



Appium Android Capabilities



#### **Appium Android Capabilities**

```
{
  "platformName": "Android",
  "platformVersion": "8.1",
  "deviceName": "emulator-5554",
  "deviceOrientation": "portrait",
  "automationName": "UiAutomator2",
  "appPackage": "com.disney.wdpro.dlr",
  "appActivity": "com.disney.wdpro.park.activities.LoaderActivity",
  "app": "/Users/user.name/Desktop/apps/Disneyland.apk"
}
```

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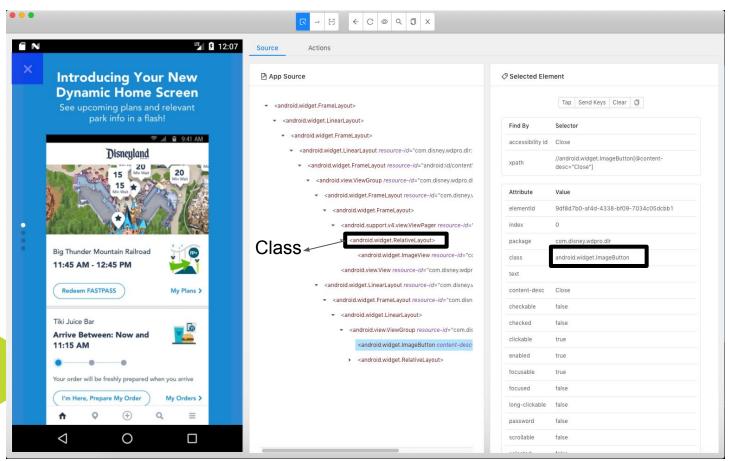
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**Appium Interface** 

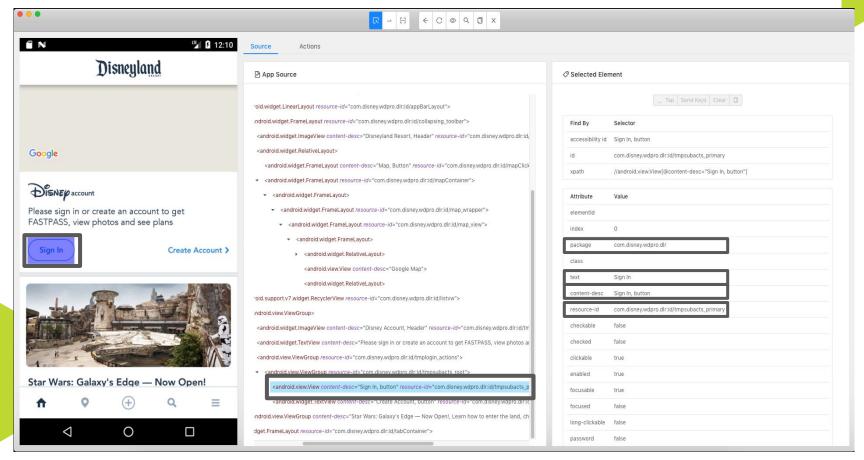


#### **Locator Strategies**



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**UiSelector()** 



# **Android Selector Strategies**

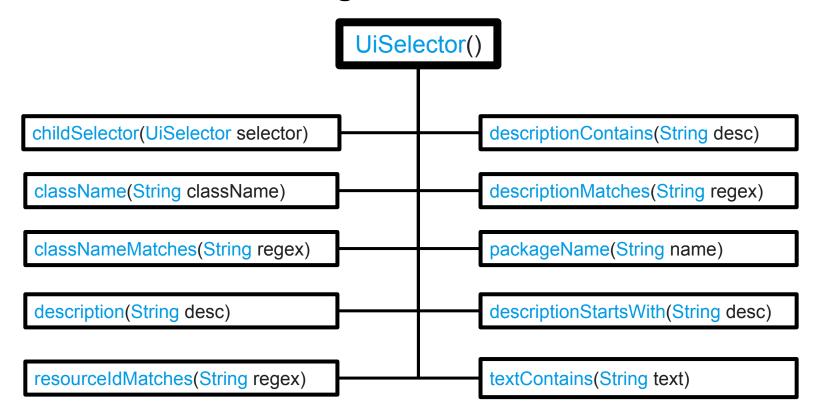
#### **Android**

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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)
	<ul> <li>@AndroidFindBy(xpath = "//android.widget.TextView[contains (@text, 'chat')]///android.widget.LinearLayout/android.widget.Switch")</li> </ul>
Android UiAutomator (UiAutomator2 only)	Use the <u>UI Automator</u> API, in particular the <u>UiSelector</u> class to locate elements. In Appium you send the Java code, as a string, to the server, which executes it in the application's environment, returning the element or elements.



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#### **UiSelector Location Strategies**



## **Using Resourceld Attribute**

```
new UiSelector().resourceId("com.espn.score_center:id/btn_signup")
```

```
new UiSelector().resourceIdMatches(".*btn_signup")
```

### **Using Description Attribute**

```
new UiSelector().descriptionContains("App Logo")
```

```
new UiSelector().descriptionMatches(".*Logo")
```

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### **Using Text**

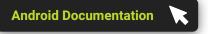
```
new UiSelector().textContains("LATER")
```

new UiSelector().text("SIGN UP LATER")

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### **Using ClassName**

new UiSelector().className("android.widget.ImageView")



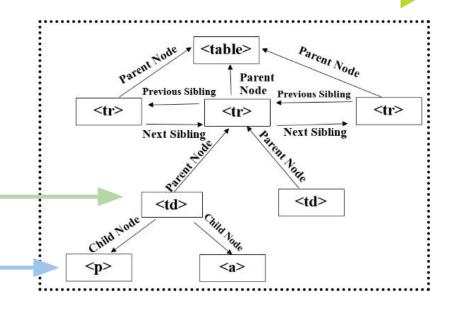
# **Chaining Attributes**

```
new UiSelector()
.text("SIGN UP")
.resourceIdMatches(".*btn_signup")
```

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## **Using ChildSelector**

```
new UiSelector()
  .className("android.widget.GridView")
  .childSelector(
    new UiSelector()
    .resourceIdMatches(".*animation_view") -
)
```



Android Documentation



UiScrollable()



#### Filtering by attribute

```
new UiScrollable(
  new UiSelector().scrollable(true)
)
.scrollIntoView(
  new UiSelector()
  .resourceIdMatches(".*tmpsubacts_primary")
  .descriptionContains("See Ticket Option")
)
```

```
new UiScrollable(
  new UiSelector().scrollable(true)
)
.scrollIntoView(
  new UiSelector().textContains("Terms of use")
)
```

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#### Scrolling without any specification

```
new UiScrollable(
  new UiSelector().scrollable(true)
)
.scrollToBeginning(1)

new UiScrollable(
  new UiSelector().scrollable(true)
)
.scrollToEnd(1)
```

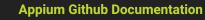


**TouchAction API** 



#### What is TouchAction?

- Is an Appium API that allows you to build up arbitrary gestures with multiple actuators.
- Is a solution that allows you to apply the same gestures for Android and iOS, avoiding the creation of different flows/interactions for each one. For example, we are not able to use UiAutomation (UiScrollable) on iOS.



#### **TouchAction examples**

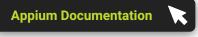
• Touching an specific element

```
TouchAction action = new TouchAction(driver);
action.press(element);
```

Touching over specific coordinates and moving to specific coordinates

```
TouchAction action = new TouchAction(driver);
action.press(10, 10);
action.moveTo(10, 100);
```

X coordinates Y coordinates



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THANKS FOR YOUR ATTENTION!

