What's New In Axe

The Standard in Accessibility

THANKS

Axe is a community

Community contributions:

- 8 million npm downloads
- over 25 million installs
- 78 contributors – 49 companies, 4 continents
    - Facebook, eBay, Google, Microsoft
- 68 dependent npm projects
- Multiple online and enterprise products using the library

Axe milestones over last year

- Released automation support for any WCAG 2.1 S.C.s
- Shadow DOM support
- Included in Chrome Audit tab and Google Lighthouse
- Included in http://web.dev/
- Doubled the speed (thanks to Google)
- added ability to choose the axe-core version
- added ability to filter results

The community is getting stronger

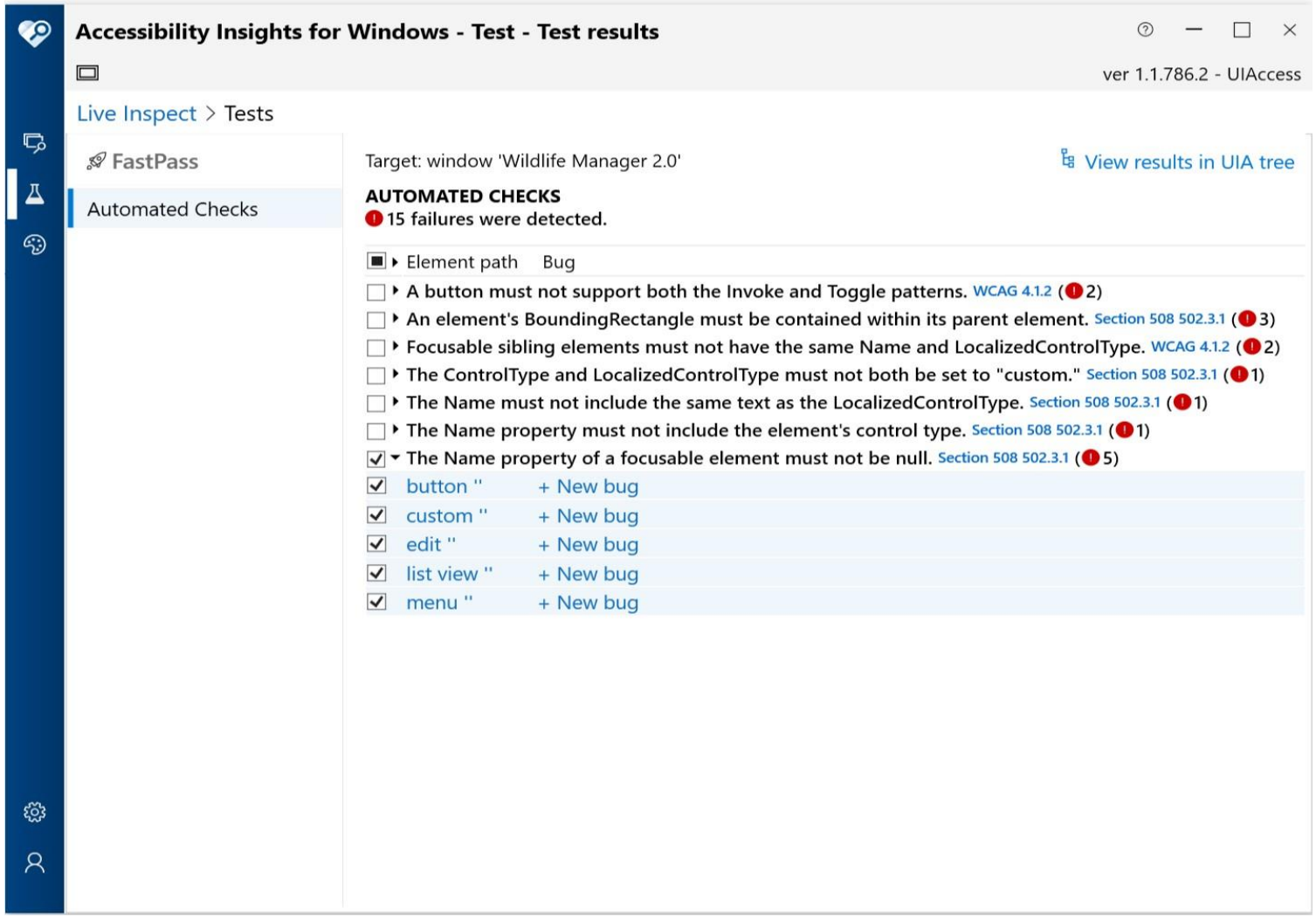
Introducing Min Kwan Park from Microsoft

