



iOS Widget Screenshot Automation

10 November 2022



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Senior Software Engineer



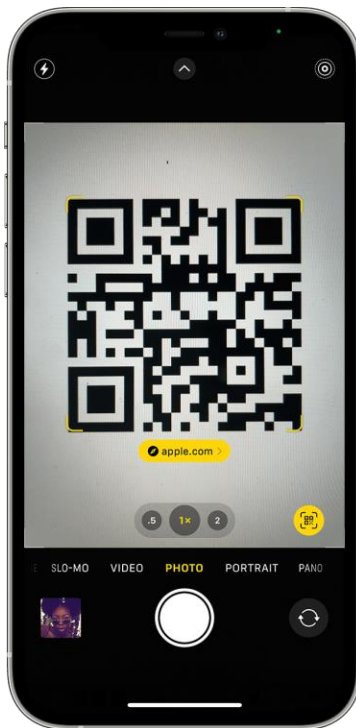
Monika Gorkani
Senior Staff Software Engineer



Alexander Botkin
Senior Mobile Engineering Manager

Watch that bottom right corner!

Open the iOS Camera app, point at the QR code, & tap the banner if you want to learn more!





Why Automate Screenshots?

App Store Connect Requirements

+ Stay ahead of ever-changing Apple screenshot requirements

Version Information

English (U.S.) ▾ ?

The product page for this app version will be published on the App Store with the assets and metadata below.

Adding screenshots for the newest devices can help you accurately represent your app's user experience on the App Store. Keep in mind that we'll use these screenshots for all iOS device sizes and localizations. Screenshots are only required for iOS apps.

[View All Sizes in Media Manager](#)



iPhone
6.7" Display
(Optional)



iPhone
6.5" Display
(Required)



iPhone
5.5" Display
(Required)



iPad Pro (6th Gen)
12.9" Display
(Required)



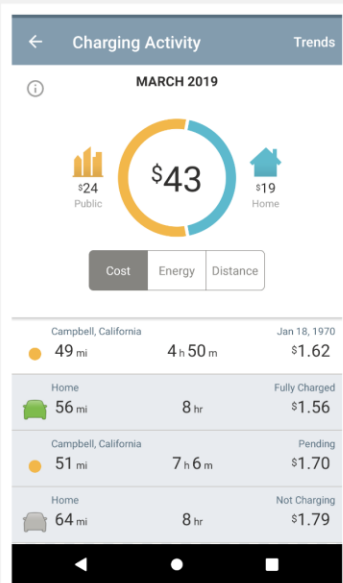
iPad Pro (2nd Gen)
12.9" Display
(Required)

Using 6.5" Display



Visual Baseline for Review & Comparison

Screenshot Name: "CPTAutomation_en_chargingActivity_step1.png"



Master

Master Screenshot taken On Device:
"Pixel2", Theme "light" & Language: "en"



Current(develop)

Branch Screenshot taken On Device:
"Pixel2", Theme "light" & Language: "en"

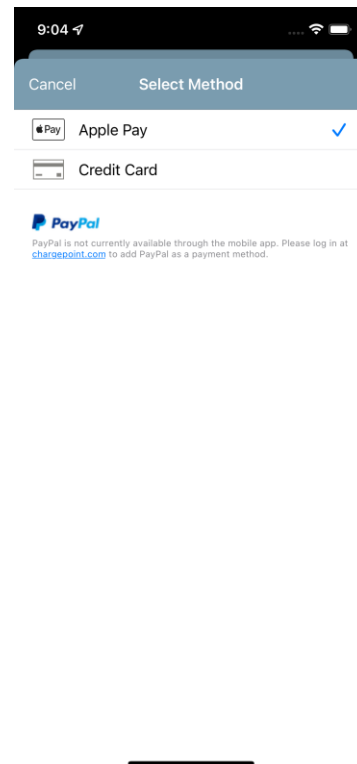
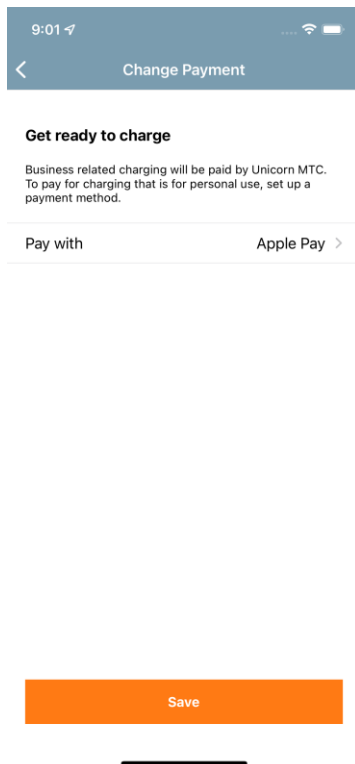
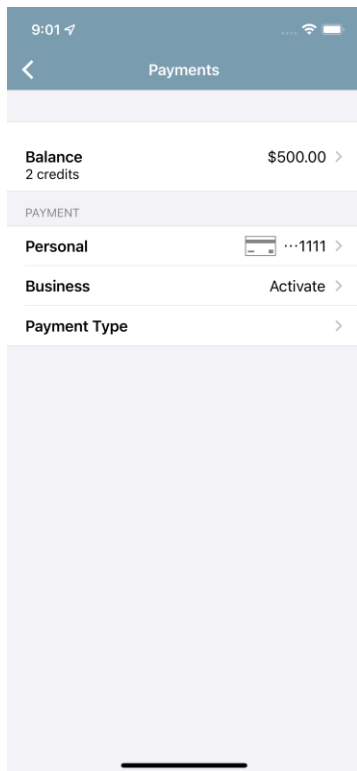


Difference

Result After Comparison On Device:
"Pixel2", Theme: "light" & Language: "en"



Guide Development of UI Changes



Empower Developers To Move Faster

Monika Gorkani 3:00 PM
/bitrise-build workflow: screenshots[b: master][ENV[API_CHARGEPOINT_IOS_DEVICE_LANGUAGE]:ko

Bitrise-Demo APP 3:00 PM
Triggered build #10 (30bcd1b9-26a8-4c71-8c8c-1ab67c910d80), with workflow: screenshots - url: <https://app.bitrise.io/build/30bcd1b9-26a8-4c71-8c8c-1ab67c910d80>

Search for apps Dashboard Integrations

abotkin bitrise-ios-widget-screenshot-automation

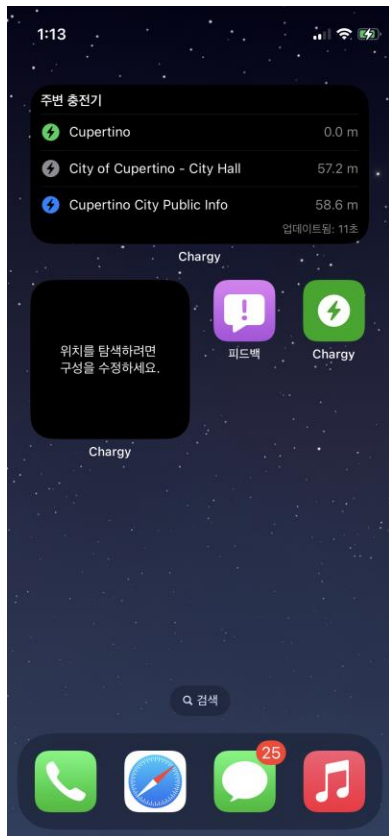
Build #13 Edit workflow Logs bitrise.yml Rebuild

SUCCESS removed unnecessary comment #b134033 View on GitHub

Workflow	Triggered at	Duration	Credit cost	Stack and machine type
screenshots	Oct 27, 3:46:26pm Webhook - @github/mgorkani-cpi	8m 26s	18 credits	Xcode 14.1.x, on macOS 12.5 (Monterey) Gen2 Standard

