

Accessibility Debugging in Xcode 8

What is Accessibility?

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VoiceOver

Text-To-Speech

Dynamic Type

Guided Access

Magnifier

Switch Control

Captioning

Increase Contrast

Reading Support

Zoom

AssistiveTouch

Color Filters

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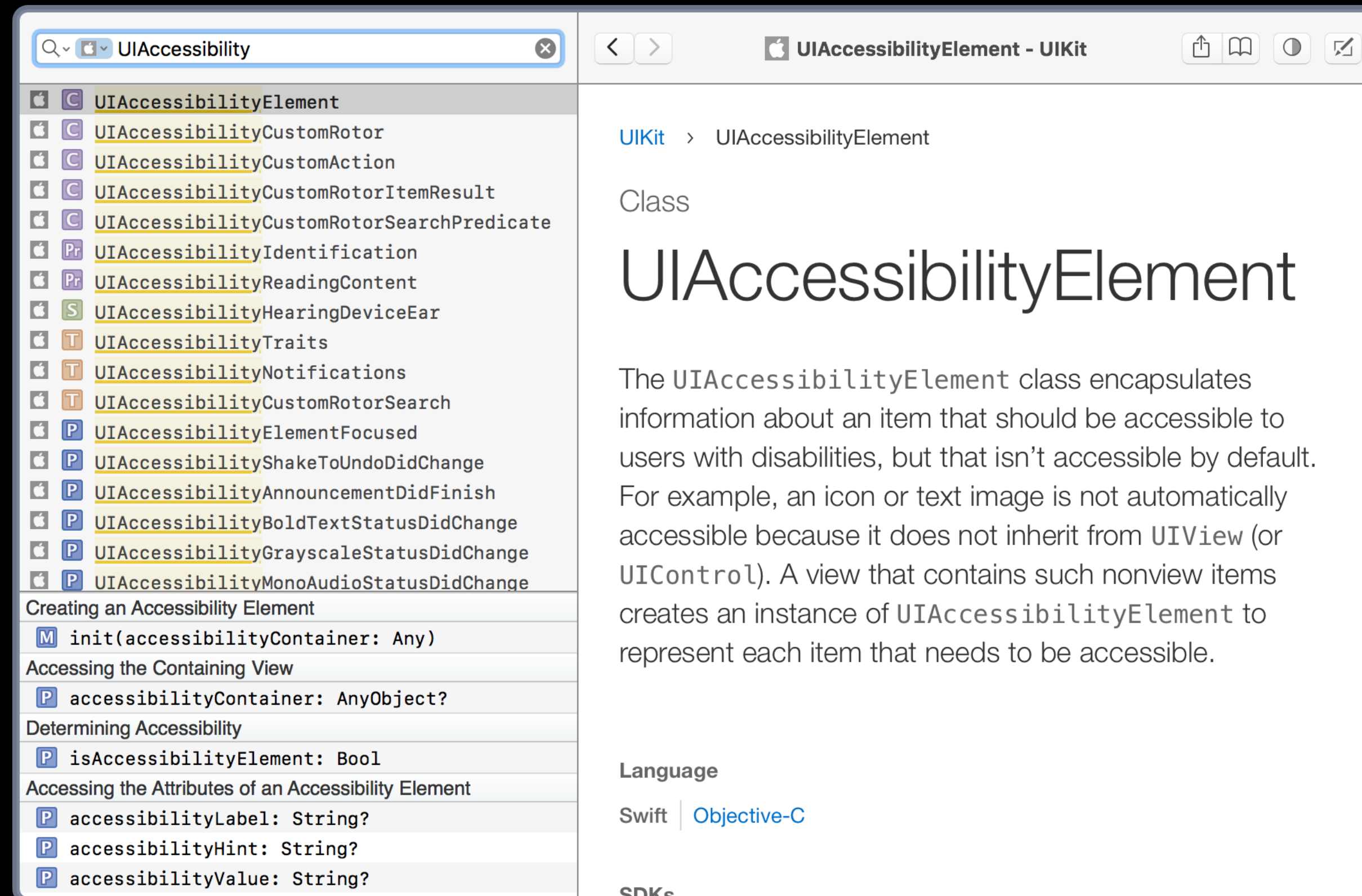
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What is Accessibility?



The screenshot shows the Xcode documentation for the `UIAccessibilityElement` class in the UIKit framework. The left sidebar lists various accessibility-related classes and methods, with `UIAccessibilityElement` selected. The main content area displays the class name, a description, and navigation options for different programming languages.

UIAccessibilityElement - UIKit

UIKit > UIAccessibilityElement

Class

UIAccessibilityElement

The `UIAccessibilityElement` class encapsulates information about an item that should be accessible to users with disabilities, but that isn't accessible by default. For example, an icon or text image is not automatically accessible because it does not inherit from `UIView` (or `UIControl`). A view that contains such nonview items creates an instance of `UIAccessibilityElement` to represent each item that needs to be accessible.

Language

Swift | [Objective-C](#)

SDKs

Creating an Accessibility Element

- `init(accessibilityContainer: Any)`

Accessing the Containing View

- `accessibilityContainer: AnyObject?`

Determining Accessibility

- `isAccessibilityElement: Bool`

Accessing the Attributes of an Accessibility Element

- `accessibilityLabel: String?`
- `accessibilityHint: String?`
- `accessibilityValue: String?`

Why Do Accessibility?

"[...] there's nothing on the iPhone or the iPad that you can do, that I can't do."

— Stevie Wonder

Why Do Accessibility?

“The accessibility support is as much a part of your user interface as the artwork is.”

— Apple

Testing Accessibility

Used to be painful

**Many trips between your app and
Settings**

Slow test/fix/verify cycle

Accessibility Inspector

Simulator - iOS 10.0

Quicklook

John Appleseed, 11:48 PM, Hello,... < >

Basic

Label John Appleseed, 11:48 P...

Value <empty string>

Traits Static Text

Actions Hide

Activate

Scroll up

Scroll down

Element Hide

Class <nil>

Address <nil>

Controller <nil>

Hierarchy Hide

John Appleseed, 11:48 PM, Hello, world! Static Text (Static T...

⌘Space toggles inspection pointer

iPhone SE - iOS 10.0 (14A345)

Carrier 11:49 PM

Messages

Search

Kate Bell 11:48 PM >

Hello, world!

John Appleseed 11:48 PM >

Hello, world!

Demo

Links

[**Stevie Wonder Quote**](#)

[**Auditing Your Apps For Accessibility \(WWDC 2016\)**](#)

[**What's New in Accessibility \(WWDC 2016\)**](#)

[**Dynamic Type Sizes**](#)