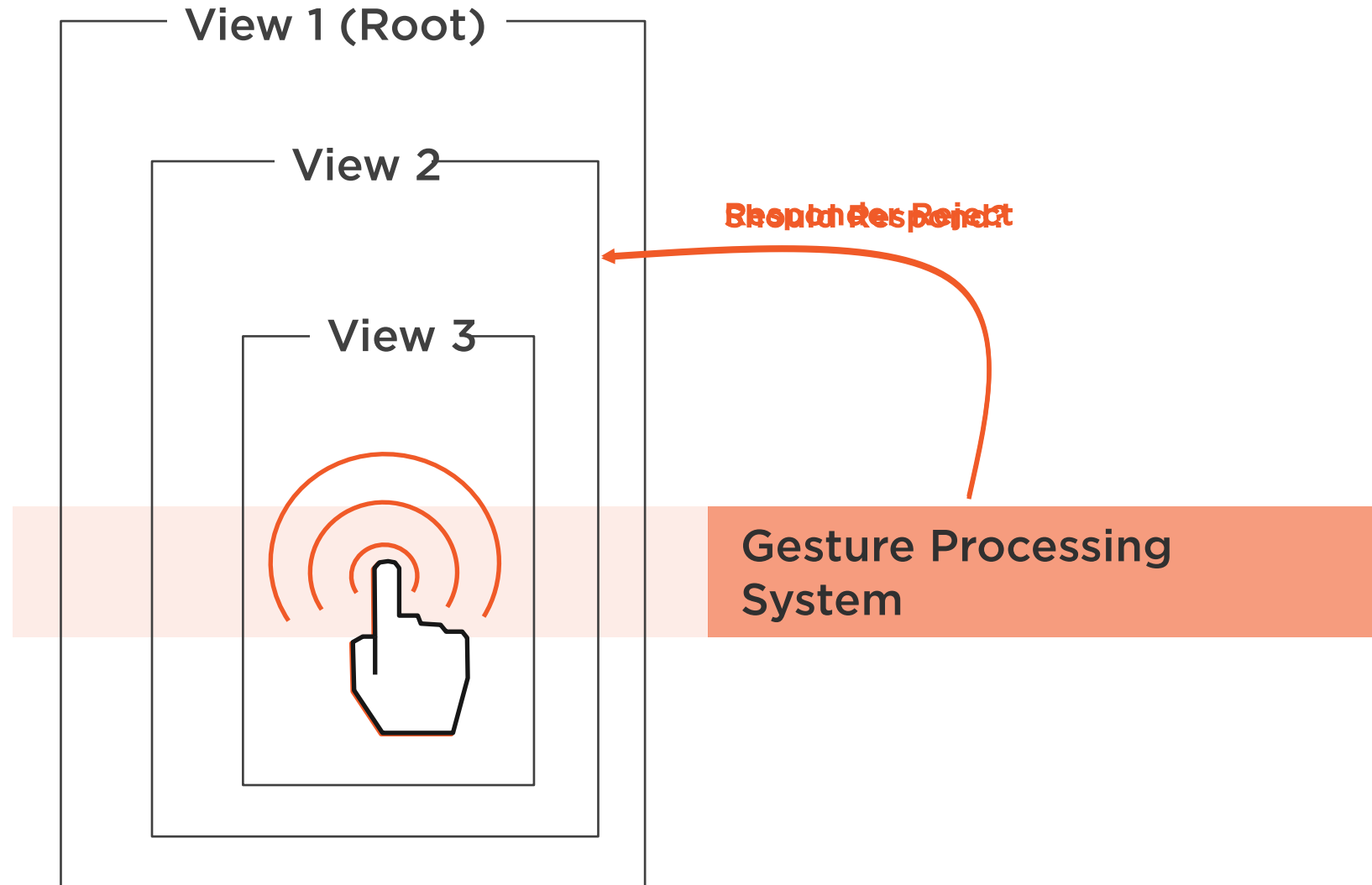
Touch Processing and Nested Components



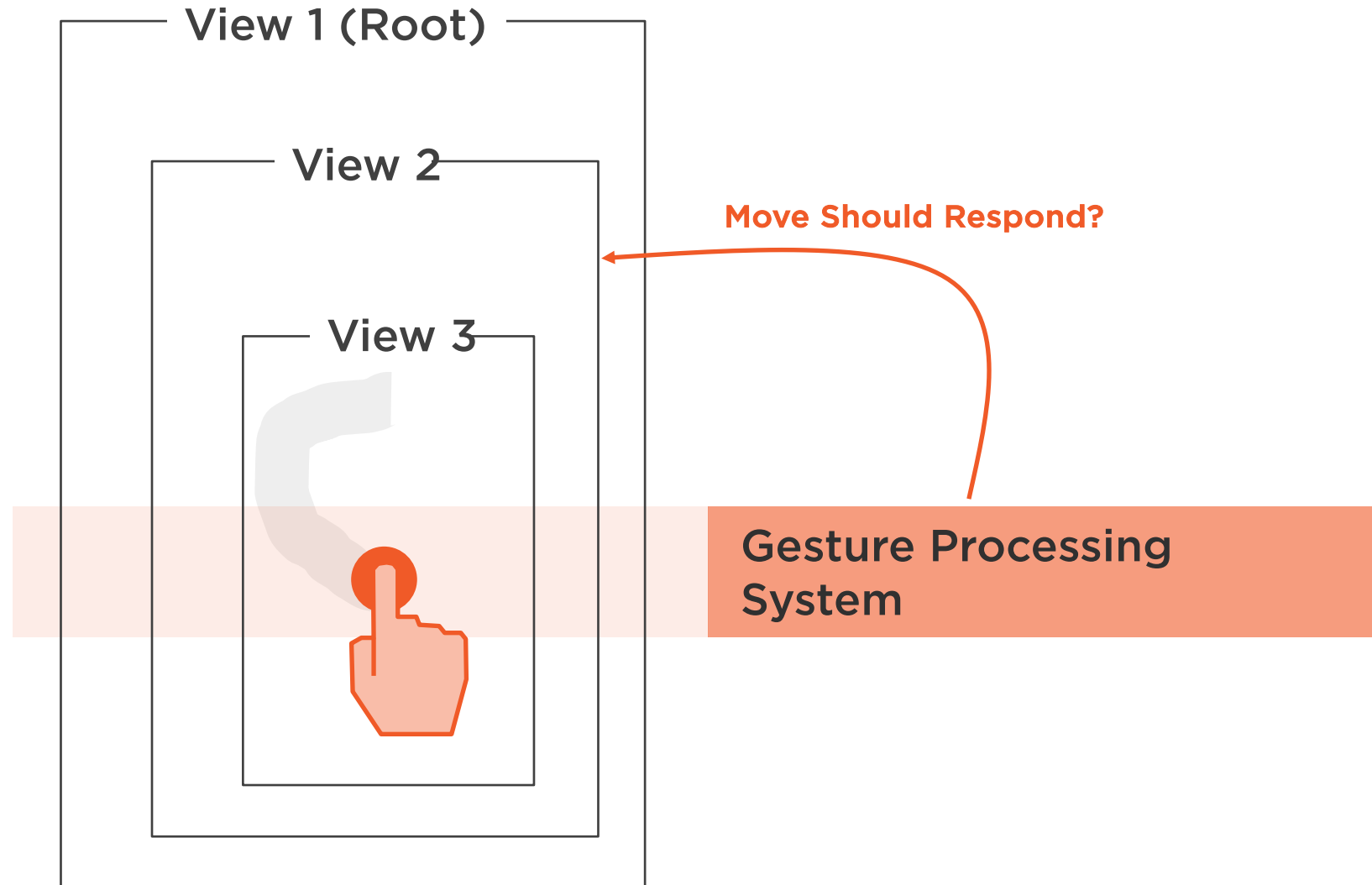
Touch Processing and Nested Components



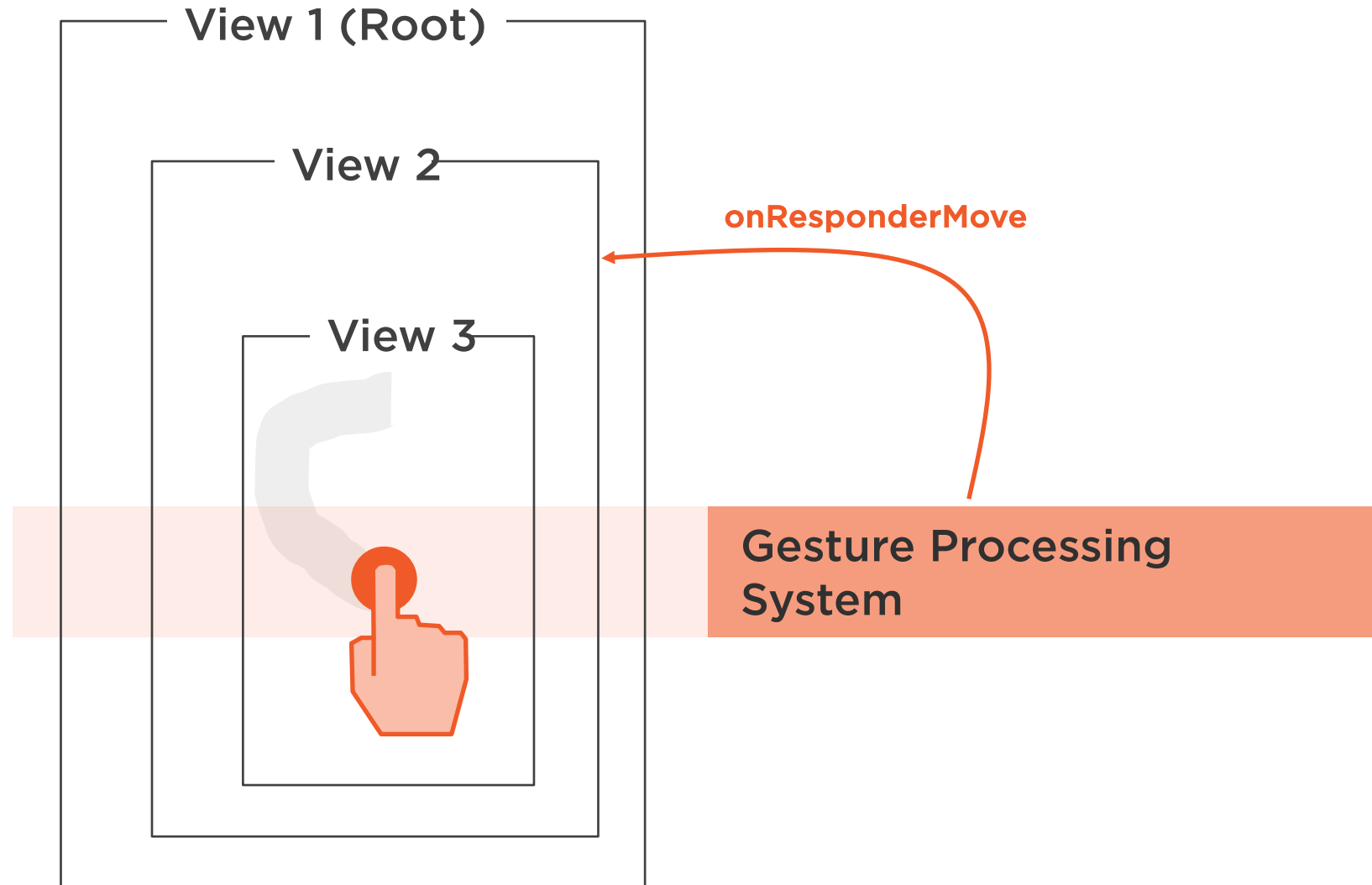
Touch Processing and Nested Components



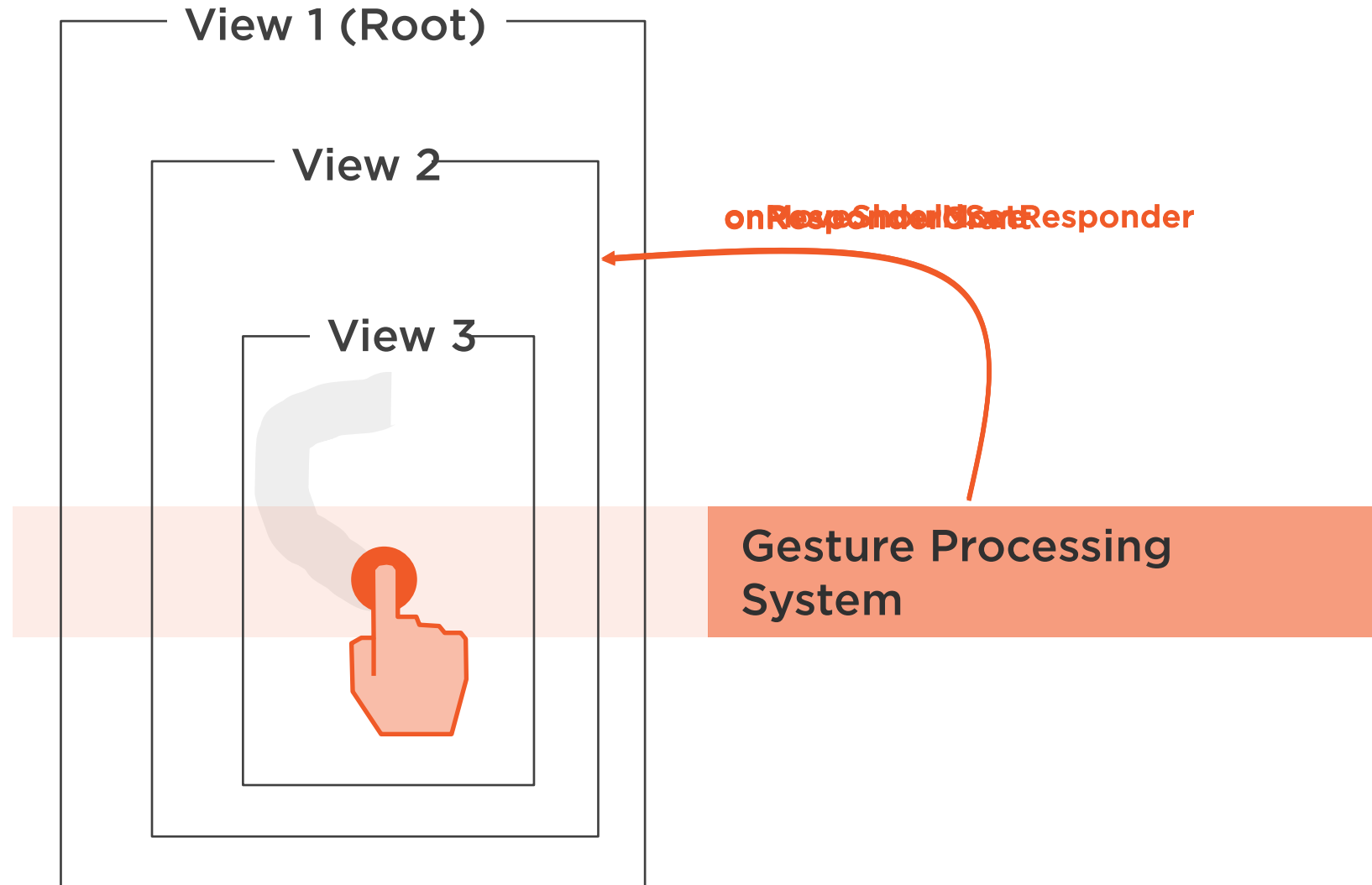
