

Jessie Berlin, Safari and WebKit Engineer

Desktop-class browsing on iPad

Improvements to Safari Extensions

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JAMVIRE BEATS—DAILY



06.03.19

Listen to DeJuan Turner's new album Deep Time

DeJuan Turner continues to explore the funk roots of hip hop with his LP release of *Deep Time*. Layers of dense beats and fiery lyrics feature guest appearances by CC Wan and Eva "San Jose" Perez.

MUSIC / HIP HOP

LATEST



Tomiwa Alibi shares new singles "Trinket" and "Dancing Bird"



Eva "San Jose" Perez opens US tour with sold out West Coast dates



Hit producer Tejo Dama to launch new label featuring CoCo Weir, Farrah Tam



Jason Comet pulls out all the moves in latest video for "You Ain't Seen Nuthin"



Andrew Droog drops solo album and the critics can't stop obsessing about it



Jon-Jay Montemayor returns with new single "2Tonight"



The top 10 latest, greatest rap songs right now









Daily

New Releases

Tours

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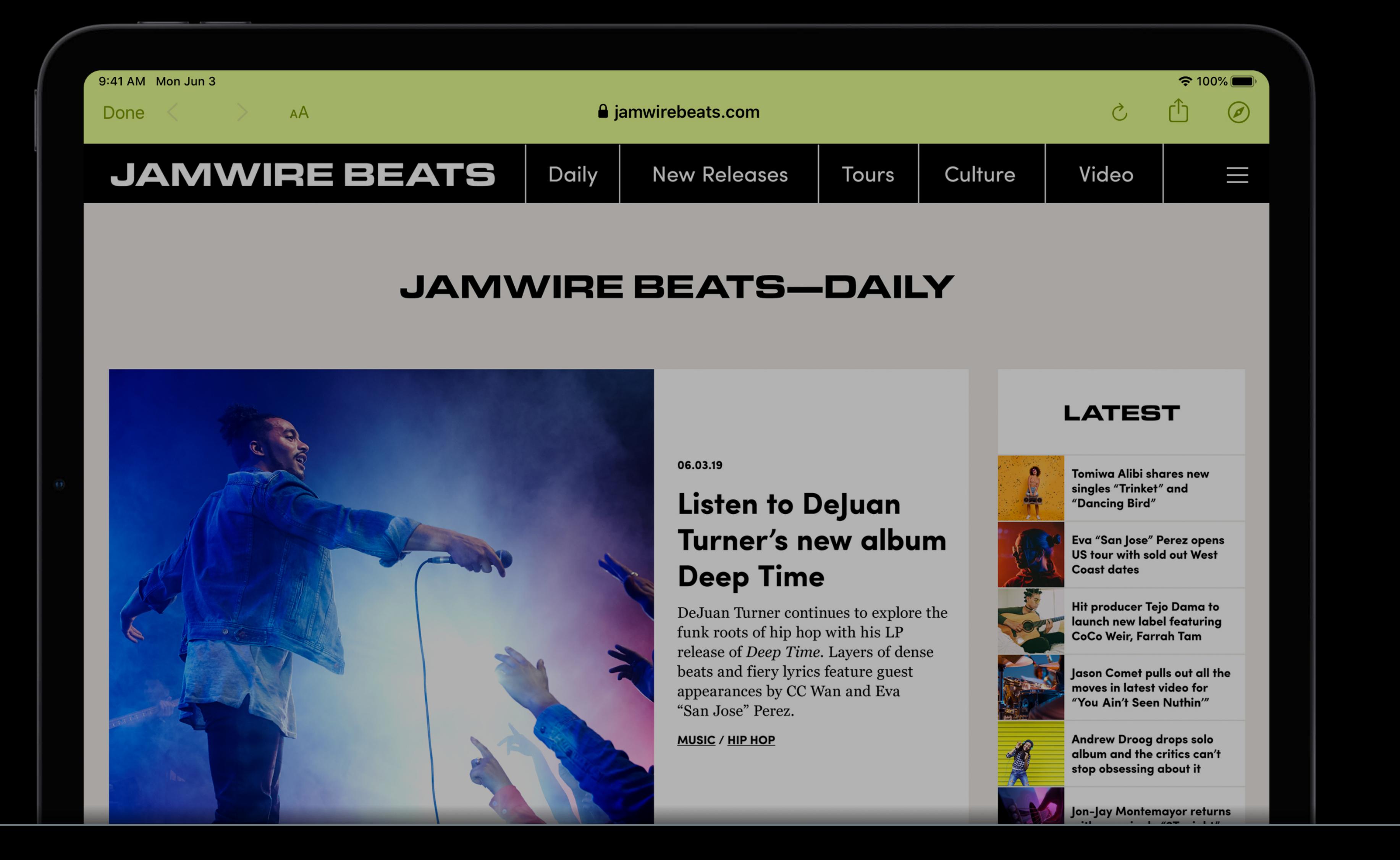
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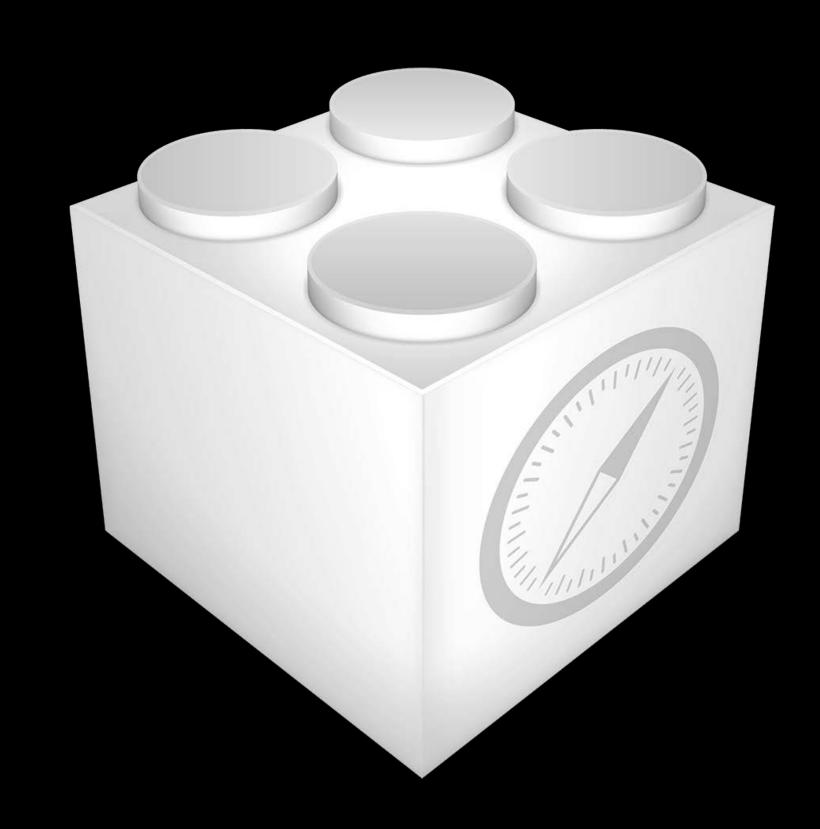