Axe for Windows

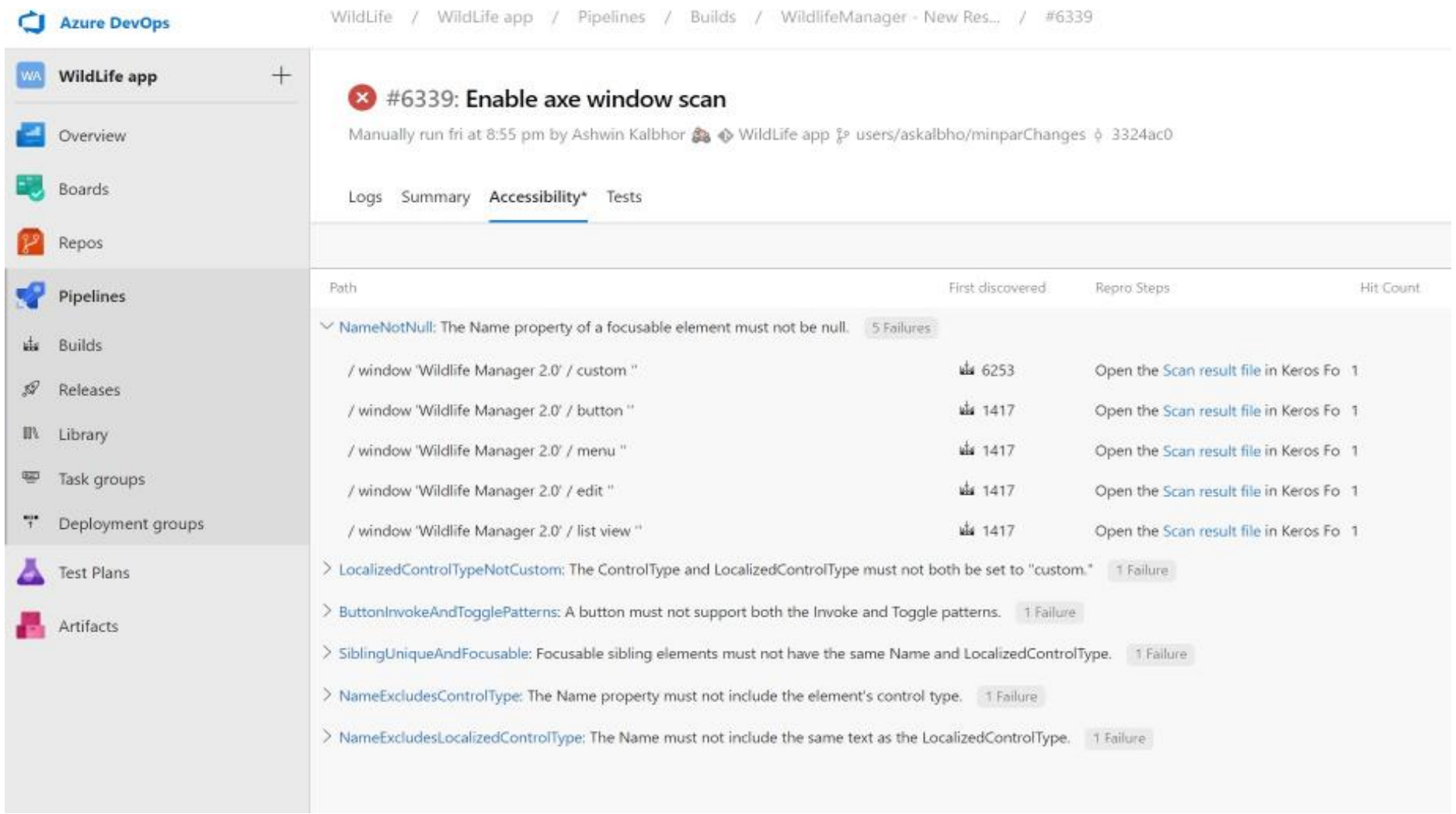
- Analyze Windows app accessibility
- Built on UIAutomation supported by many versions of Windows
- Checks based on 508 guidelines and the UIA requirements(MSDN)
  - property values
  - Patterns
  - relationships of UI elements and more
- A part of Accessibility Insights for Windows
  - will be available as a member of axe family soon

