UIAccessibilityContainer Protocol Reference

User Experience

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UIAccessibilityContainer Protocol Reference

(informal protocol)

Adopted by	NSObject
Framework	/System/Library/Frameworks/UIKit.framework
Companion guide	Accessibility Programming Guide for iOS
Declared in	UIAccessibility.h

Overview

The `UIAccessibilityContainer` informal protocol provides a way for `UIView` subclasses to make selected components accessible as separate elements. For example, a view might contain icons or drawn text that, to end users, appear and function as separate items. But because these components are not implemented as instances of `UIView`, they are not automatically accessible to users with disabilities. Therefore, such a container view should implement the `UIAccessibilityContainer` methods to supply accessibility information about these components to assistive applications such as VoiceOver.

A view that implements the `UIAccessibilityContainer` informal protocol uses the `UIAccessibilityElement` method `initWithAccessibilityContainer:` to create an accessibility element to represent each non-view component that needs to be accessible to users with disabilities. Note, however, that the container view itself is not an accessibility element because users interact with the contents, not with the container. This means that a container view that implements the `UIAccessibilityContainer` methods must set to `NO` the `isAccessibilityElement` property of the `UIAccessibility` informal protocol.

The order of accessibility elements within the container view should be the same as the order in which the represented elements are presented to the user, from top-left to bottom-right.

Tasks

Providing Information About Accessibility Elements

- `accessibilityElementCount` (page 6)
  Returns the number of accessibility elements in the container.
- `accessibilityElementAtIndex:` (page 6)
  Returns the accessibility element at the specified index.
- `indexOfAccessibilityElement:` (page 6)
  Returns the index of the specified accessibility element.

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Instance Methods

accessibilityElementAtIndex:

Returns the accessibility element at the specified index.

```
- (id)accessibilityElementAtIndex:(NSInteger)index
```

Parameters

index

The index of the accessibility element.

Return Value

The accessibility element at the specified index, or `nil` if none exists.

Availability

Available in iOS 3.0 and later.

See Also

`- indexOfAccessibilityElement:` (page 6)

Declared In

`UIAccessibility.h`

accessibilityElementCount

Returns the number of accessibility elements in the container.

```
- (NSInteger)accessibilityElementCount
```

Return Value

The number of accessibility elements in the container. By default, this method returns `0`.

Availability

Available in iOS 3.0 and later.

Declared In

`UIAccessibility.h`

indexOfAccessibilityElement:

Returns the index of the specified accessibility element.

```
- (NSInteger)indexOfAccessibilityElement:(id)element
```

Parameters

element

The accessibility element.

Return Value

The index of the specified accessibility element, or `NSNotFound` if the element does not exist.

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Availability
Available in iOS 3.0 and later.

See Also
`- accessibilityElementAtIndex:` (page 6)

Declared In
`UIAccessibility.h`

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Document Revision History

This table describes the changes to *UIAccessibilityContainer Protocol Reference*.

Date	Notes
2010-05-18	Made minor corrections.
2009-07-14	Made minor corrections and reformatted to conform to the informal protocol appearance.
2009-05-26	New document that describes the interface for providing accessibility information about accessible user interface elements contained in a view.

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Document Revision History

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