Desktop-class browsing on iPad

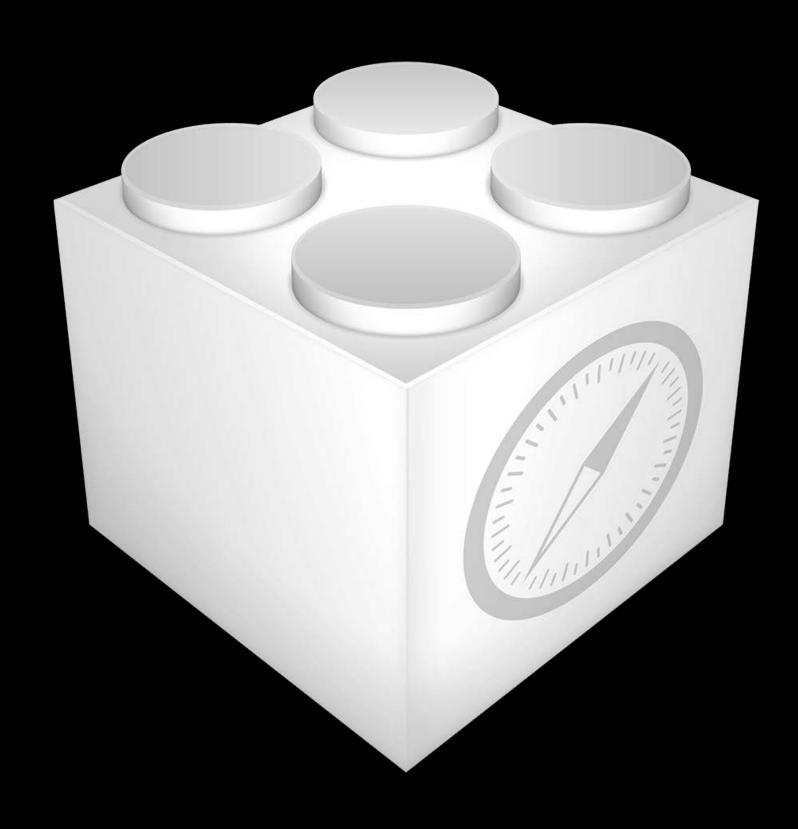
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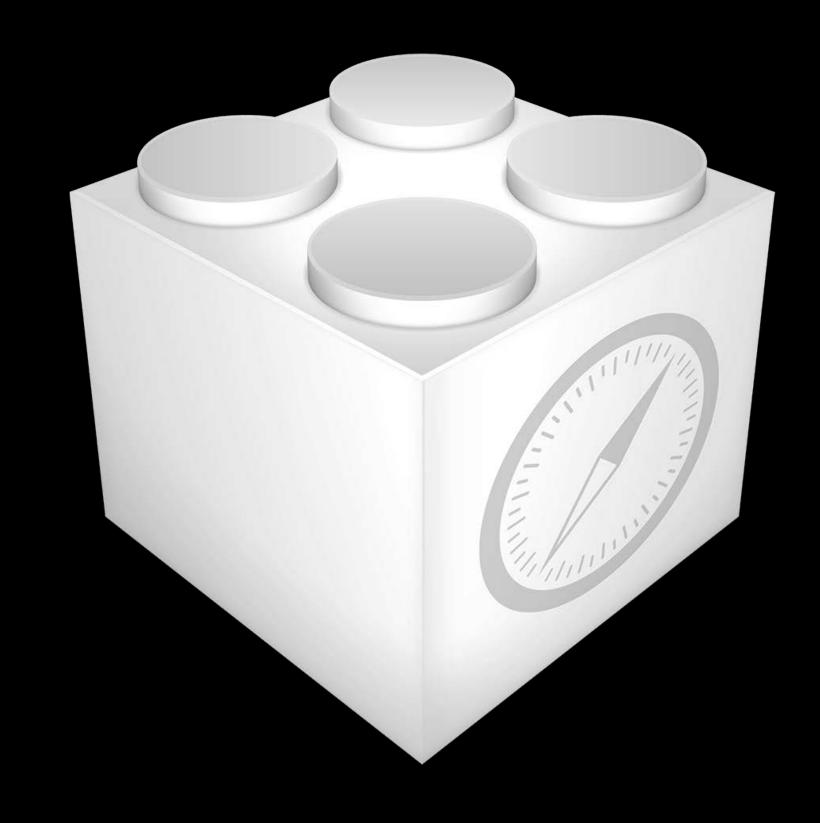
Legacy Safari Extensions



