

iOS Selector Strategies

Strategy	Description
Accessibility ID	Read a unique identifier for a UI element. For XCUITest it is the element's accessibility-id attribute. For Android it is the element's content-desc attribute.
Class name	For IOS it is the full name of the XCUI element and begins with XCUIElementType. For Android it is the full name of the UIAutomator2 class (e.g.: android.widget.TextView)
ID	Native element identifier. resource-id for android; name for iOS.
Name	Name of element
XPath	Search the app XML source using xpath (not recommended, has performance issues)
Image	Locate an element by matching it with a base 64 encoded image file
IOS UlAutomation	When automating an iOS application, Apple's Instruments framework can be used to find elements

- → Predicate String (iOS)
- → Class Chain (iOS)

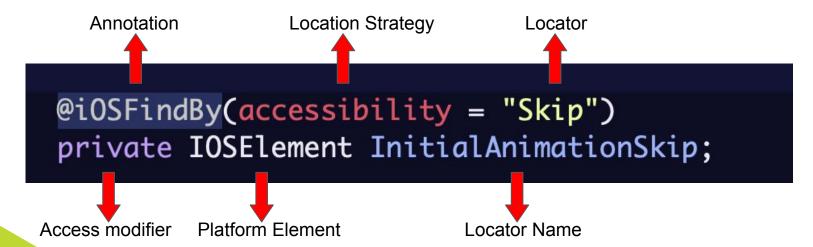
Appium Documentation



Annotations



@iOSFindBy - This Annotation supports: id, xpaths, accessibility, ClassName, uiAutomator



@iOSXCUITFindBy - This Annotation supports: iOSClassChain, iOSNsPredicate, xpaths, accessibility, ClassName, id

@iOSXCUITFindBy(iOSNsPredicate = "type = 'XCUIElementTypeButton' AND name = 'icon home discover ship'")
@iOSXCUITFindBy(accessibility = "icon home discover ship")
private IOSElement homeDiscoverIcon;

Locator

Access modifier Platform Element

Annotation

Location Strategy

Locator Name

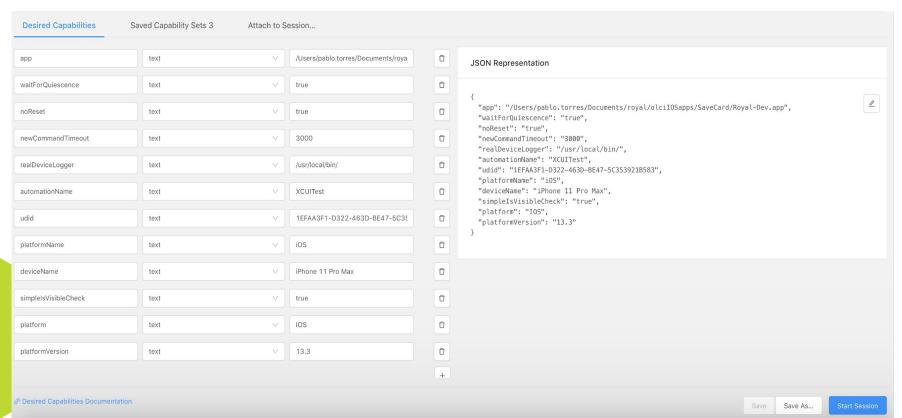
@HowToUseLocators(iOSXCUITAutomation = LocatorGroupStrategy.ALL_POSSIBLE, androidAutomation = LocatorGroupStrategy.ALL_POSSIBLE)

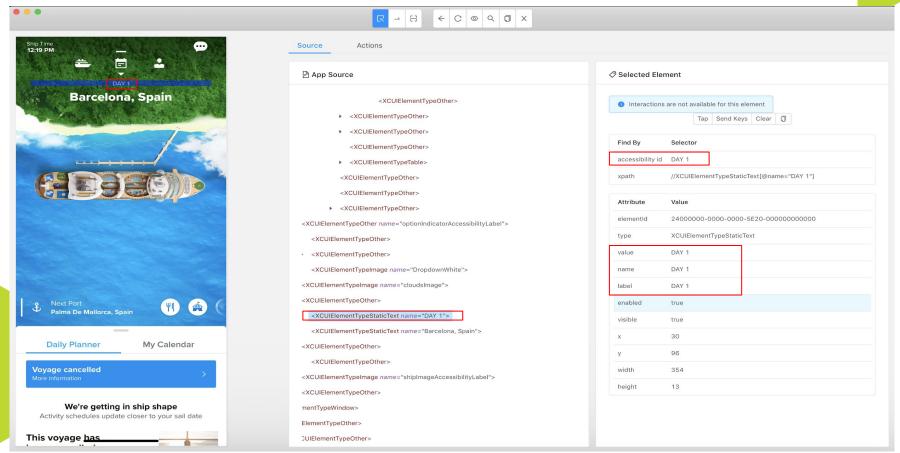
Appium Github Documentation





Appium Capabilities





Type Of XCUITest Elements

- XCUIElementTypeImage
- XCUIElementTypeStaticText
- XCUIElementTypeButton
- XCUIElementTypeCell
- XCUIElementTypeCollectionView
- XCUIElementTypeTable
- XCUIElementTypeOther

