Accessibility on Apple Watch

Session 204

Qasid Sadiq
iOS Accessibility
Accessibility on Apple Watch
Accessibility on Apple Watch

WatchKit Accessibility API
Accessibility on Apple Watch

WatchKit Accessibility API

WatchKit Demo
Accessibility on Apple Watch

WatchKit Accessibility API

WatchKit Demo

Tips and Tricks
Apple Watch Accessibility Features
Zoom
X-Large Watch Face
Text Size

Apps that support Dynamic Type will adjust to your preferred reading size.
Text Size

Apps that support Dynamic Type will adjust to your preferred reading size.
Grayscale
Reduce Transparency

What can I help you with?
Reduce Motion
Reduce Motion
Hearing Accommodations
Demo
Apple Watch accessibility
App Accessibility
WatchKit Accessibility
WKInterfaceObject
extension WKInterfaceObject {
    func setIsAccessibilityElement(isAccessibilityElement: Bool)
    func setAccessibilityLabel(accessibilityLabel: String?)
}
Existence
Existence

messageCellGroup.setIsAccessibilityElement(true)
Label

"Mail"
iconView.setAccessibilityLabel("Mail")
extension WKInterfaceObject {
    func setIsAccessibilityElement(isAccessibilityElement: Bool)
    func setAccessibilityLabel(accessibilityLabel: String?)
}
extension WKInterfaceObject {
    func setIsAccessibilityElement(isAccessibilityElement: Bool)
    func setAccessibilityLabel(accessibilityLabel: String?)
    func setAccessibilityHint(accessibilityHint: String?)
    func setAccessibilityValue(accessibilityValue: String?)
    func setAccessibilityTraits(accessibilityTraits: UIAccessibilityTraits)
}
Traits

"Button"
messageCellGroup.setAccessibilityTraits(UIAccessibilityAccessibilityTraitButton)

"Button"
Hint

“Double tap to change tracking options”
var hint = "Double tap to change tracking options"
trackingButton.setAccessibilityHint(hint)
Value

“Fifteen minutes”
Value

```javascript
minutePicker.setAccessibilityValue(minutesString)
```

“Fifteen minutes”
extension WKInterfaceObject {
    func setIsAccessibilityElement(isAccessibilityElement: Bool)
    func setAccessibilityLabel(accessibilityLabel: String?)
    func setAccessibilityHint(accessibilityHint: String?)
    func setAccessibilityValue(accessibilityValue: String?)
    func setAccessibilityTraits(accessibilityTraits: UIAccessibilityTraits)
}
extension WKInterfaceObject {
    func setIsAccessibilityElement(isAccessibilityElement: Bool)
    func setAccessibilityLabel(accessibilityLabel: String?)
    func setAccessibilityHint(accessibilityHint: String?)
    func setAccessibilityValue(accessibilityValue: String?)
    func setAccessibilityTraits(accessibilityTraits: UIAccessibilityTraits)
    func setAccessibilityImageRegions(accessibilityImageRegions: [WKAccessibilityImageRegion])
}
Image Regions
72°

12 AM, Partly Cloudy

11 PM, Clear

1 AM, Partly Cloudy

10 PM, Clear

9 PM, Clear

8 PM, Sunny

7 PM, Sunny

6 PM, Sunny

5 PM, Sunny

4 PM, Partly Cloudy

3 PM, Partly Cloudy

2 PM, Partly Cloudy

1 PM, Partly Cloudy

12 PM, Partly Cloudy

11 AM, Partly Cloudy

10 AM, Partly Cloudy

9 AM, Partly Cloudy

8 AM, Partly Cloudy
class WKAccessibilityImageRegion : NSObject {
    var frame: CGRect
    var label: String
}

Image Regions
hourlyDial.setAccessibilityImageRegions(imageRegions)
Is VoiceOver Running
Demo
Complications

“Sunset, 4:49PM”
Complications

CLKImageProvider
CLKSimpleTextProvider

“Sunset, 4:49PM”
Complications

```swift
var accessibilityLabel: String
```

"Sunset, 4:49PM"
Tips and Tricks
Tips and Tricks

Make images accessible
Tips and Tricks

Make images accessible
Group accessibility elements
Tips and Tricks

Make images accessible
Group accessibility elements
Avoid tiny interface items
Tips and Tricks

Make images accessible
Group accessibility elements
Avoid tiny interface items
Try accessibility
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Summary

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Apple Watch is accessible
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Apple Watch is accessible
Accessible apps
It’s easy
Summary

Apple Watch is accessible
Accessible apps
It’s easy
Empower all users
More Information

Documentation and Videos
Apple Watch Programming Guide

Technical Support
Apple Developer Forums
http://developer.apple.com/forums

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