Legacy Safari Extensions



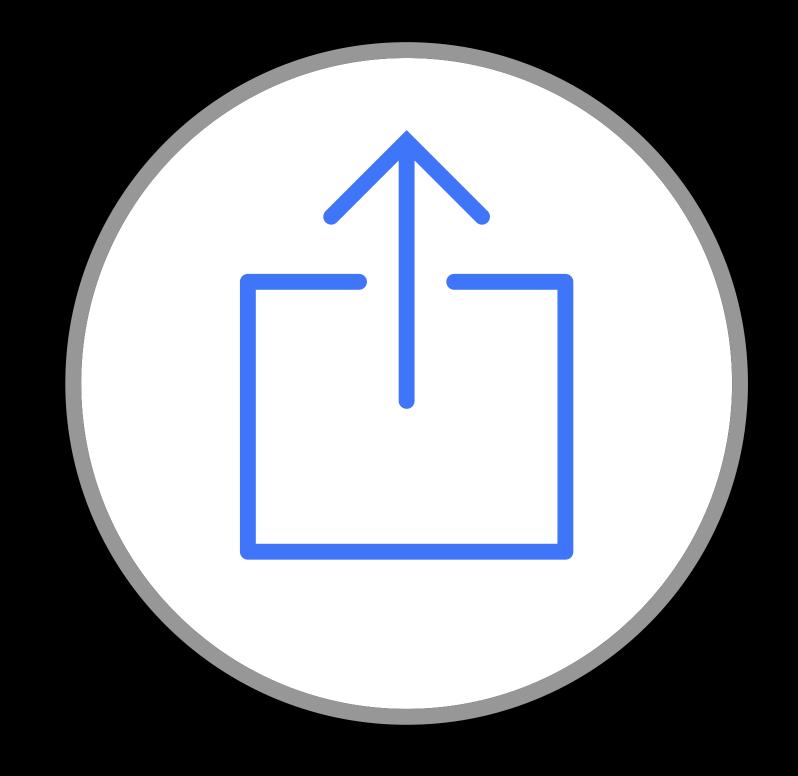
Content Blockers



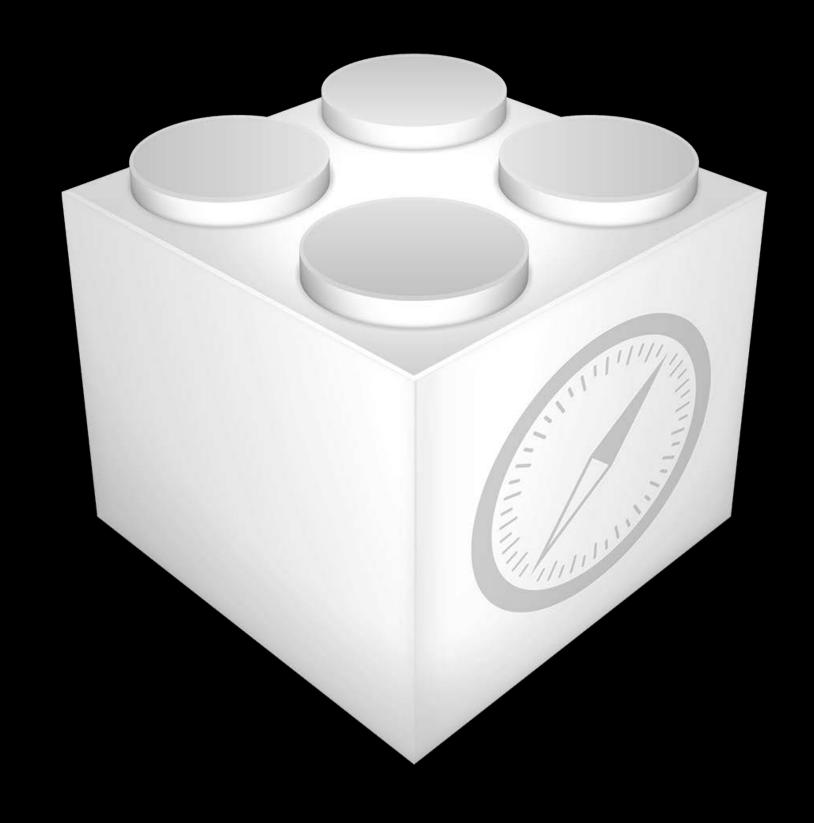
Legacy Safari Extensions



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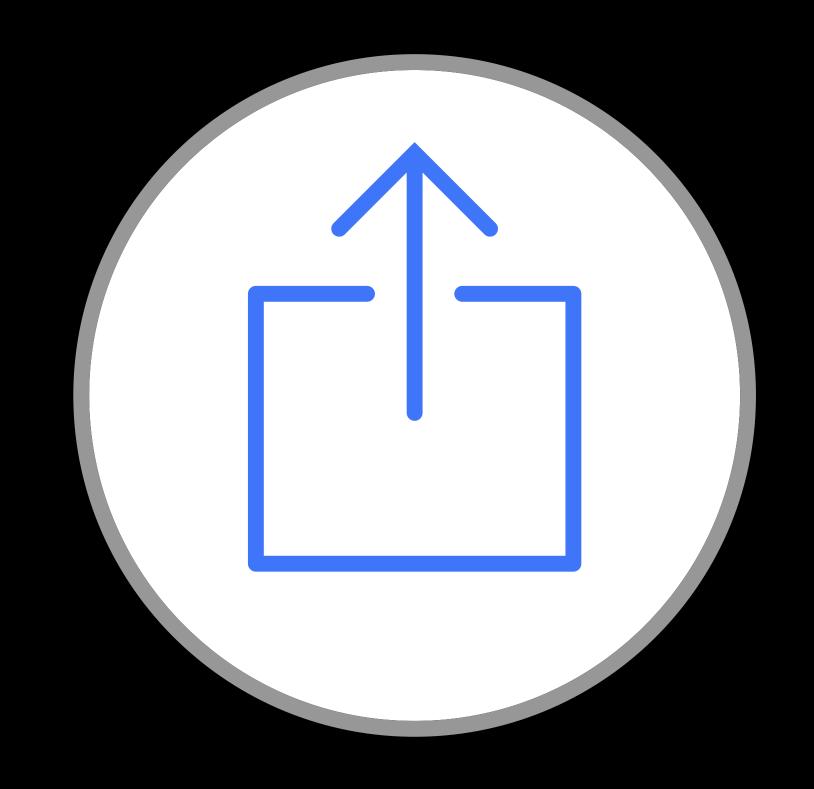
Share Extensions