Log Artifacts Details & Add-ons

- attachments.zip
Generated by screenshots [Download](#)
- codecoverage.zip
Generated by screenshots [Download](#)
- logs.zip
Generated by screenshots [Download](#)
- MyAutomation_configuredHomeScreenWidget_1_F23C63B3-2372-4233-9336-1EEF74A38E45.png
Generated by screenshots [Download](#)
- MyAutomation_configuredLockScreenWidget_1_ID69F859-8D84-41ED-BD5F-3829E51C0F19.png
Generated by screenshots [Download](#)
- MyAutomation_darkMapView_1_8DF486CF-72FB-4DD8-A77B-D143DC9F38E6.png
Generated by screenshots [Download](#)
- MyAutomation_homeScreenWidgetConfiguration_1_041E67A1-3C5D-4D63-8ADF-9FE1EECD4579.png
Generated by screenshots [Download](#)

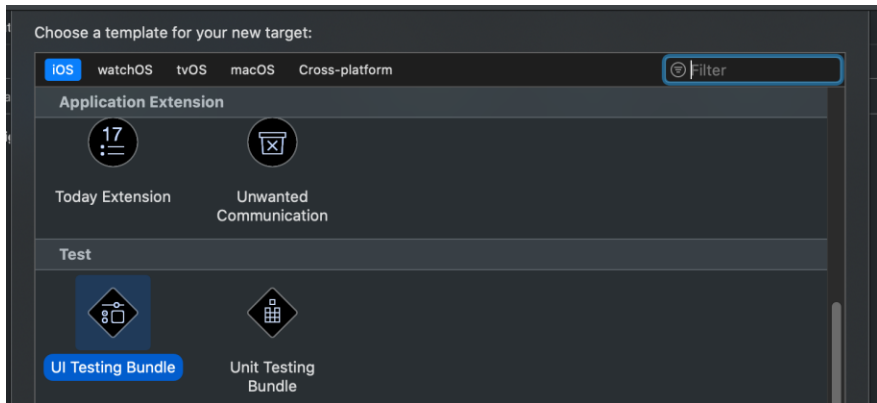




How Do We Automate Screenshots?

How do we create screenshots?

- + UI Testing Bundle target
- + Xcode generates a `<YourAppName>UITests.swift` file with an `XCTestCase` subclass
- + We need to add test functions that save attachments onto the `XCTestCase`



How do we create screenshots?

```
func testMainViewScreenshot() throws {  
    // UI tests must launch the application that they test.  
    let app = XCUIApplication()  
    app.launch()  
  
    // Let's ensure the view has appeared by using the accessibility identifier  
    // we set up in the storyboard  
    let darkMapVCView = app.otherElements["Dark Map View"];  
    XCTAssertTrue(darkMapVCView.waitForExistence(timeout: 3))  
  
    // Now let's get a screenshot & save it to the xctest result as an attachment  
    let screenshot = XCUIScreen.main.screenshot()  
  
    let attachment = XCTAttachment(screenshot: screenshot)  
    attachment.name = "MyAutomation_darkMapView"  
    attachment.lifetime = .keepAlways  
  
    self.add(attachment)  
}
```



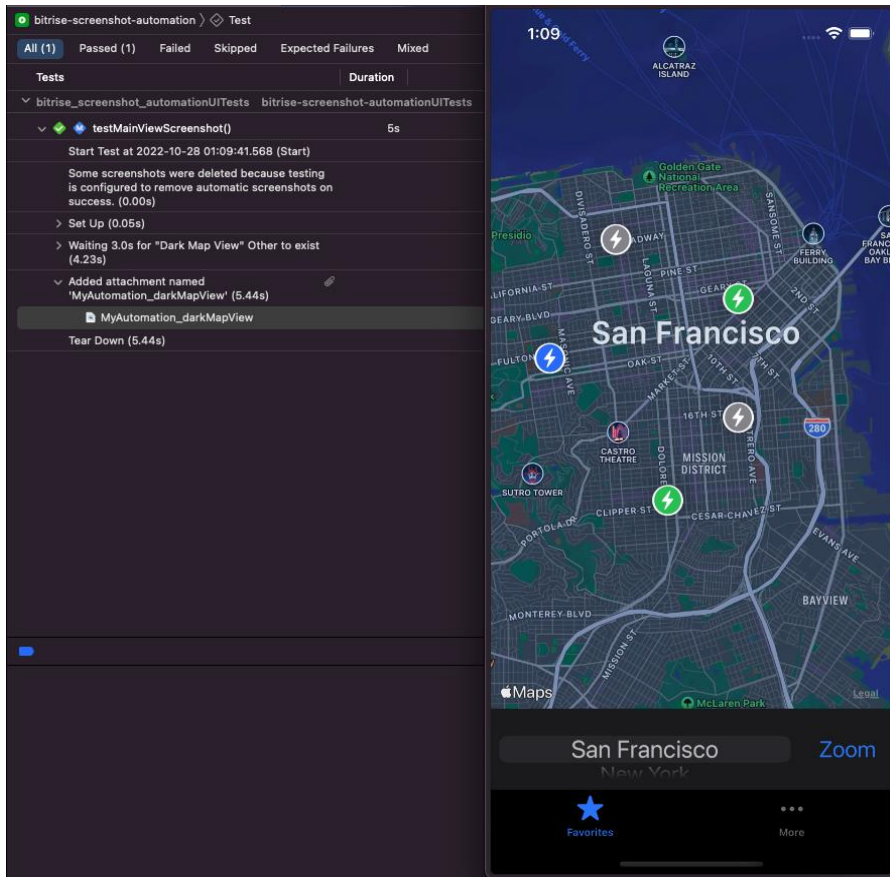
How do we create screenshots?

```
//  
// XCTestCase+Screenshots.swift  
// bitrise-screenshot-automationUITests  
//  
  
import XCTest  
  
extension XCTestCase {  
    func saveScreenshot(_ name: String) {  
        let screenshot = XCUIScreen.main.screenshot()  
  
        let attachment = XCTAttachment(screenshot: screenshot)  
        attachment.name = name  
        attachment.lifetime = .keepAlways  
  
        self.add(attachment)  
    }  
}
```

How do we create screenshots?

```
func testMainViewScreenshot() throws {  
    // UI tests must launch the application that they test.  
    let app = XCUIApplication()  
    app.launch()  
  
    // Let's ensure the view has appeared by using the accessibility identifier  
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    let darkMapVCView = app.otherElements["Dark Map View"];  
    XCTAssertTrue(darkMapVCView.waitForExistence(timeout: 3))  
  
    // Now let's get a screenshot & save it to the xctest result as an attachment  
    self.saveScreenshot("MyAutomation_darkMapView")  
}
```

How do we create screenshots?



So...what is XCUIApplication doing?

- + XCUIApplication is a proxy for a specified process that allows you to send events like launch, monitor, and terminate in a UITest
- + You can create a specific proxy for an app and interact with its elements by initializing XCUIApplication with the app's Bundle ID

```
let settings = XCUIApplication(bundleIdentifier: "com.apple.Preferences")
```

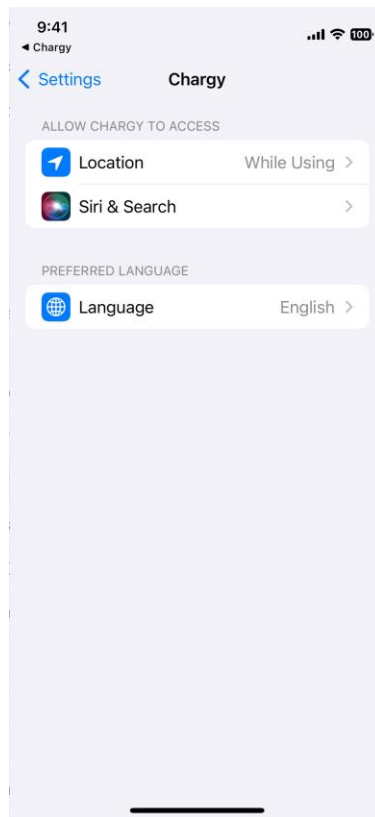


Settings

```
func testOpenAppSettings() throws {  
    // Access the Settings app using its bundle identifier  
    let settings = XCUIApplication(bundleIdentifier: "com.apple.Preferences")  
    settings.activate()  
  
    // Swipe until Chargy is visible  
    settings.swipe(direction: .Up, numSwipes: 4)  
  
    // Navigate to our app's settings  
    settings.cells["Chargy"].tap()  
  
    // Save App Settings Screenshot  
    self.saveScreenshot("MyAutomation_AppSettings")  
}
```