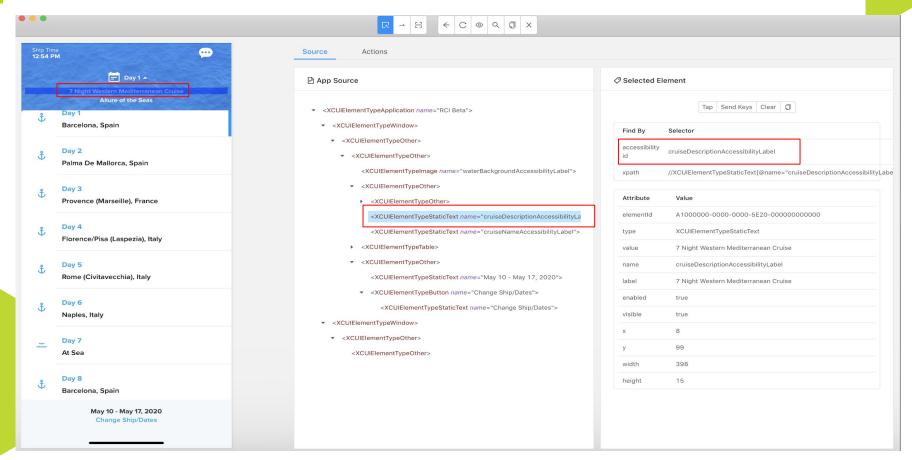
driver.findElement(By.xpath("//XCUIElementTypeStaticText[@name='Day 1']"))



Accessibility ID



Accessibility ID



Structure Of Accesibility ID

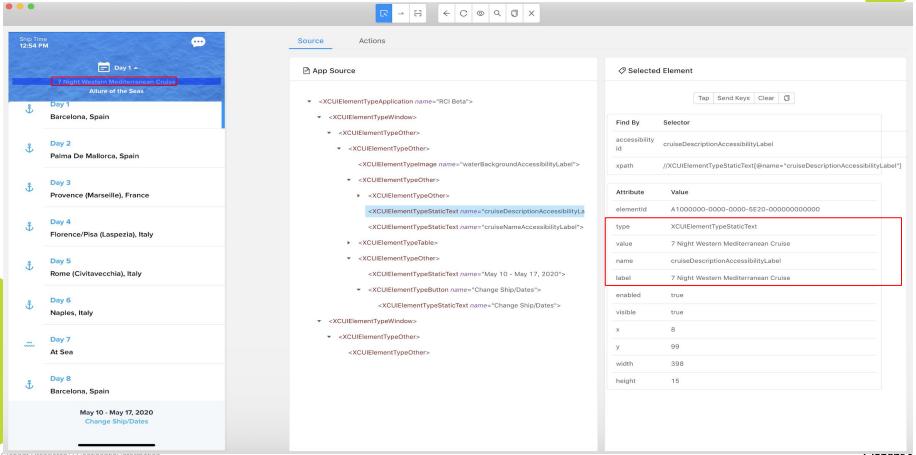
@iosxcultrindBy(accessibility = "cruiseDescriptionAccessibilityLabel")
private ioselement cruiseDescription;



Predicates and Class Chain



Predicate and Class Chain



Structure of Predicate

```
@iosxcultrindBy(iosNsPredicate =
"type == 'XCUIElementTypeStaticText' AND name CONTAINS 'cruiseDescriptionAccessibilityLabel'")
private iosElement cruiseDescription;
```

