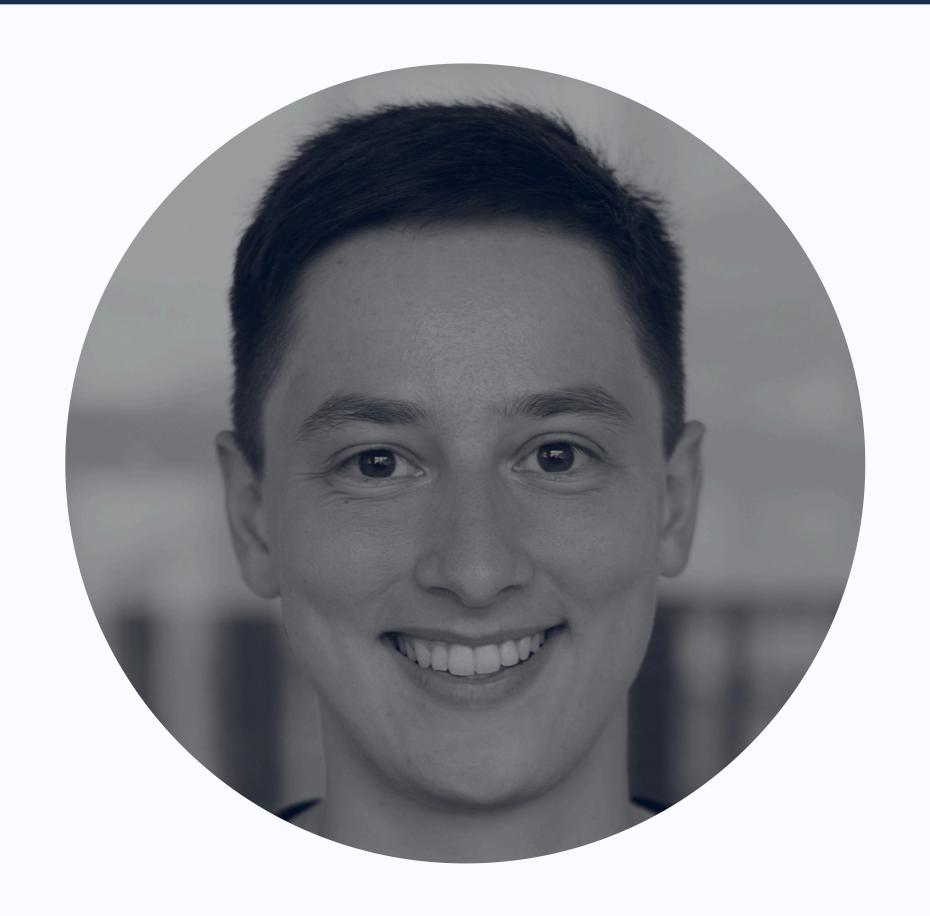
Accessibility as a First Class Citizen

Sophie Au (she/they/he)

Frontend-y Fullstack Developer Token Diversity Person

sophieau.com
@SolviAu



Accessibility in General

Accessibility in React Native



· Blind / visually-impaired

- · Blind / visually-impaired
- · Deaf / hearing-impaired
- Motor-impaired
- Neurological disorders
- · Learning disabilities
- Mental disorders

- · Blind / visually-impaired
- · Deaf / hearing-impaired
- Motor-impaired
- Neurological disorders
- · Learning disabilities
- Mental disorders

- · Slow / no internet
- Old / slow device
- · Small / large device
- Personal sensibilities
- Left-handedness
- Small hands

Why Should We Care?

Why Should We Care?

· It's the right thing to do

· Not being accessible is expensive in the long run

Why Is Bad Accessibility Expensive?

- Risk of getting sued
- · Fixing accessibility issues later on takes time
- · (Potential) employees/users value accessibility
- Untapped user base (15%+ of world population)

How Do We Become More Accessible?