Settings



Processes, not applications

+ Useful App Bundle IDs

- com.apple.Preferences (Settings)
- com.apple.mobileSafari (Safari)
- com.apple.shortcuts (Shortcuts)

+ You can find Bundle IDs for installed apps on a device/simulator with the following command: `% xcrun simctl listapps {DEVICE_UUID}`

+ Other useful processes

- com.apple.springboard
- com.apple.Posterboard
- com.apple.WorkflowUI.WidgetConfigurationExtension



Processes, not applications

```
let springboard = XCUIApplication(bundleIdentifier: "com.apple.springboard")
```

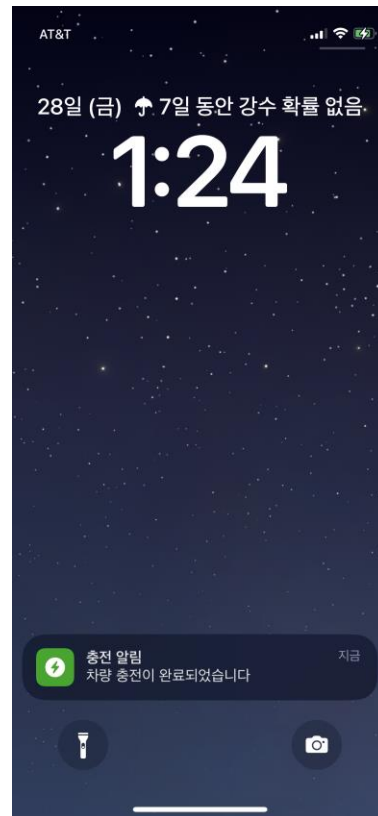
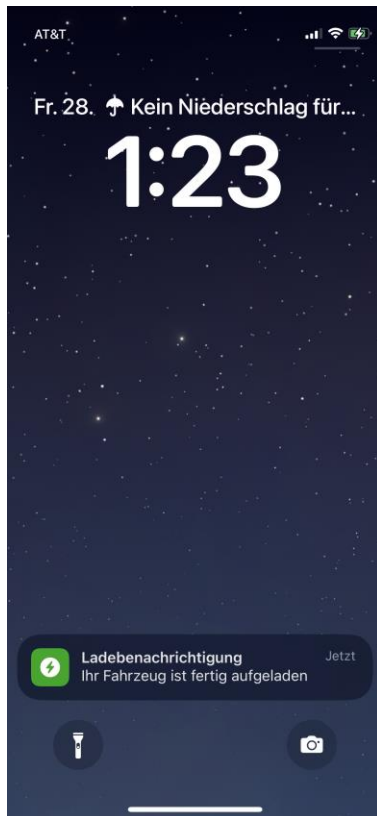
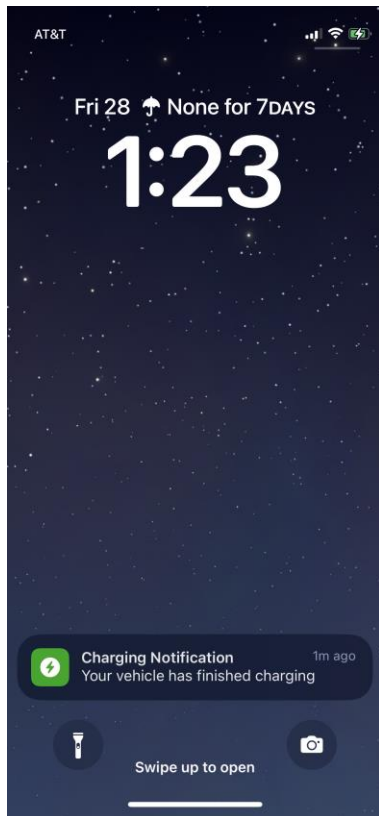
- + Springboard is the process that manages the iOS Home Screen
- + Creating a proxy for Springboard using XCUIApplication allows developers to write more powerful UI tests
 - Open Notification Center
 - Access Spotlight Search
 - Navigate to Today View
 - Add Widgets

Notification Center

```
func testNotificationCenter() {  
    let app = XCUIApplication()  
    let button = app.buttons["ZoomButton"]  
    XCTAssertTrue(button.exists)  
    button.tap()  
    handleAlerts(app: app)  
  
    // Springboard allows us to interact with the home screen  
    let springboard = XCUIApplication(bundleIdentifier:  
"com.apple.springboard")  
    springboard.activate()  
  
    // Swipe down from the top to get to the lock screen to view  
    notifications  
    let coord1 = springboard.coordinate(withNormalizedOffset: CGVector(dx: 0,  
dy: 0))  
    let coord2 = springboard.coordinate(withNormalizedOffset: CGVector(dx: 0,  
dy: 2))  
    coord1.press(forDuration: 0.1, thenDragTo: coord2)  
  
    self.saveScreenshot("MyAutomation_Notification")  
}
```



Notification Center



Today View

```
func testTodayWidgetScreenshot() throws {
    // Springboard allows you to navigate the home screen
    let springboard = XCUIApplication(bundleIdentifier: "com.apple.springboard")
    springboard.activate()

    // Swipe until we get to the Today View
    springboard.swipe(direction: .Right, numSwipes: 2)

    // Swipe until edit button is visible. Using XCUIApplication extension method here.
    springboard.swipe(direction: .Up, numSwipes: 2)

    let editButton = springboard.buttons.firstMatch
    XCTAssertTrue(editButton.waitForExistence(timeout: 3))
    editButton.tap()

    // Swipe until Customize button is visible
    springboard.swipe(direction: .Up, numSwipes: 3)

    // Using XCUIElementQuery extension to access second last match
    var customizeButton = springboard.buttons.secondLastMatch

    customizeButton.tap()

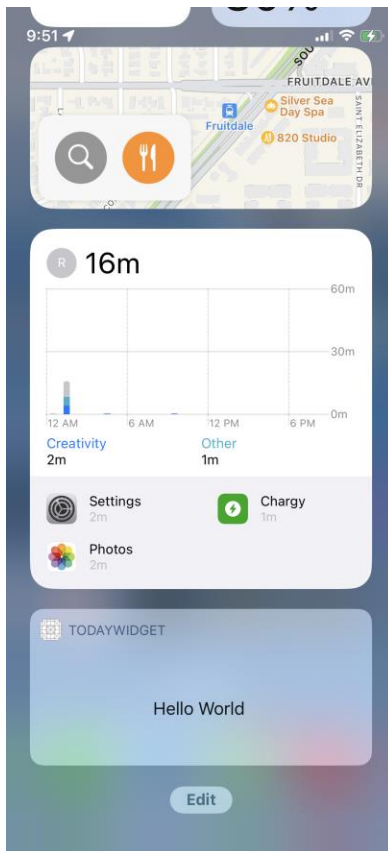
    // Find and tap to add the TodayWidget
    let widgetNamePredicate = NSPredicate(format: "label CONTAINS[c] 'TodayWidget'")
    let addWidgetCells = springboard.cells.matching(widgetNamePredicate)
    addWidgetCells.buttons.firstMatch.tap()

    let doneButton = springboard.navigationBar.buttons.secondMatch
    doneButton.tap()

    springboard.swipe(direction: .Up, numSwipes: 1)
    self.saveScreenshot("MyAutomation_todayWidget")
}
```



