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## Protocol

# XCUIElementSnapshot

A set of attributes to express a snapshot of an element's attributes and descendant user interface hierarchy.

iOS | iPadOS | Mac Catalyst | macOS | tvOS | visionOS | watchOS | Xcode 16.3+

```
@MainActor
protocol XCUIElementSnapshot : XCUIElementAttributes
```

## Topics

### Inspecting attributes

```
var children: [any XCUIElementSnapshot]
```

An array of descendant user interface element snapshots.

Required

```
var dictionaryRepresentation: [XCUIElement.AttributeName : Any]
```

A hierarchical dictionary representation of an element's attributes, and all of an element's user interface descendants.

Required

## Relationships

### Inherits From

## See Also

### UI elements

`class XCUIElement`

A UI element in an application.

`protocol XCUIElementAttributes`

Attributes exposed by UI elements.

`protocol XCUIElementSnapshotProviding`

A method to capture a snapshot of an element's attributes and descendant user interface hierarchy.

`class XCUICoordinate`

A location on screen relative to a UI element.