One or more elements

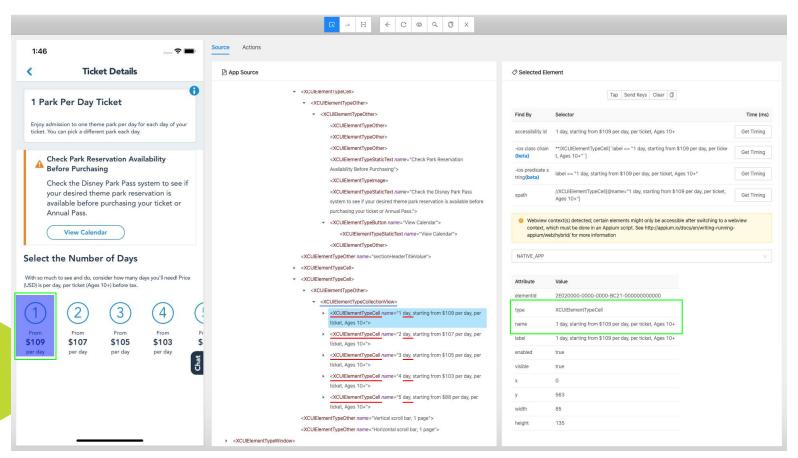
```
"type == 'XCUIElementTypeOther' AND (name CONTAINS 'AM' OR name CONTAINS 'PM')"
```

Visible attribute for many elements

"type == 'XCUIElementTypeStaticText' AND label CONTAINS[cd] 'tOdAY' AND visible == 1'

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Predicate and Class Chain



Structure of Class Chain

```
@iOSXCUITFindBy(iOSNsPredicate =
"**/XCUIElementTypeCollectionView/XCUIElementTypeCell[`name CONTAINS[cd] 'day, '`][1]")
private iOSElement cruiseDescription;

@iOSXCUITFindBy(iOSNsPredicate =
```

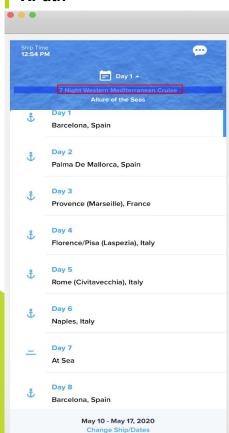
```
@iosxcultrindBy(iosnsPredicate =
"type == 'XCUIElementTypeApplication' AND name == 'SmileDirectClub'")
private iosElement screenElement;
```

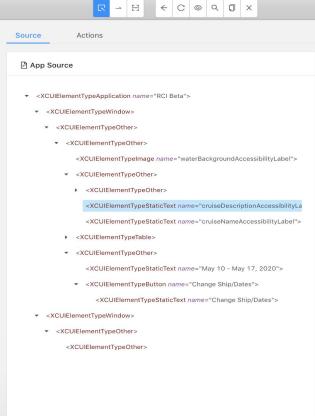
Class Chain Queries
Construction Rules

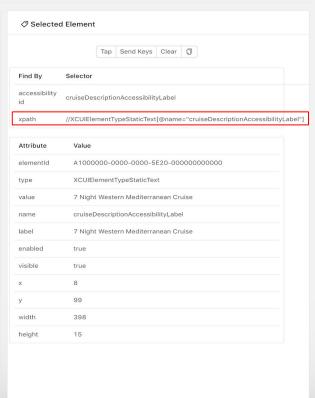


XPath









Structure of XPath

@iOSXCUITFindBy(xpath = "//XCUIElementTypeStaticText[@name='cruiseDescriptionAccessibilityLabel']")
private iOSElement cruiseDescription;

Contains:

"//XCUIElementTypeStaticText[contains(@name,'Something')]"

Change to parent node:

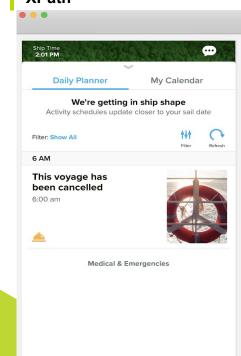
"//XCUIElementTypeImage[@name='Something']/.."

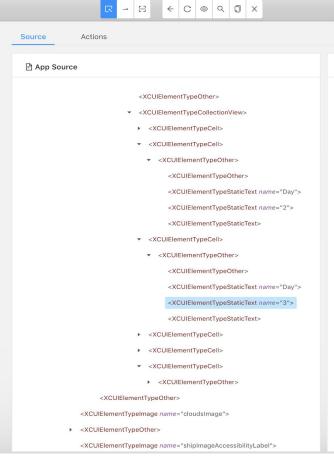
Change to child node:

"//XCUIElementTypeImage[@name='Something']/'

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XPath







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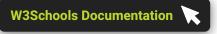
5

XPath Axes

```
@iOSXCUITFindBy(xpath =
"//XCUIElementTypeStaticText[@name='Day']/preceding-sibling::XCUIElementTypeOther[@visible='true']/follow
ing-sibling::XCUIElementTypeStaticText[2]")
private iOSElement cruiseDescription;
```

Look at my previous brother node preceding-sibling::

Look at my next brother node following-sibling::



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THANKS FOR YOUR ATTENTION!