Today View



Home Screen Widgets

```
func addHomeScreenWidget(isMediumSize: Bool) throws {
    // The Springboard application allows us to interact with the home screen
    let springboard = XCUIApplication(bundleIdentifier: "com.apple.springboard")
    springboard.activate()

    // Press and hold to edit home screen
    springboard.press(forDuration: 3)
    // Tap on the add widgets button
    springboard.buttons.firstMatch.tap()
    // Find search field, search for app, and tap to add widgets
    springboard.searchFields.firstMatch.tap()
    springboard.typeText("Chargy")
    springboard.collectionViews.cells["Chargy"].tap()

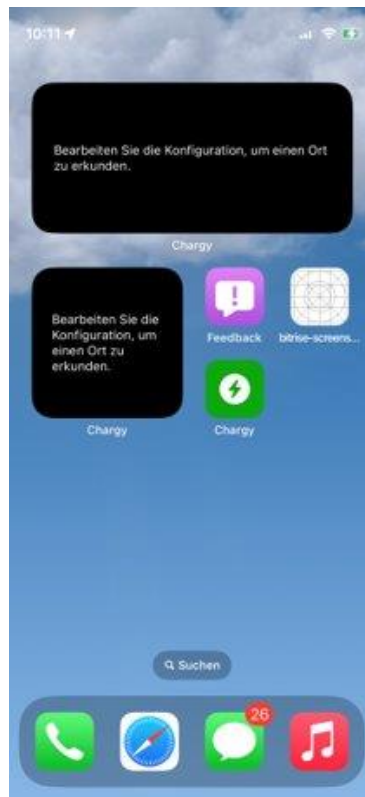
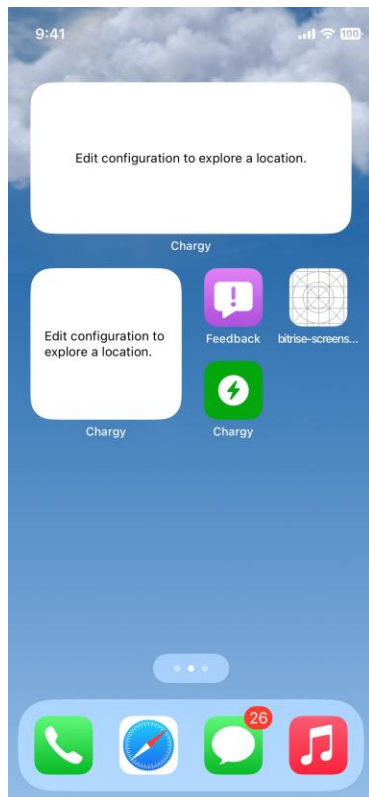
    // If medium size, swipe to medium size widget
    if (isMediumSize) {
        springboard.swipe(direction: .Left, numSwipes: 1)
    }

    // Tap "Add Widget" button and then tap "Done" button
    springboard.buttons.thirdLastMatch.tap()
    springboard.buttons.secondMatch.tap()

    // Save Home Screen Widget Screenshot
    self.saveScreenshot("MyAutomation_homeScreenWidget")
}
```



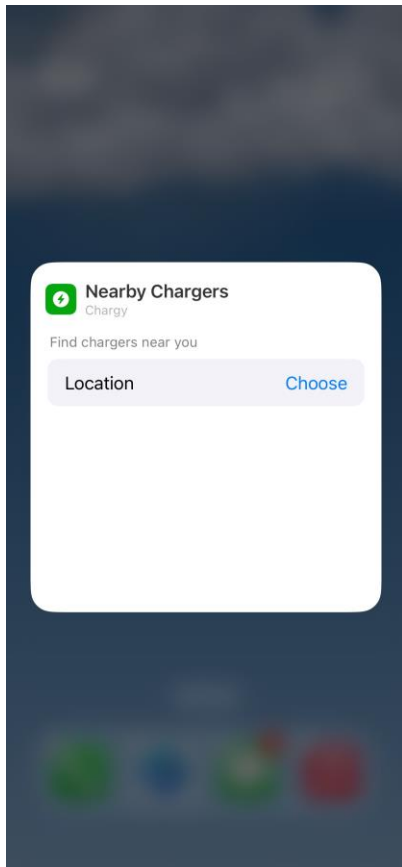
Home Screen Widgets



Editing Home Screen Widgets

```
let widgetConfig = XCUIApplication(bundleIdentifier:  
    "com.apple.WorkflowUI.WidgetConfigurationExtension")
```

- + Elements of the Widget Configuration are not visible to Springboard.
- + The Process that handles Widget Configuration: `WorkflowUI.WidgetConfigurationExtension`
- + The `WorkflowUI` private framework contains other extensions as well.
 - `AddShortcutExtension`
 - `CatalystContentExtension`
 - `FocusConfigurationExtension`



Editing Home Screen Widgets

```
func editHomeScreenWidget() {
    let springboard = XCUIApplication(bundleIdentifier: "com.apple.springboard")
    springboard.press(forDuration: 3)
    springboard.icons.matching(identifier: "Chargy").firstMatch.tap()

    // Use WidgetConfigurationExtension XCUIApplication to navigate the home screen
    widget configuration
    let widgetConfig = XCUIApplication(bundleIdentifier:
    "com.apple.WorkflowUI.WidgetConfigurationExtension")

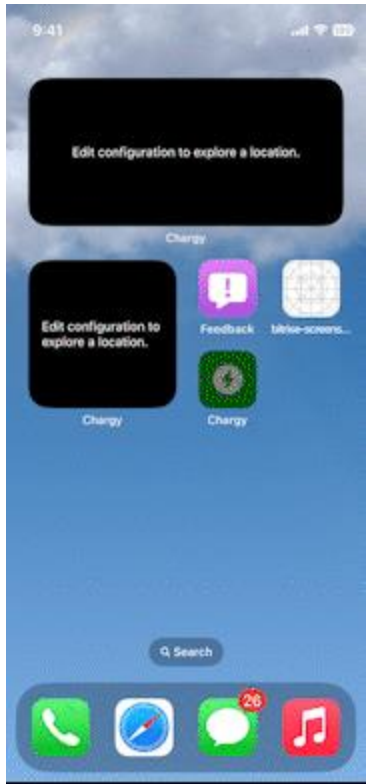
    self.saveScreenshot("MyAutomation_homeScreenWidgetConfiguration")

    widgetConfig.buttons.firstMatch.tap()
    widgetConfig.searchFields.firstMatch.tap()
    widgetConfig.typeText("Cupertino\n")
    widgetConfig.cells.firstMatch.tap()
    widgetConfig.buttons.secondMatch.tap()

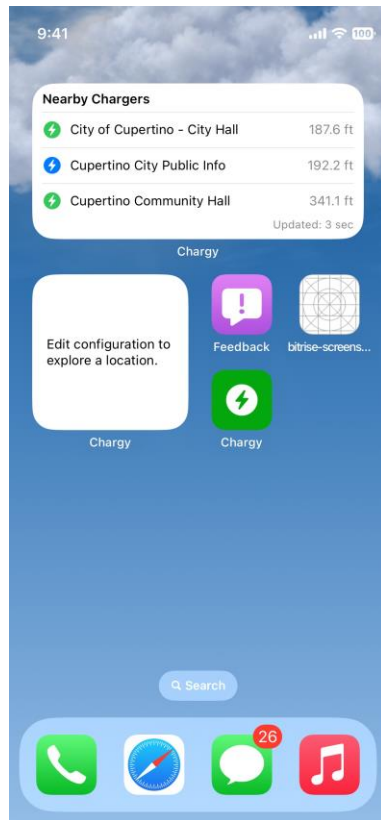
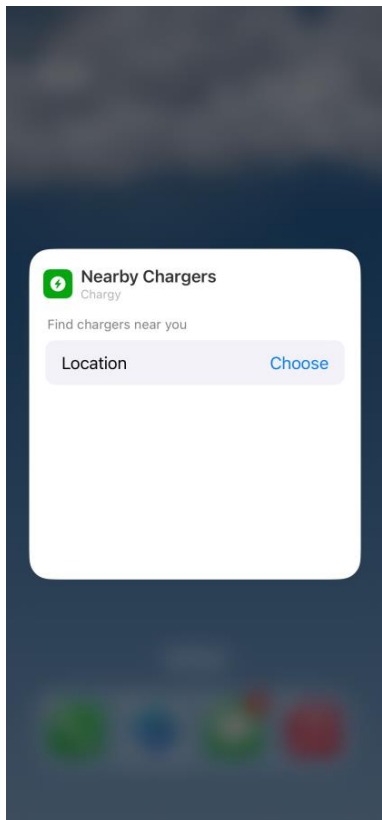
    // Dismiss configuration
    springboard.coordinate(withNormalizedOffset: CGVector(dx: 0, dy: 0)).tap()

    springboard.buttons.secondMatch.tap()

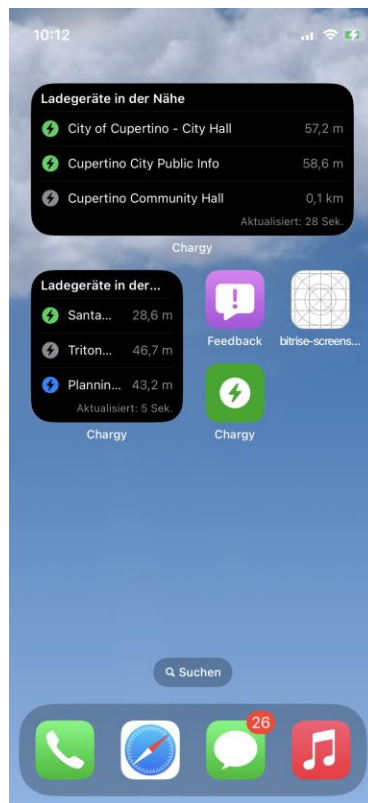
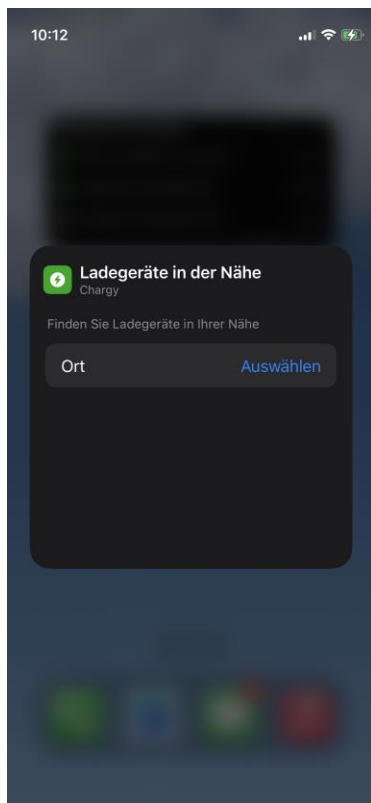
    self.saveScreenshot("MyAutomation_configuredHomeScreenWidget")
}
```