Axe for Windows Demo

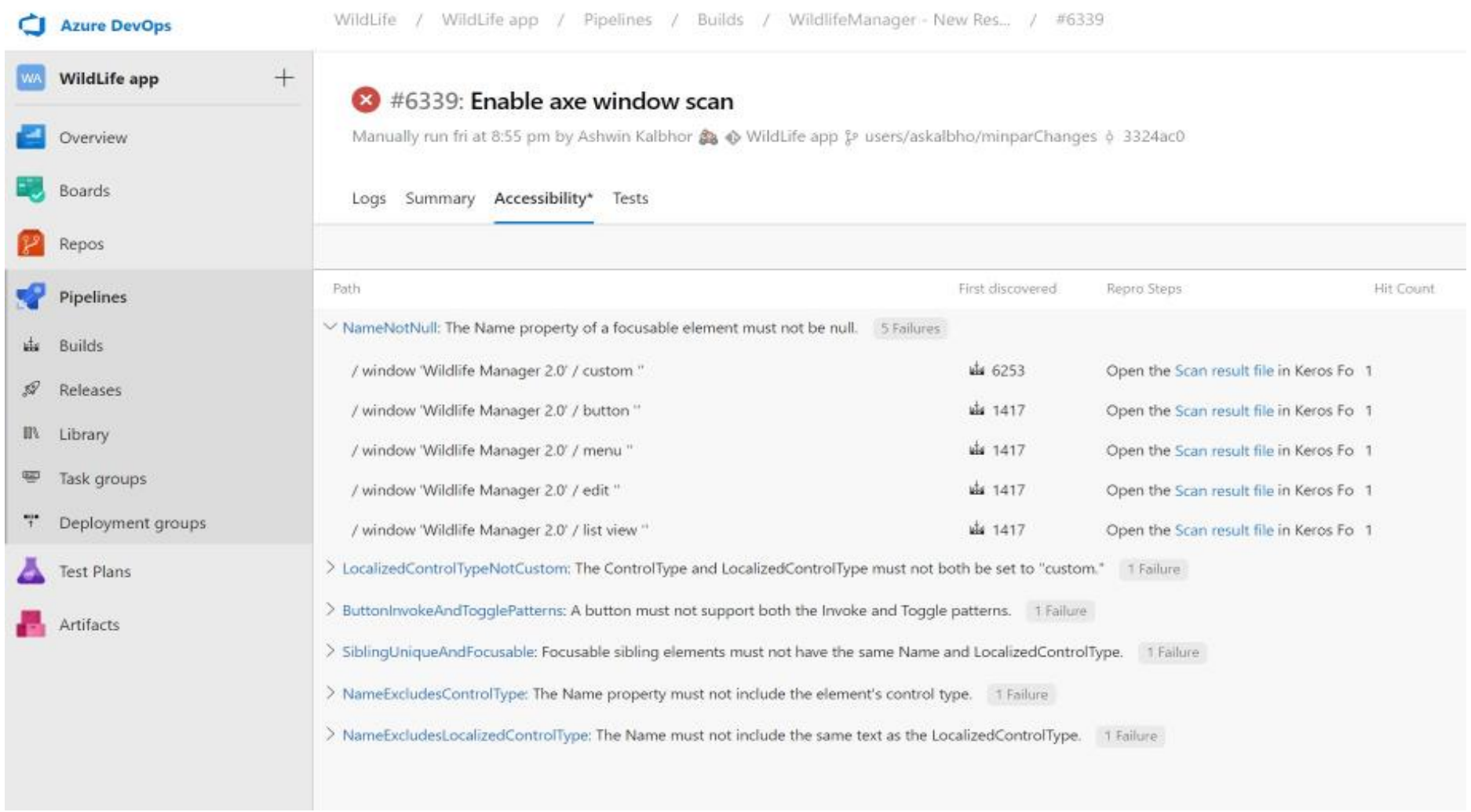
Results in Accessibility Insights for Windows



