



Testing for Accessibility

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I'm Robin Kanatzar.

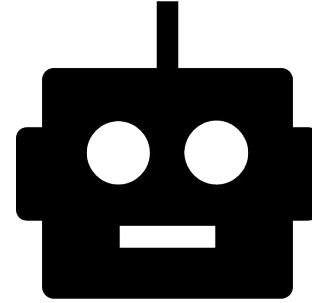
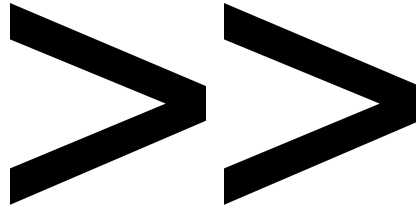
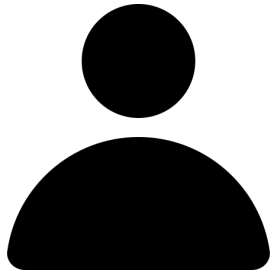
You can find me on Twitter
@RobinKanatzar

The plan



What we can and can't test

Free testing tools



Real people who use
assistive technology*

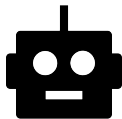
Machine

* Assistive technology = VoiceOver, Voice Control, Switch Control, and much more

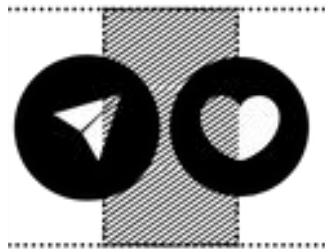
1.

**What we can and
can't test
(with a machine)**

100% Machine Testable



Color contrast



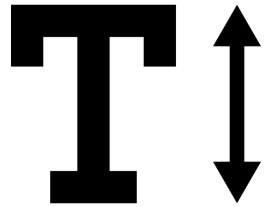
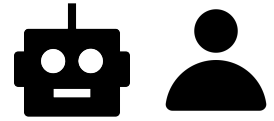
Overlapping
elements



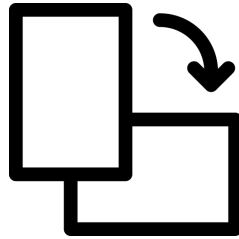
Touch target

Conflicting traits
(example: `.button` & `.link`)

Machine + Human



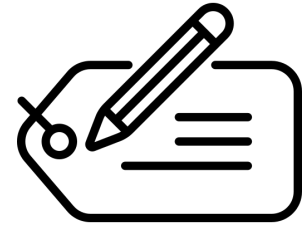
Dynamic
type



Orientation

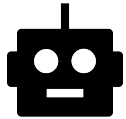


Element
ignoring

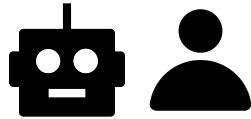


Element
labels

What we can and can't test



Color contrast
Touch targets
Overlapping
elements
Conflicting traits



Dynamic type
Orientation
Localization
Element labels
Element ignoring



Element grouping
(semantic groups)
...and more

2.

Free testing tools

XCUITest

- Uses accessibility tree
- Best practice: Use `accessibilityLabel`, not `accessibilityIdentifier`

A11yUITests

- “An extension to XCTestCase that adds tests for common accessibility issues that can be run as part of an XCUI Test suite.”

