Session 204

Qasid Sadiq iOS Accessibility

Accessibility







WatchKit Accessibility API

WatchKit Accessibility API

WatchKit Demo

WatchKit Accessibility API

WatchKit Demo

Tips and Tricks

Apple Watch Accessibility Features

VoiceOver



Zoom



X-Large Watch Face



Text Size



Text Size



Grayscale



Reduce Transparency



Reduce Transparency



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



Label

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



Traits

messageCellGroup.setAccessibilityTraits
(UIAccessibilityTraitButton)



Hint



"Double tap to change tracking options"

Hint

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

"Double tap to change tracking options"



Value



Value

minutePicker setAccessibilityValue(minutesString)



```
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



Image Regions





















"4 PM, Partly Cloudy"



"7 PM, Sunny"





Image Regions

```
class WKAccessibilityImageRegion : NSObject {
   var frame: CGRect
   var label: String
}
```



Image Regions

hourlyDial.setAccessibilityImageRegions(imageRegions)



Is VoiceOver Running



Is VoiceOver Running



WKAccessibilityIsVoiceOverRunning()



Demo

Complications



Complications

NEW

CLKImageProvider
CLKSimpleTextProvider



Complications



var accessibilityLabel: String



Make images accessible

Make images accessible

Group accessibility elements

Make images accessible

Group accessibility elements

Avoid tiny interface items

Make images accessible

Group accessibility elements

Avoid tiny interface items

Try accessibility

Apple Watch is accessible

Apple Watch is accessible

Accessible apps

Apple Watch is accessible

Accessible apps

It's easy

Apple Watch is accessible

Accessible apps

It's easy

Empower all users

More Information

Documentation and Videos

Apple Watch Programming Guide

http://developer.apple.com/watchkit/

Technical Support

Apple Developer Forums

http://developer.apple.com/forums

General Inquiries

Paul Marcos,

App Frameworks Evangelist

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Related Sessions

iOS Accessibility

Pacific Heights

Tuesday 9:00AM

Labs

Accessibility and Speech Lab

Frameworks Lab D

Tuesday 2:30PM

ÓWWDC15