Results in CI/CD pipeline(Azure Dev Ops)



CI/CD pipeline integration



Axe is more than just Web

- **axe-core**: Web open source rules
- **axe-windows**: Windows native open source rules

Deque is investing more

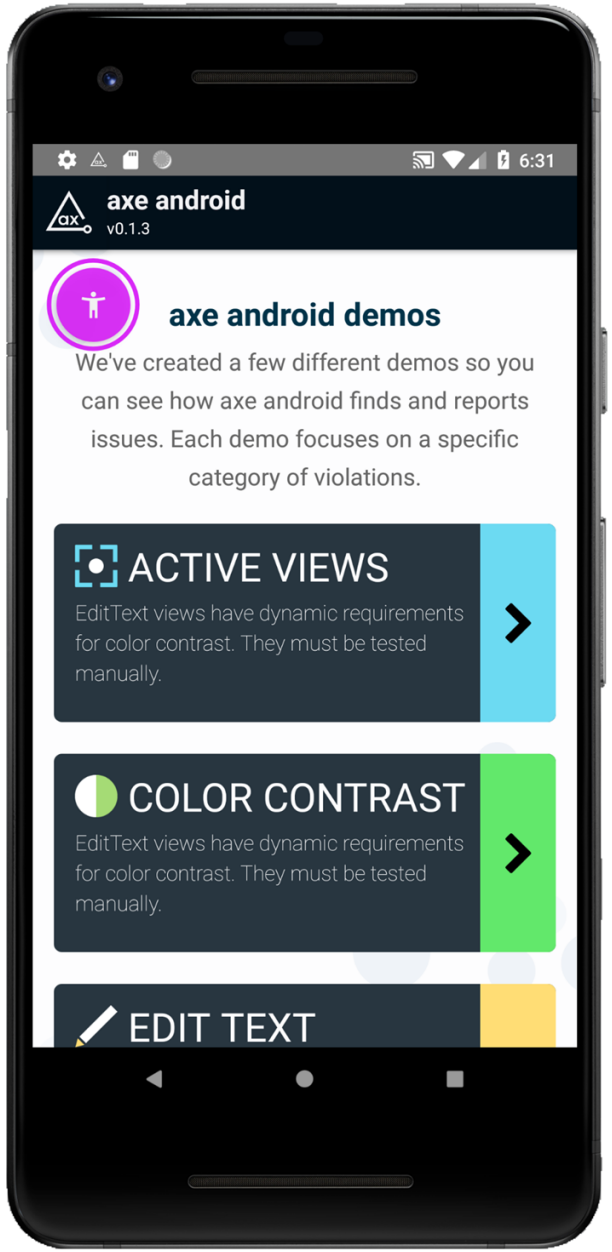
Introducing Chris McMeeking from Deque

Axe for Android

A **free** Mobile Application which...

- Analyzes Mobile apps for **WCAG** Compliance
- Supports **powerful** tools and integrations
- Is super **easy** to use. Start in 2 minutes.

Follow along with my demo.



Axe for Android Demo

Axe manifesto

Zero false positives: when a false positive is discovered we will respond within two weeks

Community makes us stronger: We don’t know what we don’t know! The Android ecosystem is complicated. Help us hunt false positives down! We will not be perfect, but our process is fast enough to move that way quickly.

Read more about this on our Open Source GitHub Readme under axe manifesto.

Stacking up axe for Android - Rules Overview

Generally Available

- Content Labels
- Touch Target Size
- Clickable Items
- Text and Image Contrast

Only in axe

- Focus Order
- Focus Management
- Info and Relationships
- 1.1 - Interruptive Announcements
- 1.1 - Focus Maintains Context

Axe for Android is the most comprehensive analysis tool for Native Android apps in the world.

Axe for iOS - Coming Summer 2019

Axe iOS will be different, but here's what we know:

- It will **not** be a Mobile App.
- It will have **similar** capabilities to Axe Android.
- It will **NOT** require being built into your code.