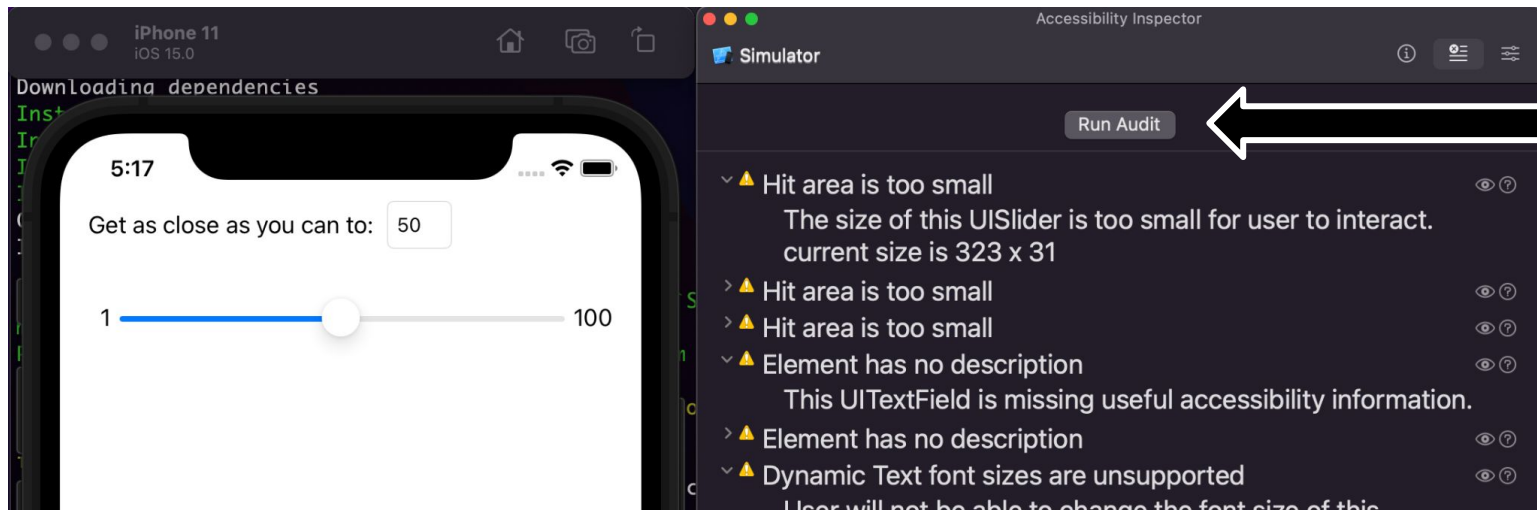


Github Repo

Rob Whitaker - mobilea11y.com - @RobRWAPP

Accessibility Inspector

- Xcode > Open Developer Tools > Accessibility Inspector



SwiftLint

- `accessibility_label_for_image`

Evinced Flow Analyzer

QA

evinced
Flow Analyzer

All Severities

All Issue Types

Clear filters

Session results



Aug 7, 2022 10:13 am
8 Issues

15 elements | 16 issues

Remove

☐ Tappable Area
● Serious

(10) ▾

☐ Special Characters
● Best Practice

(3) ▾

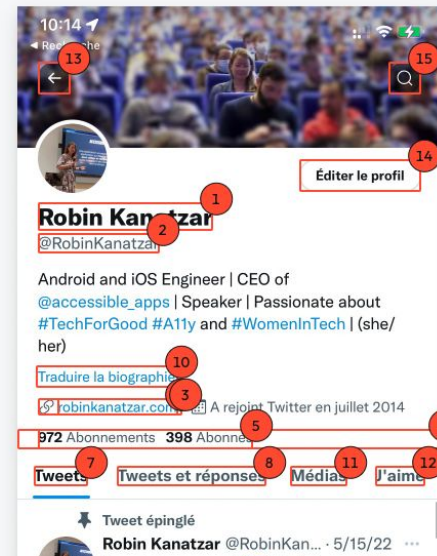
☐ Color Contrast
● Serious

(3) ▲

Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds. The minimum contrast for a small font size (less than 24px) is 4.5:1 and 3:1 when the font size is 24px or higher.

[Learn more about Color Contrast rule](#)

☐ **Element Type:** Link
Accessibility ID: ProfileHeaderWebSite
Accessibility Label: Site Web robinkanatzar.com



Tools



UI Tests (CI / CD)

- A11yUITests
- XCUITest

Development

- Accessibility Inspector
- SwiftLint

QA

- Evincend Mobile Flow Analyzer

Conclusion



What we can and can't test

Free testing tools

Merci !

Any questions?

You can find me at

- @RobinKanatzar on Twitter
- hello@robinkanatzar.com



Feedback