Editing Home Screen Widgets



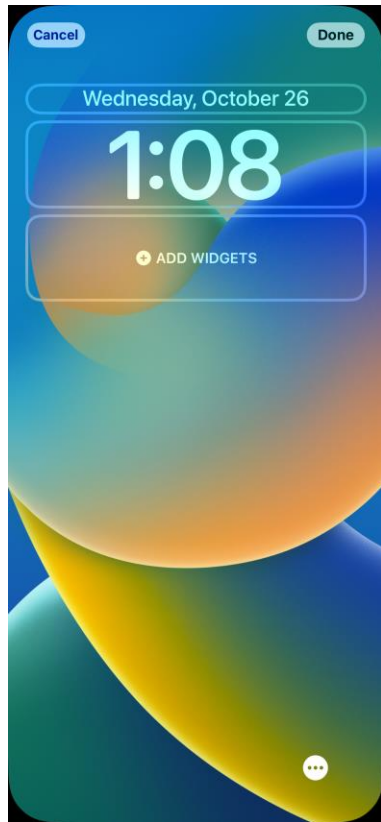
Editing Home Screen Widgets



Lock Screen Widgets

```
let posterboard = XCUIApplication(bundleIdentifier:  
"com.apple.Posterboard")
```

- + With iOS 16, the Lock Screen can now be customized
 - Font and Text Color
 - Wallpaper
 - Widgets
- + Lock Screen customization is handled by a new process called Posterboard



Lock Screen Widgets

```
func addLockScreenWidget() {
    let springboard = XCUIApplication(bundleIdentifier: "com.apple.springboard")
    springboard.activate()

    // Swipe down from the top to get to the lock screen
    let coord1 = springboard.coordinate(withNormalizedOffset: CGVector(dx: 0, dy: 0))
    let coord2 = springboard.coordinate(withNormalizedOffset: CGVector(dx: 0, dy: 2))
    coord1.press(forDuration: 0.1, thenDragTo: coord2)

    // Press and hold to edit lock screen
    springboard.press(forDuration: 3)

    // Tap Customize
    springboard.buttons.matching(identifier: "posterboard-customize-button").firstMatch.tap()

    // Tap to customize Lock Screen
    springboard.collectionViews["posterboard-collection-view"].cells.firstMatch.tap()

    // Use posterboard to navigate lock screen customization
    let posterboard = XCUIApplication(bundleIdentifier: "com.apple.PosterBoard")

    // Tap Add Widgets cell
    posterboard.buttons.lastMatch.tap()

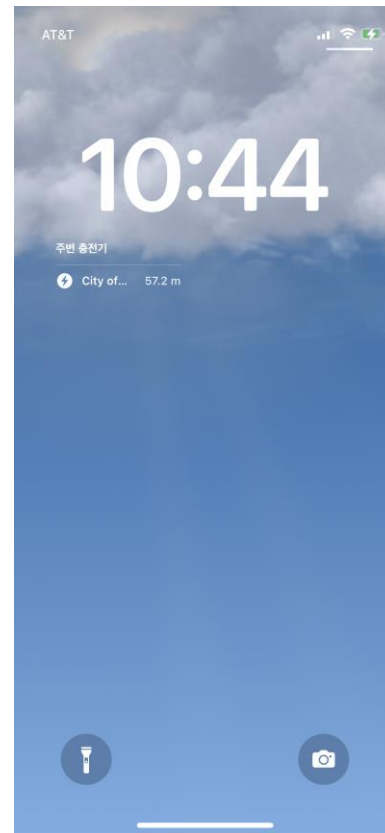
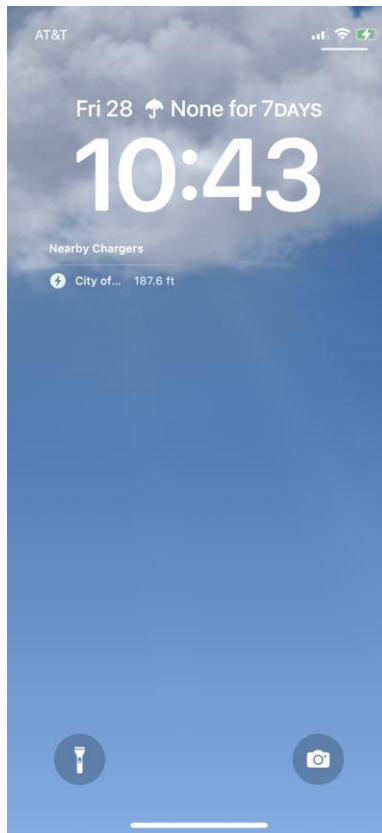
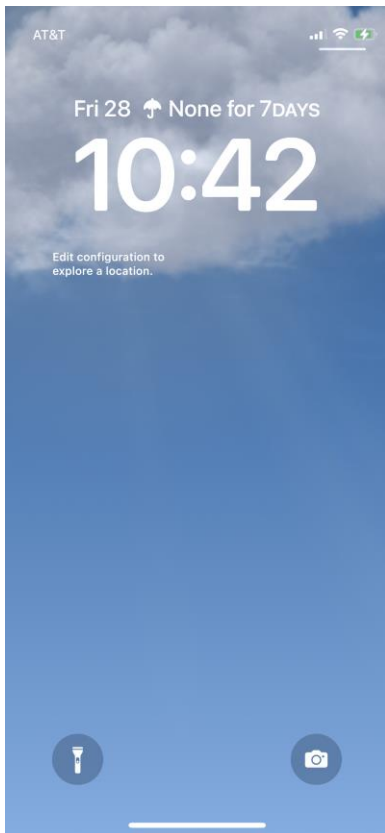
    // Find and add widget
    posterboard.cells["Chargy"].tap()
    springboard.buttons.lastMatch.tap()

    // Dismiss lock screen editing views
    springboard.buttons.firstMatch.tap()
    springboard.buttons.firstMatch.tap()
    springboard.buttons.secondMatch.tap()
    springboard.tap()

    self.saveScreenshot("MyAutomation_lockScreenWidget")
}
```