Stacking up axe for iOS - Rules Overview

Generally Available

- Content Labels
- Touch Target Size
- Color Contrast of Text Only
- Conflicting Traits

Only in axe

- Info and Relationships
- Color Contrast of Images
- Focus Order
- Dynamic Type
- Control Spacing

Axe for iOS is (will be) the most comprehensive analysis tool for Native iOS apps in the world.

Why axe for iOS and axe for Android

This is not a pet project, this is what we do.

The **axe** brand is backed by the leading accessibility experts in the world, and our mobile libraries are no different.

Collaborate with us! We respond quickly to a volatile ecosystem. If there are false positives in our rules it is because we have not be notified. We are working on supporting trivial ways for you to report these types of issues.

Call to Action

Star our Open Source Repositories

https://github.com/dequelabs/axe-ios

https://github.com/dequelabs/axe-android

Install the Android app

search: WCAG axe

Axe is more than just Web

- **axe-core**: Web open source rules
- **axe-windows**: Windows native open source rules
- **axe-android**: Android native open source rules
- **axe-ios**: iOS native open source rules

Introducing AXRL

```
{
  "@context": "TBD",
  "@type": "WebPageTest",
  "testSubject": "http://example.com",
  "results": [
    {
      "@type": "TestFailure",
      "impact": "Critical",
      "description": "Web pages must have a title",
      "remediation": "Add a title to the web page",
      "helpUrl": "https://dequeuniversity.com/rules/axe/3.1/document-title",
      "node": {
        "@type": "DOMNode",
        "codeSnippet": "<html>...</html>",
        "selector": "html"
      }
    },
    {
      "@type": "TestSuccess",
      "helpUrl": "https://dequeuniversity.com/rules/axe/3.1/color-contrast",
      ...
```

https://github.com/dequelabs/axrl

Introducing AXRL

- Automated and Manual
- Web issues
- Windows native issues
- iOS native issues
- Android native issues
- Expandable to support other platforms and formats

Please contribute to make it stronger

https://github.com/dequelabs/axrl

Accessibility Guidelines Working Group

Accessibility Conformance Testing Rules Format 1.0

Standardizes how rules are defined

Format is being used to standardize how specific tests are done

https://www.w3.org/TR/act-rules-format/

But we haven’t forgotten axe-core

- axe-core 3.2.0 released last week
  - 31 bug fixes
  - 14 new features
  - 3 performance improvements
  - 4 new rules

New Rule: aria-hidden-focus

Finds elements that are focusable in an aria-hidden=”true” tree

These announce as “blank” to screen reader users

New Rule: form-field-multiple-label

Used to be part of the label rule

Allows easier diagnosis of the problem

New Rule: label-content-name-mismatch

Compares the visible text label to the accessible name

New Rule: landmark-complementary-is-top-level

Ensures that complementary landmarks are at the top level (best practice)