Build in Accessibility From the Start

Feature Discovery

- Consider accessibility implications
- · Estimate with accessibility in mind

Design

- High contrast colors
- Accomodate zoom levels
- · Large tap areas
- · Loading and error states
- Simple and short flows

•



Content

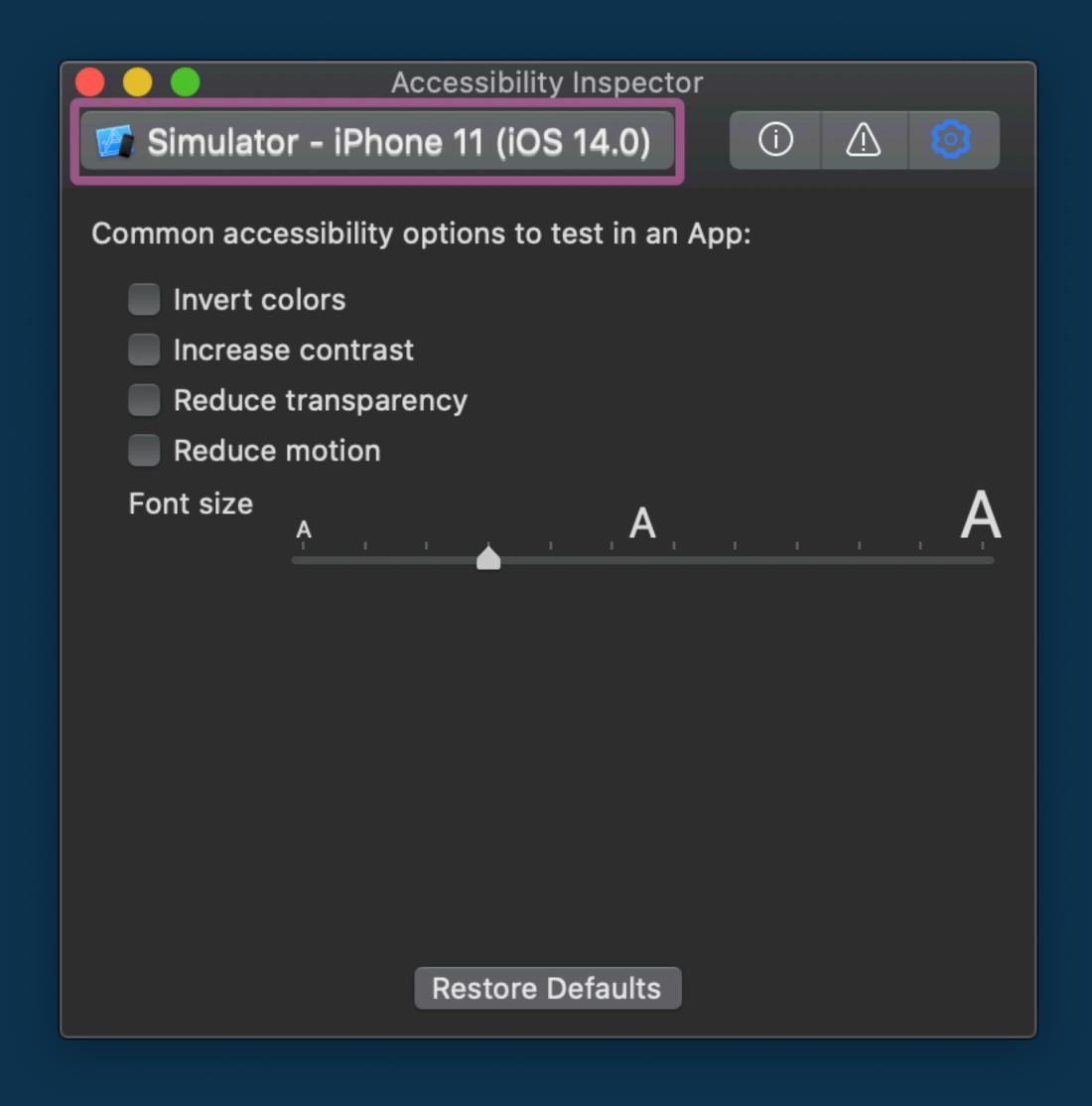
- · Adapt language level to target user
- · Avoid gendered, religious, offensive language
- · Avoid (accidentally) condescending language

