Mac Quick Start

This Quick Start guide covers everything you need to know to get Lister up and running for OS X. After completing this guide, you will have built and run the Lister OS X app and OS X Today widget on your Mac.

Prerequisites

Lister for OS X supports **iCloud Document Storage** to share data between the OS X app and its Today widget (and to share data with the iOS version of Lister). Because this functionality requires entitlements, you must have a paid Mac Developer Program account in order to build and run Lister for OS X.

Lister's Xcode project also requires a small amount of setup before it can be built and run. This setup process involves three simple steps, which are described in more detail below:

1. Set the project's bundle identifier prefix.
2. Select your development team.
3. Create provisioning profiles.

Note: If you have both an iOS Developer Program account and a Mac Developer Program account, follow the setup instructions in *iOS and Watch Quick Start* before following the instructions below.

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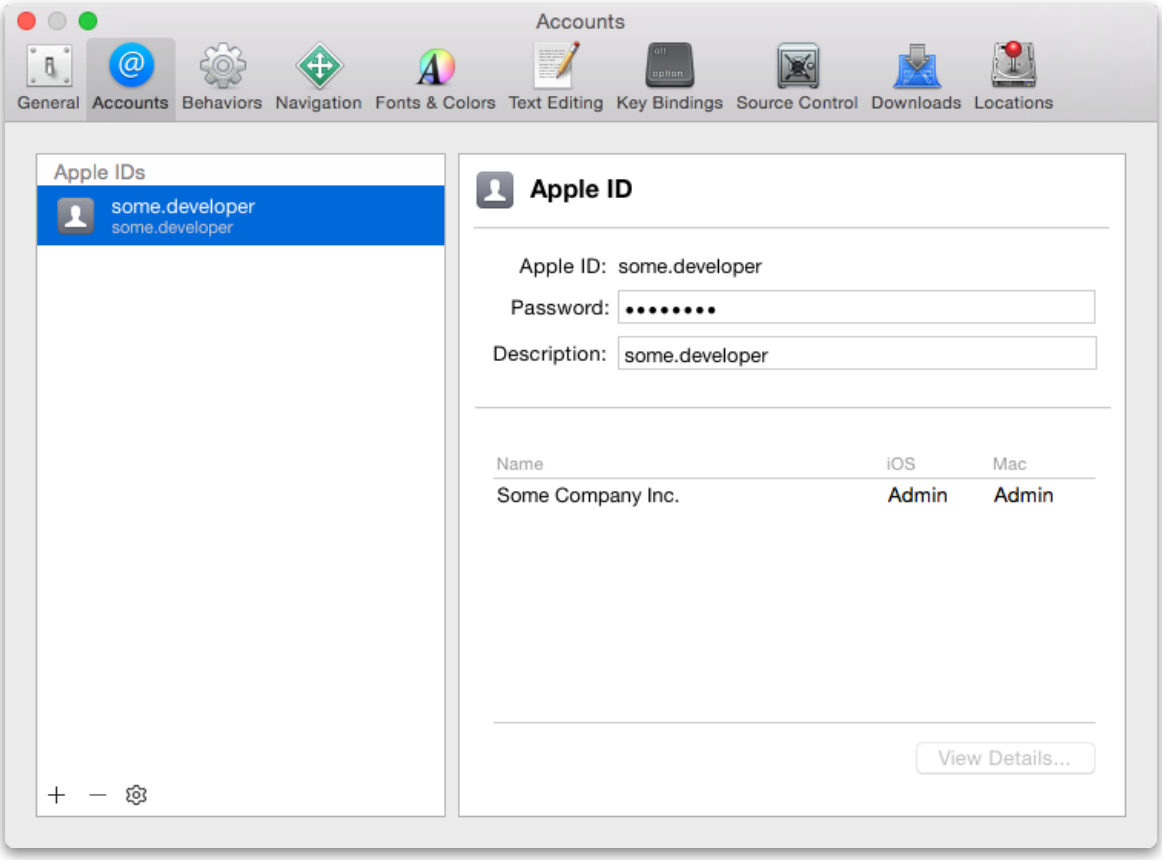
Swift and Objective-C

The Lister project is provided in a Swift version and an Objective-C version. Both versions of the project have exactly the same functionality, and you can use either version of the project with the Quick Start instructions below.

