## Анимация в React Native

## Код программы:

```
import Constants from 'expo-constants';
 Animated,
  StyleSheet,
 Button, Dimensions
const windowWidth = Dimensions.get('window').width;
const windowHeight = Dimensions.get('window').height;
const scrollX = new Animated.Value(0)
const springValue = new Animated.Value(1)
const imageRotateValue = new Animated.Value(0)
const interpolateScrollViewRotation = imageRotateValue.interpolate({
 inputRange: [0, 100],
 outputRange: ["0deg", "360deg"]
const images = new Array(6).fill('https://images.unsplash.com/photo-
1556740749-887f6717d7e4');
    Animated.sequence([
      Animated.timing(imageRotateValue, {
        toValue: 360,
       duration: 2000,
        useNativeDriver: true,
      Animated.timing(imageRotateValue, {
       toValue: 0,
        duration: 2000,
       useNativeDriver: true
    transform: [
      { perspective: 800 },
        scale: scrollX.interpolate({
          inputRange: [
            (index - 1) * windowWidth,
index * windowWidth,
            (index + 1) * windowWidth
          outputRange: [0.5, 1, 0.5]
```

```
rotateX: scrollX.interpolate({
          inputRange: [
            (index - 1) * windowWidth,
            index * windowWidth,
            (index + 1) * windowWidth
          outputRange: ["15deg", "0deg", "15deg"]
        rotateY: scrollX.interpolate({
          inputRange: [
            (index - 1) * windowWidth,
            index * windowWidth,
            (index + 1) * windowWidth
          outputRange: ["15deg", "0deg", "15deg"]
      <Animated.View style={[styles.scrollPage,</pre>
        {transform: [{scale: springValue}, {rotate:
interpolateScrollViewRotation}]}]}>
        <Animated.View style={[styles.screen,</pre>
transitionAnimation(props.index)]}>
          {props.children}
 const fadeAnim = useRef(new Animated.Value(0)).current // Initial value
    Animated.timing(
        fadeAnim, {
          duration: 1000,
          useNativeDriver: true,
  }, [fadeAnim])
            opacity: fadeAnim,
        {props.children}
```

```
<SafeAreaView style={styles.container}>
        <FadeInView style={styles.scrollContainer}>
          <ScrollView
              style={styles.scrollViewStyle}
               onScroll={Animated.event([
                   nativeEvent: {
                     contentOffset: {
                       x: scrollX,
               ], {useNativeDriver: false})}
             {images.map((image, imageIndex) => {
                   <AnimatedImageCardView</pre>
style={styles.card}>
                       <View style={styles.textContainer}>
                         <Text style={styles.infoText}>
                       </View>
                     </ImageBackground>
          <View style={styles.indicatorContainer}>
             {images.map((image, imageIndex) => {
               const width = scrollX.interpolate({
                 inputRange: [
                   windowWidth * (imageIndex - 1),
windowWidth * imageIndex,
                   windowWidth * (imageIndex + 1)
                 outputRange: [8, 16, 8],
                extrapolate: "clamp"
                       key={imageIndex}
                       style={[styles.normalDot, { width }]}
          </View>
        </FadeInView>
        <View style={{ margin: 30}}>
```

```
</SafeAreaView>
const styles = StyleSheet.create({
   flex: 1,
   paddingTop: Constants.statusBarHeight,
   alignItems: "center",
   justifyContent: "center"
 fadingContainer: {
   backgroundColor: "powderblue"
 scrollContainer: {
   flex: 1,
   alignItems: "center",
   justifyContent: "center"
 scrollViewStyle: {
   flex: 1,
   backgroundColor: 'white',
 screen: {
   flex: 1,
   justifyContent: "center",
   alignItems: "center",
 button: {
   backgroundColor: "teal",
   height: 50,
   marginTop: 80,
   borderRadius: 15,
   alignItems: "center",
   color: "white",
   padding: 12,
   paddingHorizontal: 20,
   fontWeight: "bold",
   fontSize: 18,
 card: {
   width: windowWidth - 20,
   height: windowHeight / 2,
   borderRadius: 10,
   alignItems: "center",
   justifyContent: "center",
   backgroundColor: "rgba(0,0,0, 0.7)",
   paddingHorizontal: 24,
   paddingVertical: 8,
   borderRadius: 5
   fontSize: 16,
   fontWeight: "bold"
```

```
normalDot: {
  height: 8,
  width: 8,
  borderRadius: 4,
  backgroundColor: "silver",
  marginHorizontal: 4
},
scrollPage: {
  width: windowWidth,
  padding: 20,
},
indicatorContainer: {
  flexDirection: "row",
   alignItems: "center",
   justifyContent: "center",
  marginBottom: 30,
},
outerScroll: {
  flex: 1,
  flexDirection: "column",
},
row: {
  flex: 1,
  },
})
```

Пример работы:

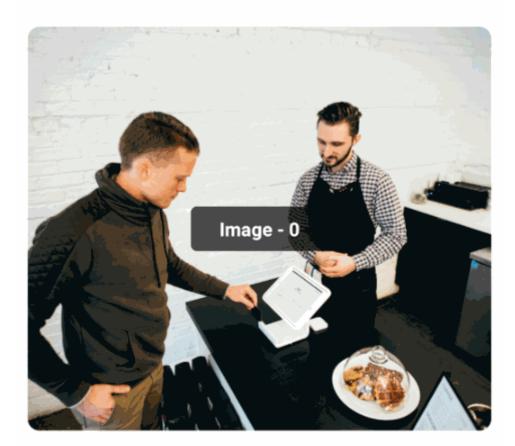












ANIMATION