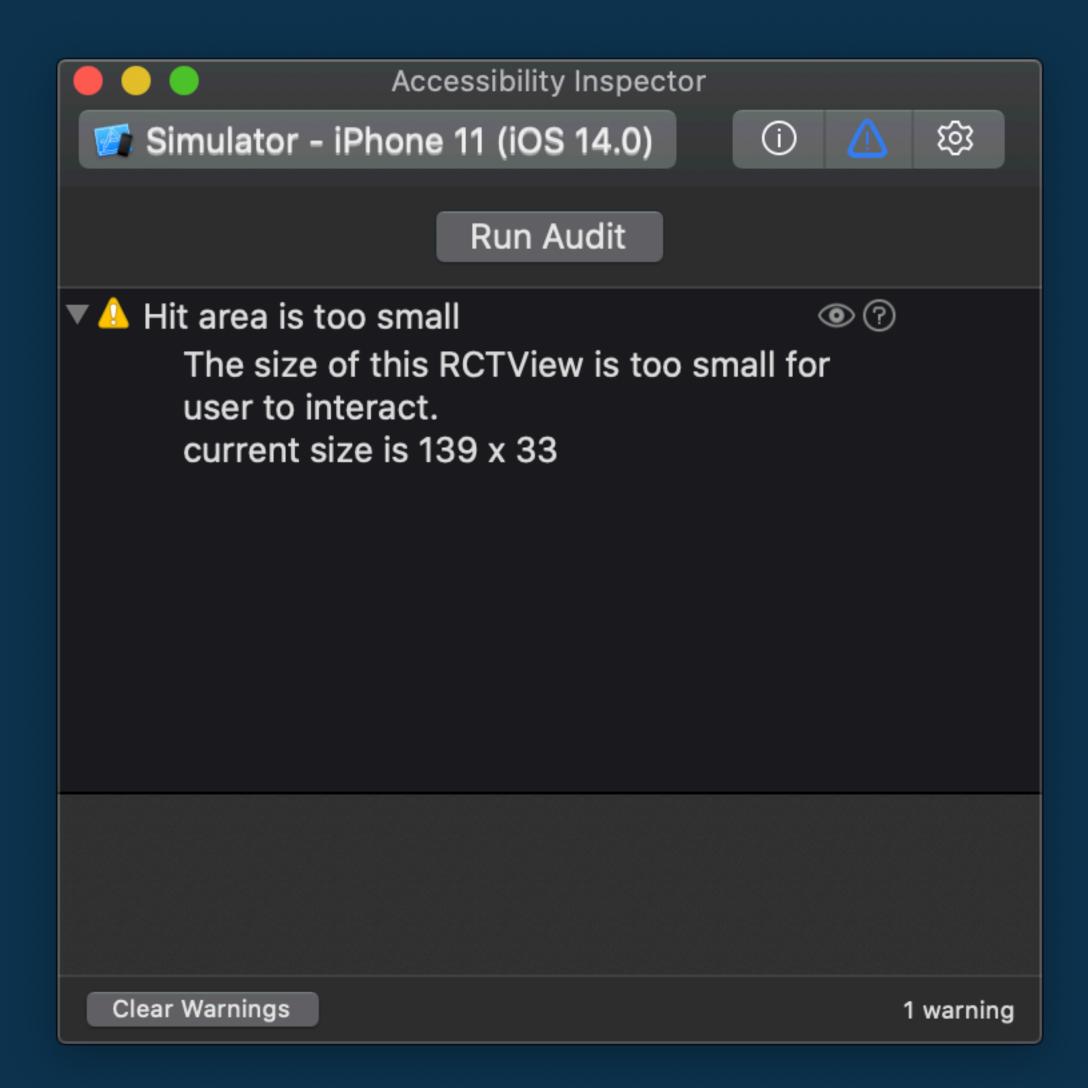
Engineering

- Build for screen reader
- Assume low computing power
- Assume slow internet
- · Double-check design and content with tooling