Note: If you explore both the Swift and Objective-C versions of the project, you will need to follow the setup process in full for both versions.

Before You Start

Before you start, make sure that your Mac Developer Program Apple ID is listed in Xcode's Preferences under the Accounts tab. Additionally, make sure that you have a development certificate and private key for your Mac Developer Program account installed on your development Mac.



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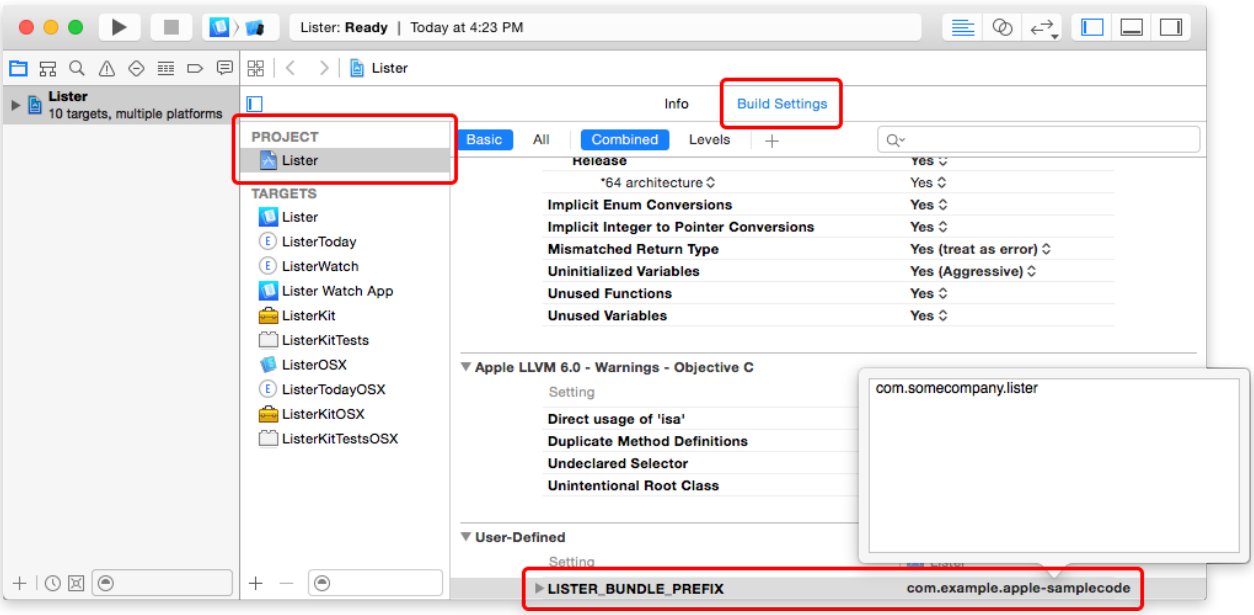
Set the Project's Bundle Identifier Prefix

Lister shares a common bundle identifier prefix across all of its targets, with a default value of `com.example.apple-samplecode`. This prefix is also used to create a single iCloud Documents identifier for all of Lister's targets.

You must change this bundle identifier prefix before using Lister with your own Mac Developer Program account. To change the prefix:

1. Select the Lister project in the Xcode project navigator.
2. If the Projects and Targets list is not visible, click the Show Projects and Targets icon ( ) .
3. Select the Lister project in the Projects and Targets list.
4. Select the Build Settings tab and scroll to the bottom of the list.
5. In the User-Defined section, double-click on `com.example.apple-samplecode` to edit the `LISTER_BUNDLE_PREFIX` value.
6. Change this prefix to a globally unique reverse DNS string for your own organization's name, such as `com.somecompany.lister`.