Lock Screen Widgets



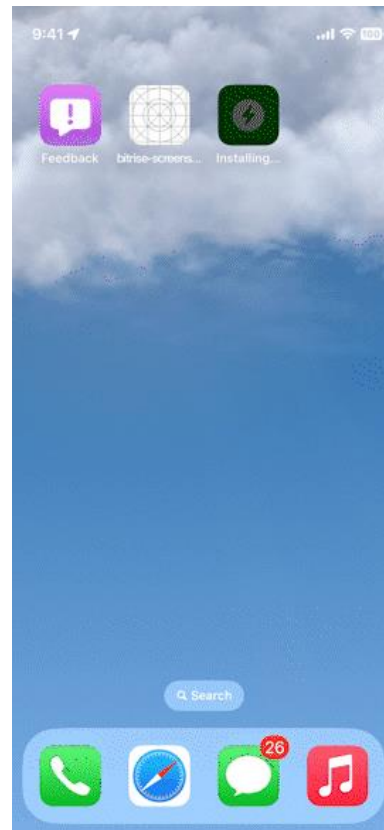
Siri Shortcuts

- + XCUIDevice is a proxy that is used to simulate physical buttons, device orientation, and Siri interaction
- + An XCUIDevice instance's *siriService* property represents the device's Siri interface
- + Using XCUISiriService
 - `func activate(voiceRecognitionText: String)`
 - Presents the Siri UI and accepts a string as if it were recognized speech (Uses the device's Siri input language setting)

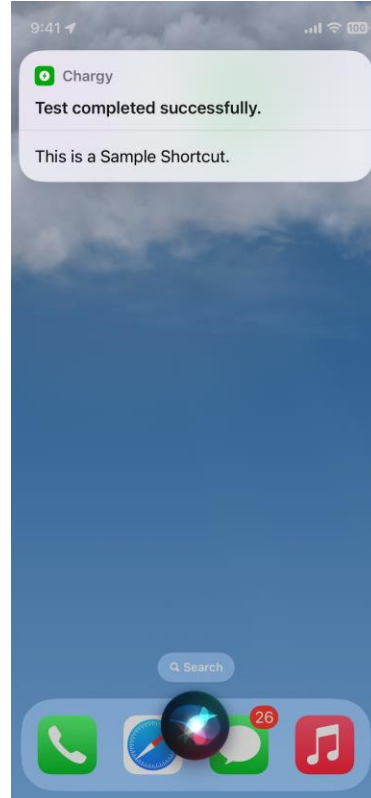


Siri Shortcuts

```
func testSiriShortcut() throws {  
    let springboard = XCUIApplication(bundleIdentifier:  
        "com.apple.springboard")  
    springboard.activate()  
  
    // Use XCUISiriService to pass text to Siri and invoke App Shortcut  
    XCUIDevice.shared.siriService.activate(voiceRecognitionText: "Run  
sample with Chargy")  
  
    sleep(3)  
  
    self.saveScreenshot("MyAutomation_sampleSiriShortcut")  
}
```

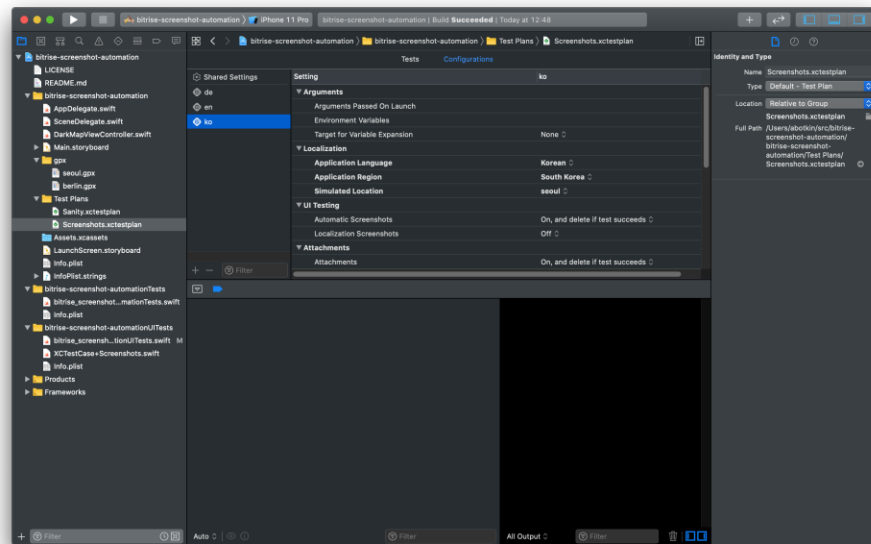


Siri Shortcuts



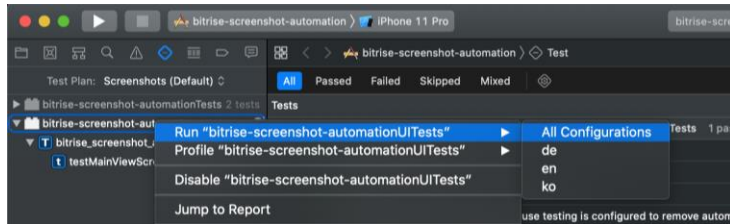
How do we create screenshots?

- + How do we run the app in different languages & regions?
 - + Make one test plan & add various configurations
- + Create run configurations specific to an app language/region pairing
 - + Does not affect device language & thus some system prompts
- + Add GPX file in Xcode to simulate a custom GPS coordinate or route



How do we create screenshots?

- + With test plans, can run all configurations & create one report (xcresult)
 - + xcodebuild option: *-testPlan 'Screenshots'*
- + Can also run one specific run configuration
 - + xcodebuild option: *-only-test-configuration "de"*
- + On Bitrise's Xcode Test step, these options have to be added in the 'xcodebuild configuration' section



xcodebuild configuration

Build settings (xcconfig)

Build settings to override the project's build settings, using xcodebuild's `-xcconfig` option.

COMPILER_INDEX_STORE_ENABLE = NO

Perform clean action REQUIRED

If this input is set, `clean` xcodebuild action will be performed besides the `test` action.

no

Additional options for the xcodebuild command

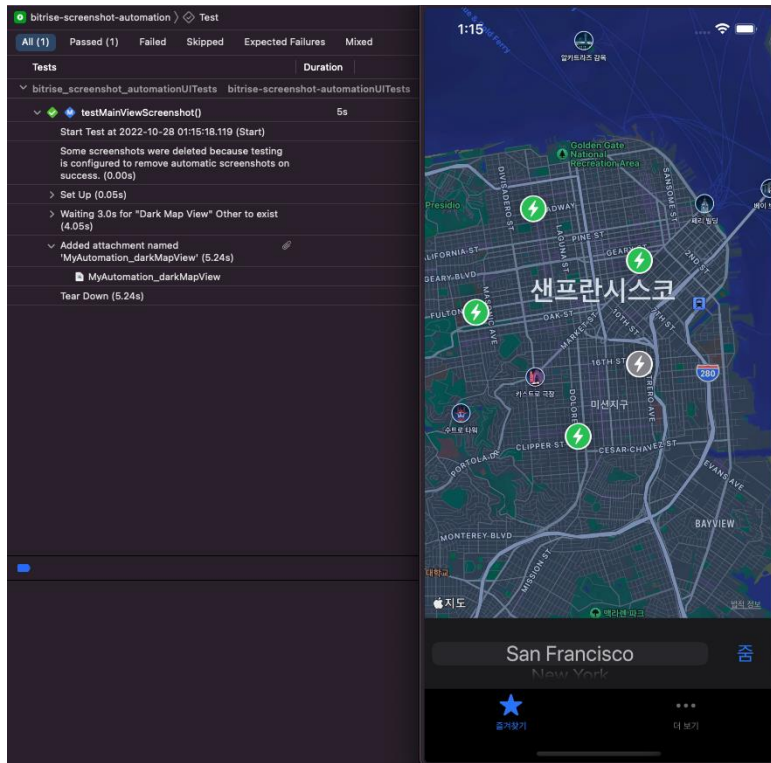
Additional options to be added to the executed xcodebuild command.

`-only-test-configuration $CHARGEPOINT_IOS_DEVICE_LANGUAGE`



How do we create screenshots?

+ We have the report (xcresult), but how do we get all the screenshots out at once?