React Native Time

Accessibility Inspector







Accessibility Props

- accessible
- accessibilityLabel
- accessibilityHint
- accessibilityRole
- accessibilityState
- accessibilityValue
- onAccessibilityTap

- onAccessibilityEscape
- accessibilityIgnoresInvertColors (iOS only)
- accessibilityViewIsModal (iOS only)
- accessibilityElementsHidden (iOS only)
- onMagicTap (iOS only)
- · accessibilityLiveRegion (Android only)
- importantForAccessibility (Android only)



Accessibility Props

- accessible
- accessibilityLabel
- accessibilityHint
- accessibilityRole
- accessibilityState
- accessibilityValue
- onAccessibilityTap

- onAccessibilityEscape
- accessibilityIgnoresInvertColors (iOS only)
- accessibilityViewIsModal (iOS only)
- accessibilityElementsHidden (iOS only)
- onMagicTap (iOS only)
- · accessibilityLiveRegion (Android only)
- importantForAccessibility (Android only)



Accessible

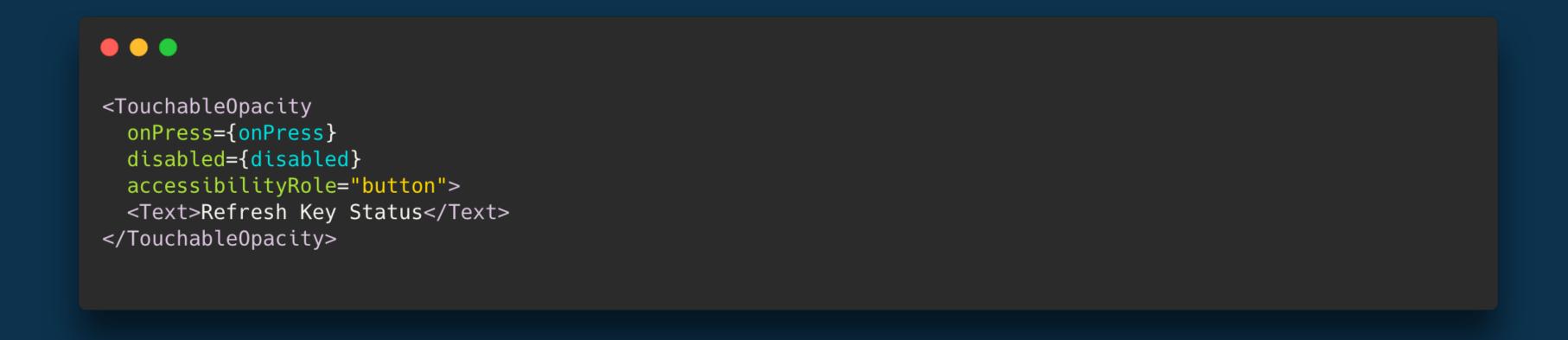
- · Groups all children into a single selectable component
- · Label is set by concatenating all text children
- · 'Touchable' and 'Pressable' core components are accessible by default

AccessibilityLabel

- Describe what the component contains / is used for
- · Should be used to rearrange component content, not as a replacement

AccessibilityRole

- Describe the role of the component (e.g. button, link, header)
- · Need to always be set manually, never set by default



AccessibilityState

• The state the component is in (e.g. loading, disabled)

```
<TouchableOpacity
  onPress={onPress}
  disabled={disabled}
  accessibilityState={{disabled}}
  accessibilityRole="button">
  <Text>Refresh Key Status</Text>
</TouchableOpacity>
```

Thank You