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Select Your Development Team

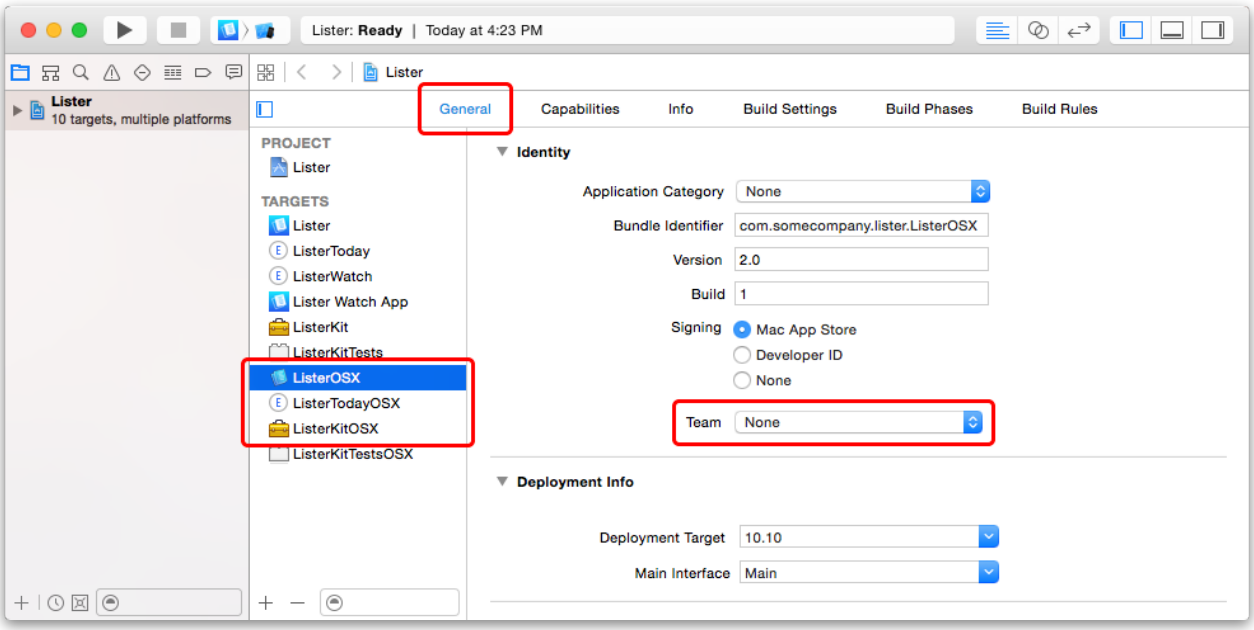
Select your paid Mac Developer Program account as the development team for each of the three targets below:

- **ListerOSX** – the Lister app for OS X
- **ListerTodayOSX** – the Lister Today widget for OS X
- **ListerKitOSX** – a supporting framework for the OS X app and its Today widget

You do not need to set a development team for the **ListerKitTestsOSX** target.

To set your development team, first select the Lister project in the Xcode project navigator. Then, for each of the three targets listed above:

1. Select the target in the Targets list.
2. Select the General tab in the right-hand pane.
3. In the Identity section, open the Team popup menu and select your Mac Developer Program team name from the list.



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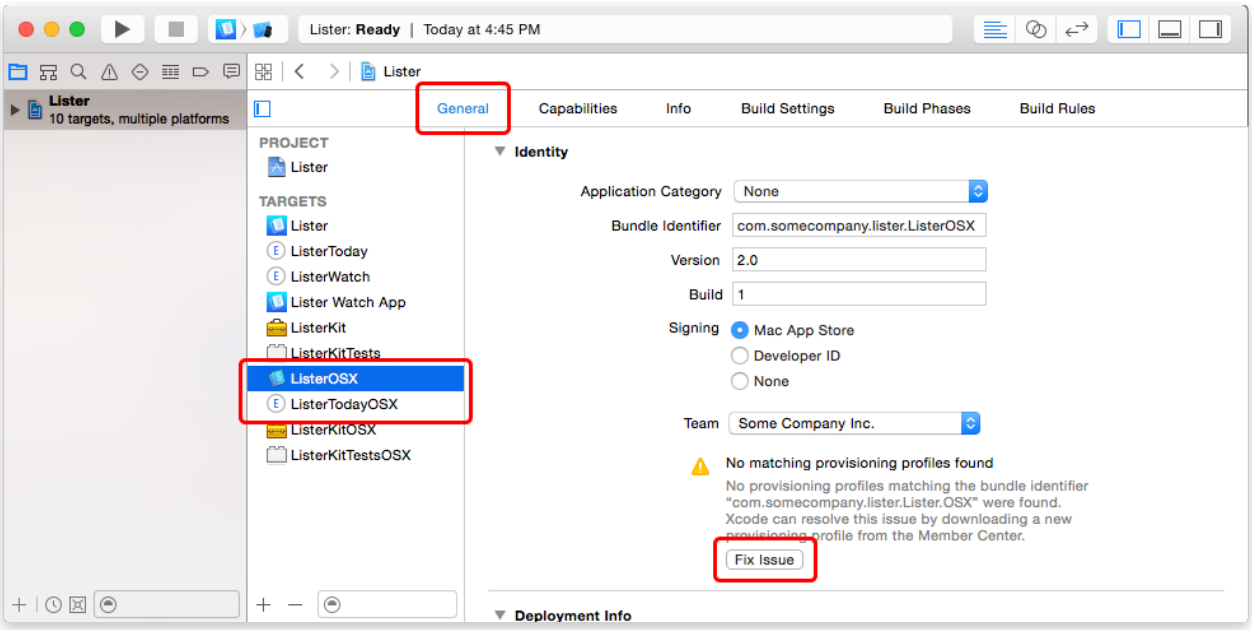
Create Provisioning Profiles