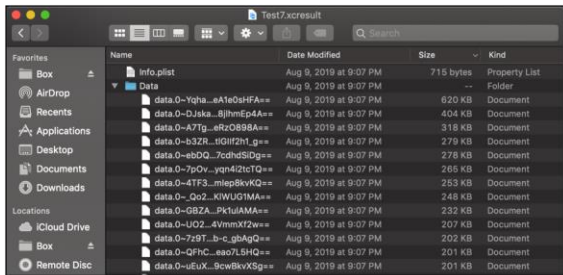




Extracting Screenshots

xresult & xresulttool

- + *xresulttool* is included in Xcode 11+ command line tools to do inspection & extraction of xresult
 - + Powerful tool
 - + Not a one-line extractor



```
$ xcrun xresulttool get --path $xresultpath --format json
```

```
$ xcrun xresulttool get --path $xresultpath --format json --id 0-_6FLLXVxqNZFWTecoWAKeruyb1Jz8RMTQhV1WOY6rrDKD9fctctLS71METaymkBgT27dA5y8aPQt07QGqf22Aw==
```

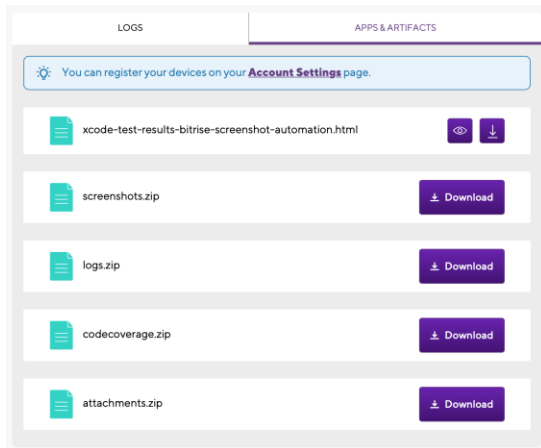
```
$ xcrun xresulttool get --path $xresultpath --format json --id 0-kQ1eE6SCOH0qHvf_H1RgkahpjprRs3YG7BK10_Twqzv4Cu3r7mbK3WS0SudzsrE7_4I6nPMnjdiXXdri8bH_W==
```

```
$ xcrun xresulttool export --path $xresultpath --output-path $destinationPath/$filename --id 0-JVQMke6IgJ5d1MjzEtX2RGgfrtdmFxsP76yVke-zoykhLqzSlva1Vbnxk0VCNIjxXPfh2ldYqmCoyldz_YifmQ== --type file
```



xcparse

- + Swift command line tool to parse Xcode xctest
 - + Extracts screenshots, attachments, logs (device, testmanagerd, etc.), & code coverage
 - + *xcparse screenshots* makes extraction one command
- + Options to separate screenshots by model, OS, language, test plan, test, & more
- + Bitrise plugin support
 - + Adds ZIPs with files directly to Bitrise Deploy
 - + Provides the paths to the ZIPs as output for your own scripts to use





Integrating with Bitrise

What's our Goal?

Making it easy for any developer on the team to launch customized screenshot builds



Monika Gorkani 1:30 PM

/bitrise-build workflow: screenshots|b: master|ENV[CHARGEPOINT_IOS_DEVICE_LANGUAGE]:ko



Bitrise-Demo APP 1:30 PM

Triggered build #7 (405aa077-813b-491f-9955-cfa6a3d87bac), with workflow: screenshots - url: <https://app.bitrise.io/build/405aa077-813b-491f-9955-cfa6a3d87bac>

Environment Variables

- + Use environment variables to configure options like test plan, configuration, device, interface style
- + Allows you to have one workflow that can do all the work
- + You can set default values for the environment variables when workflow is invoked or customize it if you make a workflow clone
- + Allows for replacement of values via curl or Bitrise Slack slash commands
 - + Need a script step to set environment variable from those passed via APIs

```
#!/bin/bash
```

```
# Pull any arguments that may have been set from Slack slash commands and such
```

```
if [ ! -z "$API_CHARGEPOINT_IOS_DEVICE_LANGUAGE" ] ; then  
  envman add --key CHARGEPOINT_IOS_DEVICE_LANGUAGE --value "$API_CHARGEPOINT_IOS_DEVICE_LANGUAGE"  
fi
```

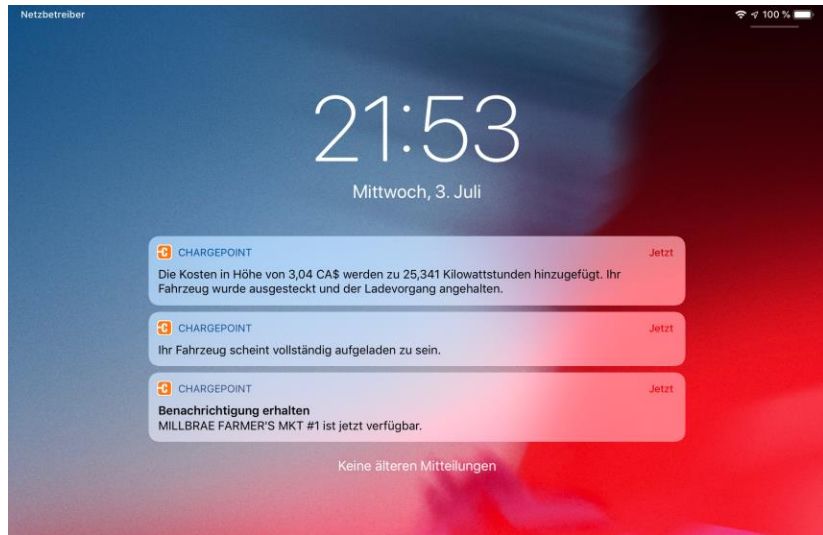


Device Language in Simulator

- + Test plan language settings only affect the app language & region, not the device
 - + Leaves OS dialogues that don't happen in your process unlocalized
- + Modifying the Simulator's defaults can be a workaround for this

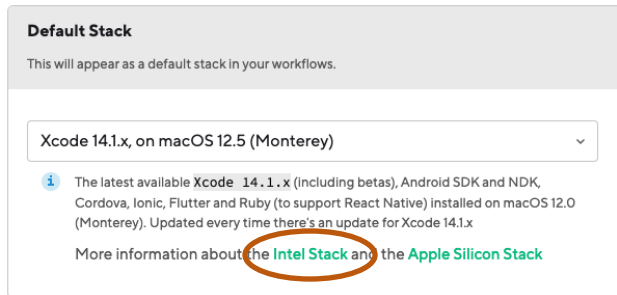
```
#!/bin/bash

# Iterate over every Simulator & modify the global
# preferences for lang/region
find ~/Library/Developer/CoreSimulator/Devices/* -
type d -maxdepth 0 -exec /usr/libexec/PlistBuddy -c
"Delete :AppleLanguages" -c "Add :AppleLanguages
array" -c "Add :AppleLanguages:0 string
$CHARGEPOINT_IOS_DEVICE_LANGUAGE" -c "Delete
:AppleLocale" -c "Add :AppleLocale string
$CHARGEPOINT_IOS_DEVICE_REGION"
{}/data/Library/Preferences/.GlobalPreferences.plist
\;
```



Stack Simulator Availability

- + Bitrise stacks may not have all the Simulators you want
- + Check the stack information to see what's in the VM by default



```
-- iOS 16.1 --
iPhone 8 Plus (D84FE9AD-3763-4C7A-B3B6-541E1CAF043B) (Shutdown)
iPhone 11 (6FBB46E4-960F-4EA8-B4EE-7502C80F2560) (Shutdown)
iPhone SE (3rd generation) (93F8A2C4-D46B-40CB-9A96-73E80ACFE335) (Shutdown)
iPhone 14 (72C3AE83-9A62-4CE8-BCC5-EAA3D56F8FB4) (Shutdown)
iPhone 14 Plus (C9014C45-40FF-400B-A993-C9BBBA01CFDC) (Shutdown)
iPhone 14 Pro (4F547B68-C6BF-4B89-AE1C-C7009AEF7DF0) (Shutdown)
iPhone 14 Pro Max (68F9E025-D0B6-443A-AFEE-5C4014F05354) (Shutdown)
iPad Air (5th generation) (ACC33325-3496-40B5-84E4-9220F9B78916) (Shutdown)
iPad (10th generation) (60E574B4-FB6B-462D-935B-DCA79EDF77A0) (Shutdown)
iPad mini (6th generation) (64F8A038-74ED-452B-96F4-C8F90E85FF10) (Shutdown)
iPad Pro (11-inch) (4th generation) (FAFE04E7-3F5C-4CCD-B034-9647DA1F8648) (Shutdown)
iPad Pro (12.9-inch) (6th generation) (286171CB-20F2-4BF8-8D40-75CD1350CFED) (Shutdown)
```