Summary of upcoming milestones

Windows open source

Android free

Android open source

iOS free

iOS open source

interchange format

Questions

Deque Slide Template Begins

Make this text bigger

Chapter slide 1

Make this text bigger

Example title that extends to one line below the first line

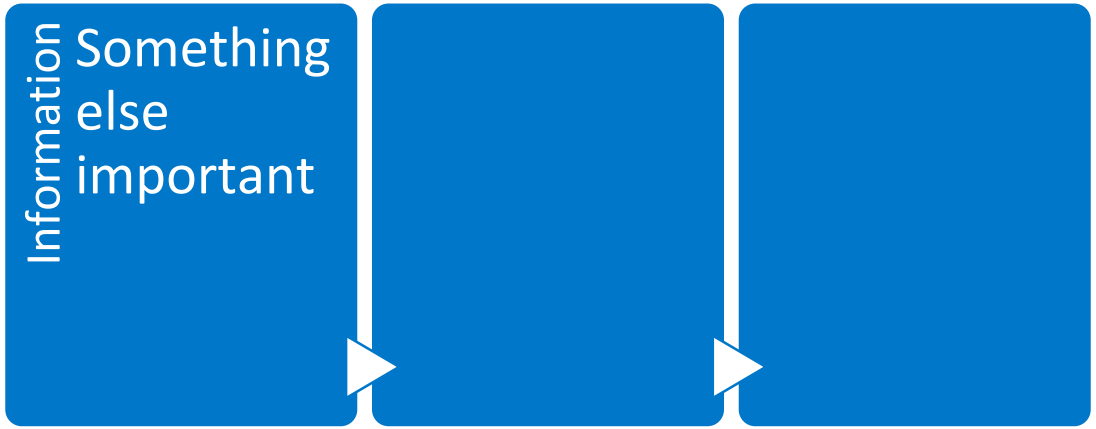
- Example text
- More samples

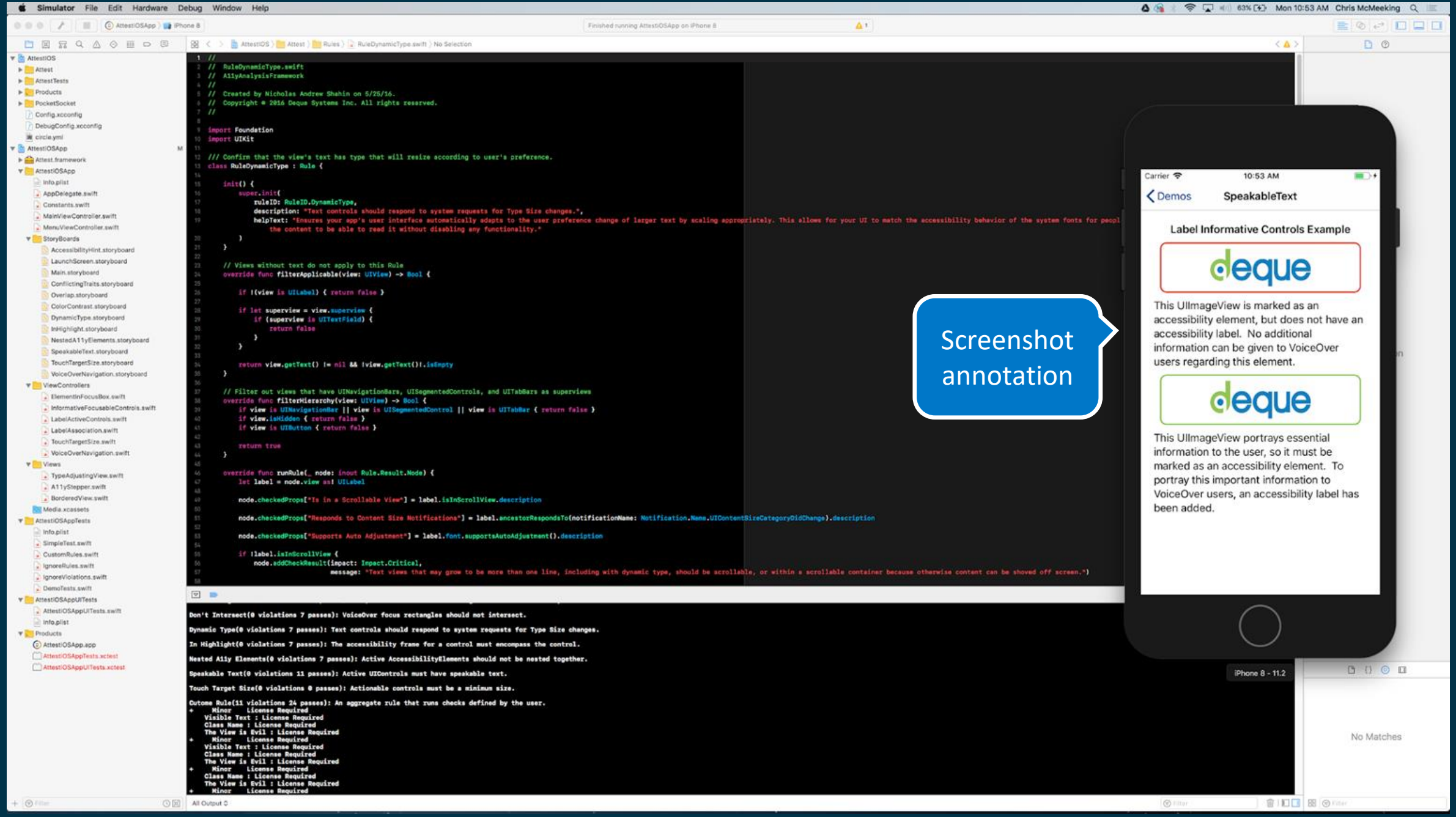
Example title

- Example text
- More samples

Example title

- Example text with SmartArt in branded colors




Screenshot annotation
Carrier
10:53 AM
Demos
SpeakableText
Label Informative Controls Example