Touch Processing and Nested Components



Touch Processing and Nested Components



Touch Processing and Nested Components



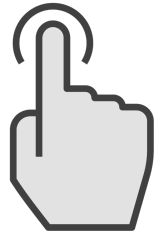
The Gesture Response Handlers



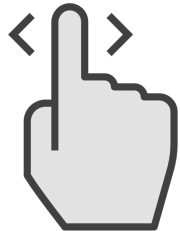
Gestures Handlers



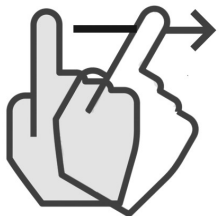
ForcePressGestureHandler



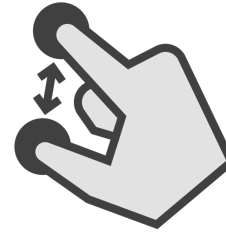
TapGestureHandler



PanGestureHandler



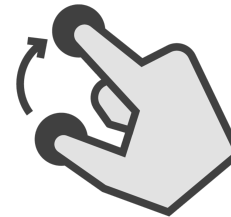
FlingGestureHandler



PinchGestureHandler



LongPressGestureHandler



RotationGestureHandler

Summary



Gesture Response System Lifecycle

- Bottom-up process
- Touch gestures before move gestures

Touchable API Components

- TouchableOpacity
- TouchableHighlight
- TouchableWithoutFeedback
- TouchableNativeFeedback

Gesture Responder Handlers

- Install and import gesture handlers
- Seven types of gesture handlers
 - Force, Tap, Pan, Fling, Pinch, Long Press, Rotational

