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# Accessibility

Why it's so important  
Design considerations  
React Native specifics



# What is accessibility?

Accessibility is about helping everyone use your app, with or without disability.

People with disabilities usually have more hurdles when accessing websites & apps. They may need additional considerations.



Vision



Hearing



Mobility



Cognitive

# Why is it so important?

- Access to technology is a basic human right.
- Accessibility helps everyone, not just people with disabilities.
- The European Accessibility Act will require apps & websites to be accessible by 2025.
- Unfortunately, most apps & websites are not accessible enough yet.



# What can we do about it?

A good design makes a big difference:

- High enough contrast between colours
- Descriptive links, buttons & headings
- Readable font size
- Easy to understand language
- Easy to find features
- Use a combination of colour, text, icons on elements

Bad Contrast

Contrast Ratio: 4.41:1

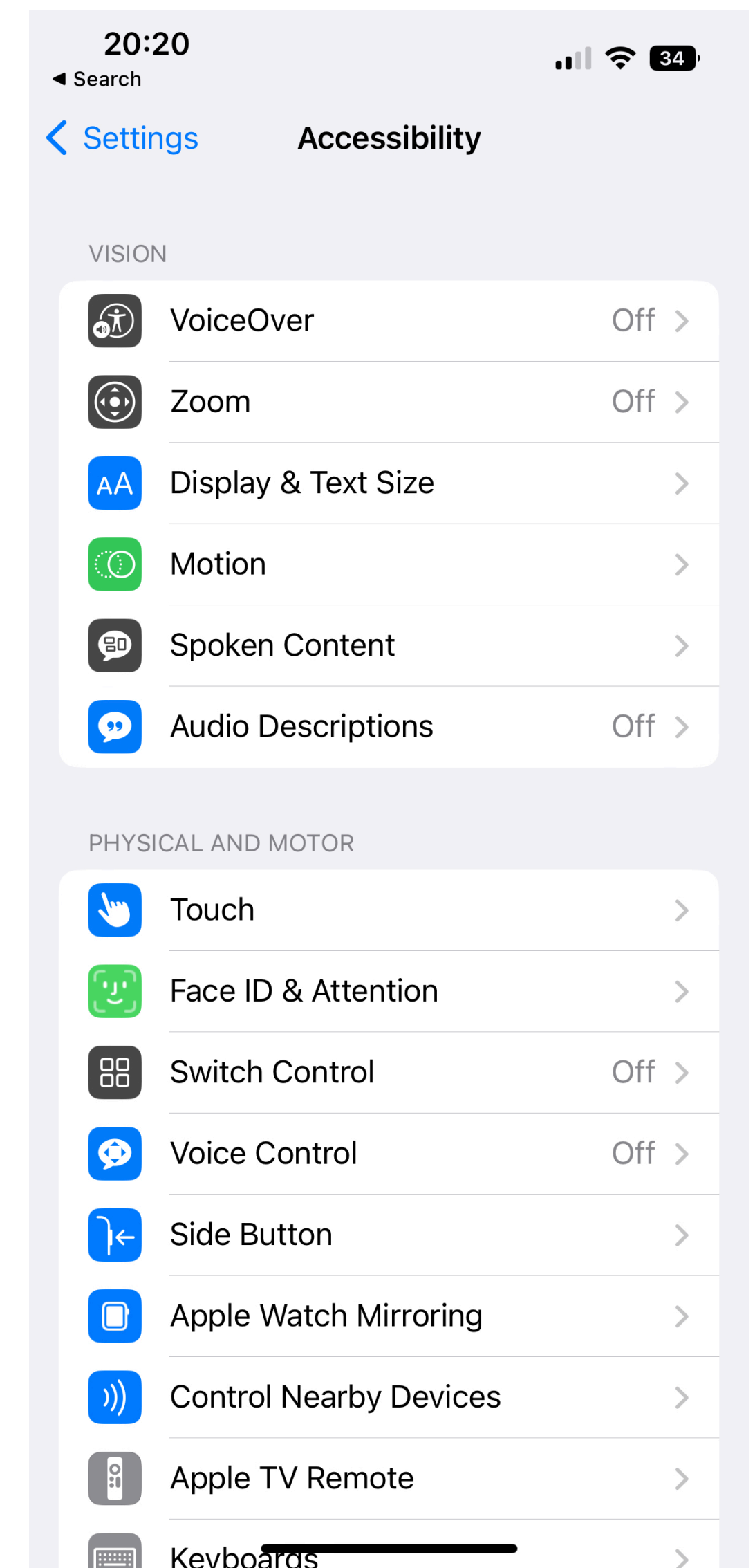
Good Contrast

Contrast Ratio: 13.9:1

# Accessibility in React Native

React Native has accessibility properties & listeners that can be used to make your app more accessible.

It works with the device's accessibility features:  
(screen readers, increased font size, greyscale)





# Accessible RN elements

Here are accessibility properties we can use:

```
<TouchableOpacity  
  accessible // groups child elements into one  
  importantForAccessibility="no-hide-descendants" // android  
  accessibilityLabel="Overwrite the text spoken out"  
  accessibilityHint="Additional text"  
  accessibilityRole="button"  
  accessibilityState={{ disabled: true }}  
>
```



# More events, listeners &

```
AccessibilityInfo.announceForAccessibility(message) // State change
```

```
AccessibilityInfo.isScreenReaderEnabled().then(() => {})
```

```
<View
  accessibilityRole="tab"
  onAccessibilityTap={() => {
    navigation.navigate(slides[index + 1]?.name); // move to next tab
    AccessibilityInfo.announceForAccessibility(slides[index + 1]?.label);
  }}
>
  <Text allowFontScaling maxFontSizeMultiplier={2}>
    Font scaling ftw!
  </Text>
</View>
```



# Tips to help you!

Making an app accessible takes continuous effort.

- Enable a screen reader and check your app from an accessibility standpoint. Do you get stuck? Can it be improved?
- Use TypeScript to your advantage.
- Linter: `eslint-plugin-react-native-a11y`





**Thank you for your time!**

**Any questions?**