This UIImageView is marked as an accessibility element, but does not have an accessibility label. No additional information can be given to VoiceOver users regarding this element.
This UIImageView portrays essential information to the user, so it must be marked as an accessibility element. To portray this important information to VoiceOver users, an accessibility label has been added.
iPhone 8 - 11.2
No Matches

deque

Example text

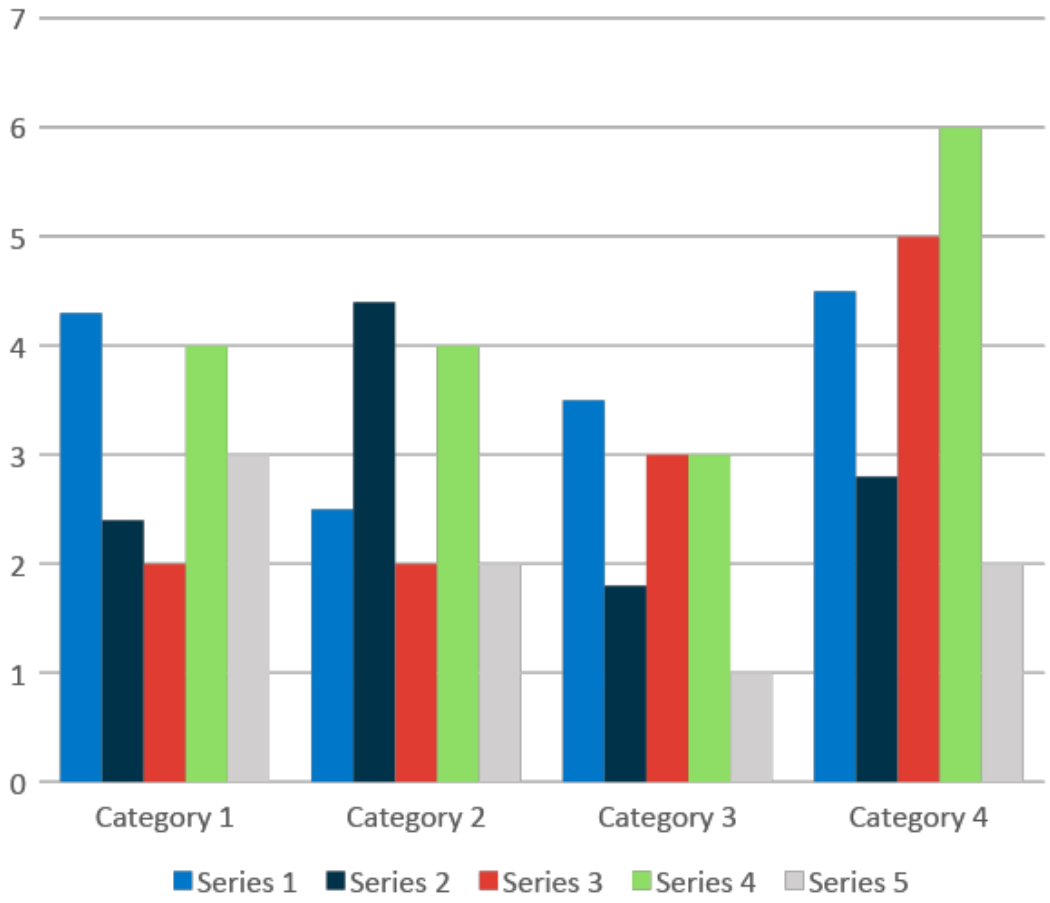
Header				
Cell 1				

- Example text next to a table in branded colors

Chapter slide 2

This slide includes a graph

- And some text



Connect with us

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