Create a provisioning profile for both of the targets below:

- **ListerOSX**
- **ListerTodayOSX**

Xcode helps you to create these provisioning profiles. First, select the Lister project in the Xcode project navigator. Then, for both of the targets listed above:

1. Select the target in the Targets list.
2. Select the General tab in the right-hand pane.
3. In the Identity section, under the Team popup menu, click Fix Issue.
4. Xcode will download a new provisioning profile for that target. (This process may take up to 30 seconds per target.)



Note: You must create a provisioning profile for both targets before you build and run either target.

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Building and Running the iOS and OS X Versions of Lister on the Same Mac

If you have both an iOS Developer Program account and a Mac Developer Program account, you can build and run all of the Lister targets on a single development Mac. However, please note that whenever you download a provisioning profile for an OS X target using the method described above, any iOS provisioning profiles you have already downloaded for Lister will be removed. You will need to reinstate all of the iOS provisioning profiles before you next build and run any of the iOS targets.

The same is also true in reverse. Whenever you download a provisioning profile for an iOS target using Xcode's "Fix Issue" button, any OS X provisioning profiles for Lister will be removed. You will need to reinstate both of the OS X provisioning profiles before you can build and run any of the OS X targets.

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Set Up iCloud

Lister for OS X uses **iCloud Document Storage** to share lists and to-do items between its OS X app and Today widget. iCloud Document Storage also enables Lister for OS X to share its list documents with the iOS version of Lister.

Note: Unlike the iOS version of Lister, the OS X version does not support App Groups to share content with its Today widget. You must use iCloud with the OS X version of Lister if you want to share a Today list document with the OS X Today widget.

iCloud Document Storage

To use Lister with iCloud Document Storage, sign in to iCloud on your development Mac before you first build and run the Lister OS X app.

If you are logged in to iCloud when you first build and run Lister for OS X, the app automatically creates a Today list in its iCloud container. This Today list is then used by the OS X Today widget to provide to-do items for the Today widget's UI.

If you do *not* log in to iCloud on your development Mac before first building and running the Lister OS X app, you can still use the OS X app to edit list documents locally on your Mac. You will not, however, be able to use the Lister Today widget.

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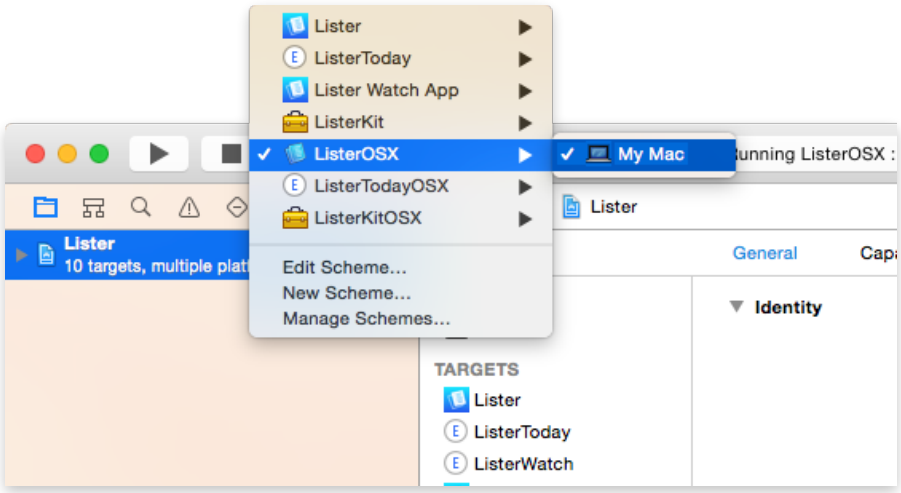
Build and Run