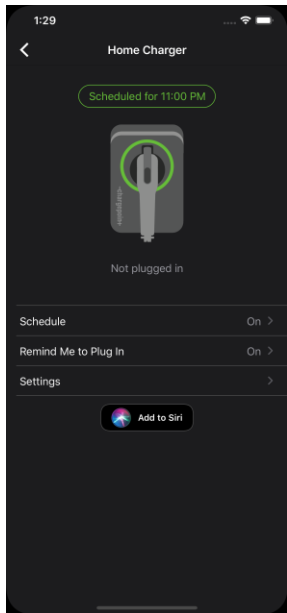
- + If there's a Simulator you need, create it in a script step using simctl

```
#!/bin/bash
```

```
# Create the iPad Pro (12.9-inch) (5th generation) simulator
```

```
xcrun simctl create "iPad Pro (12.9-inch) (5th generation)" "com.apple.CoreSimulator.SimDeviceType.iPad-Pro-12-9-inch-5th-generation" "com.apple.CoreSimulator.SimRuntime.iOS-16-0"
```

Dark Mode Screenshots

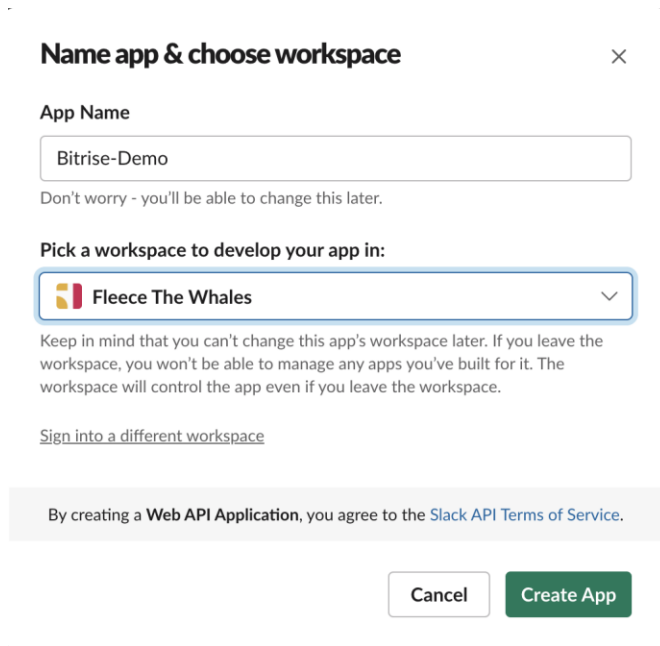


- + Xcode 11.4+ added `simctl` command to change device's UI style
 - + `xcrun simctl ui <DEVICE> appearance dark`
- + For Xcode 11.0 to 11.3, this option doesn't exist
 - + Can modify the Info.plist of your app in a script step
 - + Real device or simulator
 - + Affects app UI style only
 - + Can modify default in `com.apple.uikit.services.userInterfaceStyleMode`
 - + Simulator only
 - + Affects device & app UI style



Slack Slash Commands for Bitrise

- + Create an app in Slack (api.slack.com)
- + Set up Slack commands using the outgoing webhook from Bitrise



The screenshot shows the 'Name app & choose workspace' dialog box in Slack. It has a title bar with a close button (X). The 'App Name' field contains 'Bitrise-Demo'. Below it is a note: 'Don't worry - you'll be able to change this later.' The 'Pick a workspace to develop your app in:' section shows a dropdown menu with 'Fleece The Whales' selected. Below this is a warning: 'Keep in mind that you can't change this app's workspace later. If you leave the workspace, you won't be able to manage any apps you've built for it. The workspace will control the app even if you leave the workspace.' There is a link: '[Sign into a different workspace](#)'. At the bottom, a grey bar contains the text: 'By creating a **Web API Application**, you agree to the [Slack API Terms of Service](#).' Below the grey bar are two buttons: 'Cancel' and 'Create App'.


Name app & choose workspace ✕

App Name

Bitrise-Demo

Don't worry - you'll be able to change this later.

Pick a workspace to develop your app in:

 Fleece The Whales ▾

Keep in mind that you can't change this app's workspace later. If you leave the workspace, you won't be able to manage any apps you've built for it. The workspace will control the app even if you leave the workspace.

[Sign into a different workspace](#)

By creating a **Web API Application**, you agree to the [Slack API Terms of Service](#).

Cancel Create App

Create slash command

Edit Command

Command	<input type="text" value="/bitrise-build"/>
Request URL	<input type="text" value="https://hooks.bitrise.io/h/slack/6b4..."/>
Short Description	<input type="text" value="Launches build on bitrise"/>
Usage Hint	<input type="text" value="[which rocket to launch]"/> <p>Optionally list any parameters that can be passed.</p>
<div>Escape channels, users, and links sent to your app <input type="checkbox"/></div> <p>Unescaped: @user #general</p>	

Preview of Autocomplete Entry

Commands matching "bitrise-build"

Bitrise-Demo

/bitrise-build

Launches build on bitrise

Getting outgoing webhook from Bitrise

abotkin > BN bitrise-ios-widget-screenshot-automation >

App settings

General

Team

Test devices

Builds

Integrations

Notifications

Add-ons

Integrations

Service credential user

The user whose account is used to communicate with connected services

Current service credential user

mgorkani-cpi

Test GitHub connection

Change service credential user

Remove mgorkani-cpi

If you want to change the service credential user to someone other than yourself, you need to log in and make the change themselves.

Outgoing Webhooks

Outgoing webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide.

+ Add webhook

URL

https://hooks.slack.com/services/T6R[REDACTED]

https://api.ship.bitrise.io/webhook


https://rolling-builds.bitrise.io/webhook/pipeline-webhook

https://rolling-builds.bitrise.io/webhook

https://vdt.bitrise.io/webhook

Sample slack command

 **Monika Gorkani** 3:00 PM
/bitrise-build workflow: screenshots|b: master|ENV[API_CHARGEPOINT_IOS_DEVICE_LANGUAGE]:ko

 **Bitrise-Demo** APP 3:00 PM
Triggered build #10 (30bcd1b9-26a8-4c71-8c8c-1ab67c910d80), with workflow:
screenshots - url: <https://app.bitrise.io/build/30bcd1b9-26a8-4c71-8c8c-1ab67c910d80>

Sample App: bitrise-ios-widget-screenshot-automation

The screenshot displays the Bitrise interface for a workflow named "4.0.x". The left sidebar shows a list of steps: "Add missing simulators", "Set up environment variables", "Disable hardware keyboard in Si...", "Modify Simulator language bef...", "Set UIUserInterfaceStyle", and "Xcode Test for iOS". The main panel shows the configuration for the "Set up environment variables" step (version 1.x.x).

Version: 1.1.6
Step's latest version is: 1.1.6

You will get minor and patch updates on this step **1.x.x**

Run if previous Step failed

Input variables

Script content **REQUIRED** **Insert variable**

Type your script here.
Make sure that it returns a non zero exit code in case of an error! The step will only fail if your script returns with a non zero exit code!

```
#!/usr/bin/env bash
# fail if any commands fails
set -e
# debug log
set -x

# Set the Info.plist to the style we want
/usr/libexec/PlistBuddy -c 'Add :UIUserInterfaceStyle string "$CHARGEPOINT_UIINTERFACESTYLE"' bitrise-screenshot-automation/Info.plist
```

Environment Variables won't be replaced in input by the Bitrise CLI before starting the Step.

Config **+**

Debug **+**

<https://github.com/ChargePoint/bitrise-ios-widget-screenshot-automation>





Hands-on



Thank You

For further information on this topic,
check out the sample code on GitHub

<https://github.com/ChargePoint/bitrise-ios-widget-screenshot-automation>

