

XCUITest Quick Reference

🕒 Test Lifecycle	
Method	Description
setUp()	Prepare app state before each test
tearDown()	Clean up after each test
measure(_ block: () → Void)	Benchmark performance blocks

👉 Basic Interactions	
Method	Description
tap() / doubleTap()	Single or double tap gesture
press(forDuration:)	Long-press gesture
typeText(_ text: String)	Enter text into a field
clearText()	Clear existing text input
swipeUp/Down/Left/Right()	Swipe gestures in any direction

✅ Assertions	
Method	Description
XCTAssertTrue/False(_ expression)	Verify a boolean condition
XCTAssertEqual(_:, _:)	Verify equality of values
XCTAssertGreaterThan(_:, _:)	Verify one value is greater than another

📱 App Control	
Method	Description
XCUIApplication()	Main handle for the app under test
app.launch()	Launch the app
app.launchArguments/launchEnvironment	Configure arguments or environment variables
app.terminate()	Terminate the app
app.activate()	Bring app to foreground

👋 Advanced Gestures	
Method	Description
pinch(withScale:velocity:)	Pinch in/out gesture
rotate(_ rotation: CGFloat, velocity: CGFloat)	Two-finger rotation gesture
press(forDuration: thenDragTo: element)	Drag and drop interaction

🖨 Device & System	
Method	Description
XCUIDevice.shared.orientation	Set the simulated device orientation
XCUIDevice.shared.press(.home/.lock)	Simulate hardware button press
addUIInterruptionMonitor(withDescription:handler:)	Handle system alerts

🔍 Element Queries	
Method	Description
app.buttons["identifier"]	Access button by accessibility identifier
app.staticTexts["label"]	Access static text by label
app.descendants(matching: .any)	General-purpose query for any element
query.firstMatch	Pick the first matching element
element(boundBy: index)	Select element at given index

⌚ Waiting & Expectations	
Method	Description
expectation(for:predicate, evaluatedWith:element)	Define a test expectation
waitForExpectations(timeout:)	Wait for expectations to be fulfilled
element.waitForExistence(timeout:)	Polling-based wait for element existence
NSPredicate	Build custom conditions for expectations

🛠 Utilities & Helpers	
Method	Description
SpringBoard app	Interact with the SpringBoard for system dialogs
Custom extensions	E.g., clearAndType(text:) convenience methods
Page Objects	Wrap common workflows into reusable classes