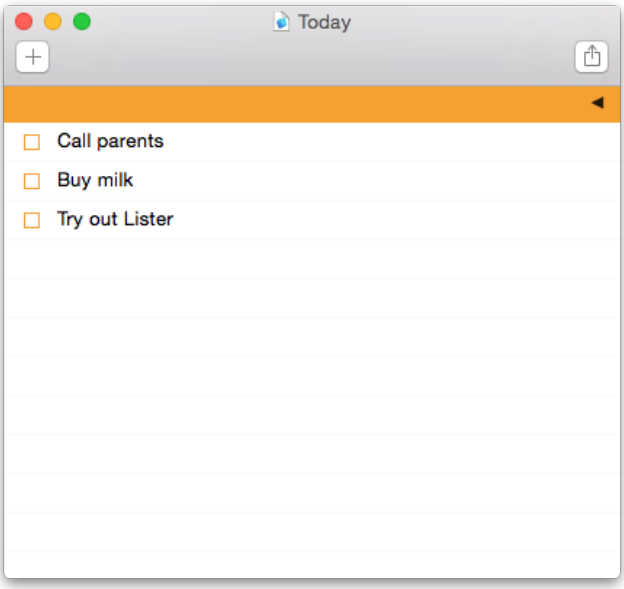
You are now ready to build and run the Lister OS X app and Today widget.

Build and Run the OS X App

1. In Xcode, select the ListerOSX scheme from the Scheme menu and select My Mac.



2. Press Command-R to build and run the OS X app on your Mac. If you are logged in to iCloud, the app displays a default Today list.



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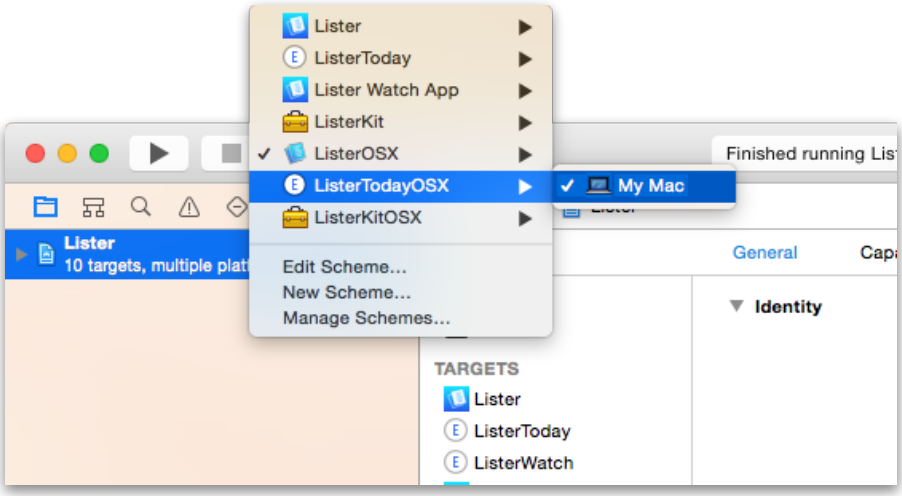
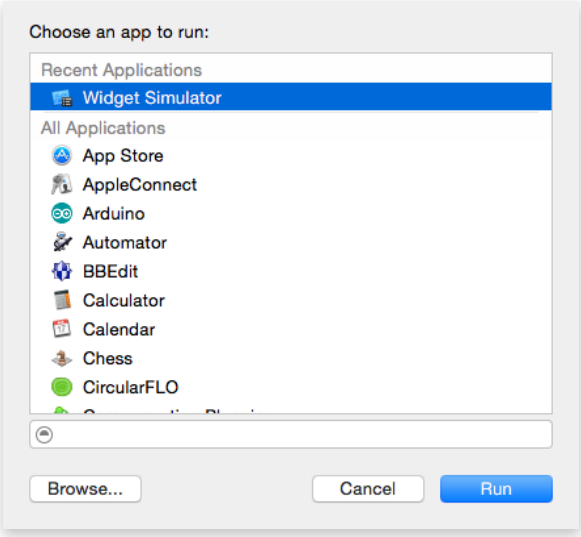
Build and Run the Today Widget

1. In Xcode, choose the ListerTodayOSX scheme from the Scheme menu and select My Mac.



2. Press Command-R to build and run the OS X Today widget on your Mac.
3. In the “Choose an app to run:” sheet, choose Widget Simulator and click Run.



4. The Widget Simulator opens and displays the Lister OS X Today widget.

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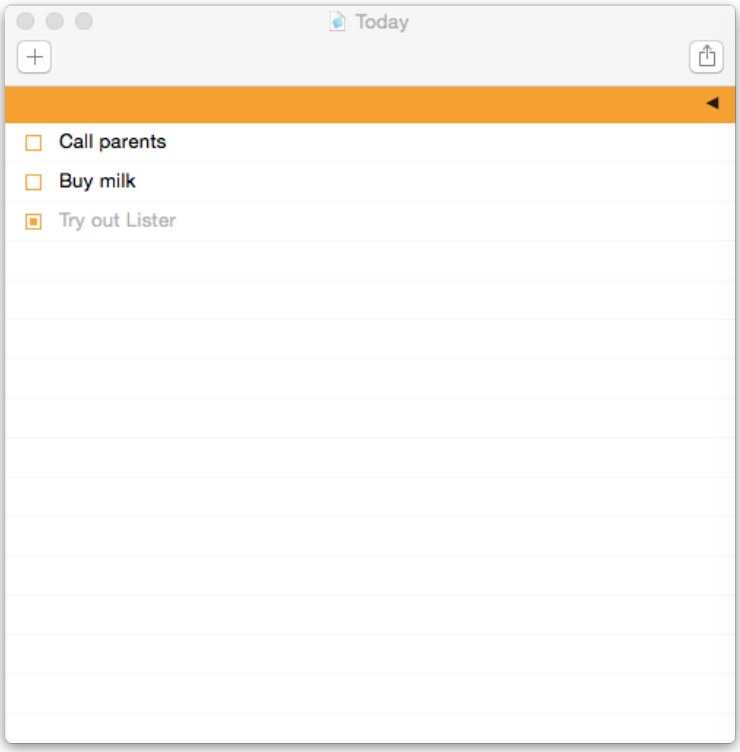
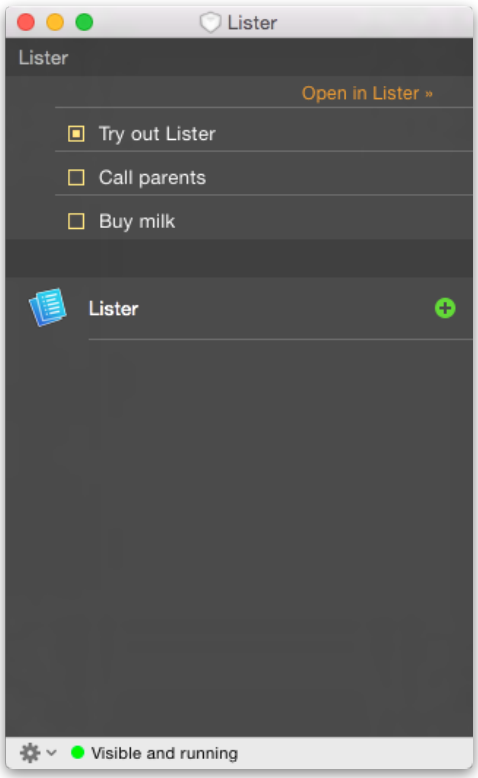
5. Checking an item in the OS X Today widget's UI completes that item in the Today list in the OS X app.





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Further Reading

For more information about managing Developer Program accounts and adding accounts to Xcode, see *Managing Accounts* in the App Distribution Guide.

For more information about bundle identifiers, team settings, and provisioning profiles, see *Configuring Your Xcode Project For Distribution* in the App Distribution Guide.

Lister's default project settings automatically specify iCloud Document Storage and App Group capabilities for you when you create the project's provisioning profiles. To learn more about setting up custom iCloud and App Group capabilities for your own apps, see *Adding Capabilities* in the App Distribution Guide.

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