Legacy Safari Extensions



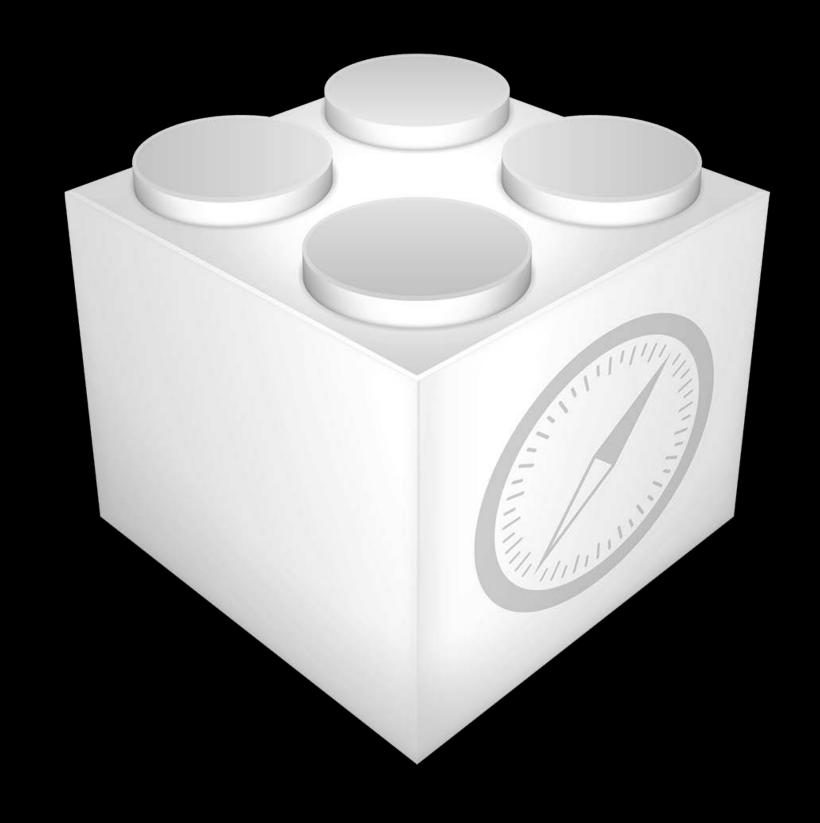
Content Blockers



Share Extensions



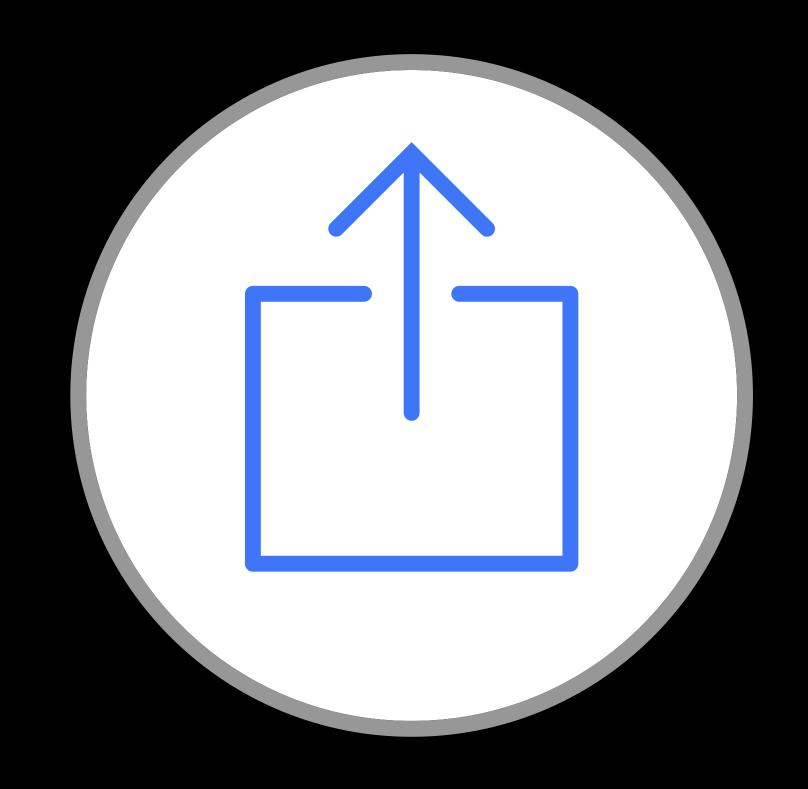
Safari App Extensions



Legacy Safari Extensions



Content Blockers



Share Extensions



Safari App Extensions



Content Blockers



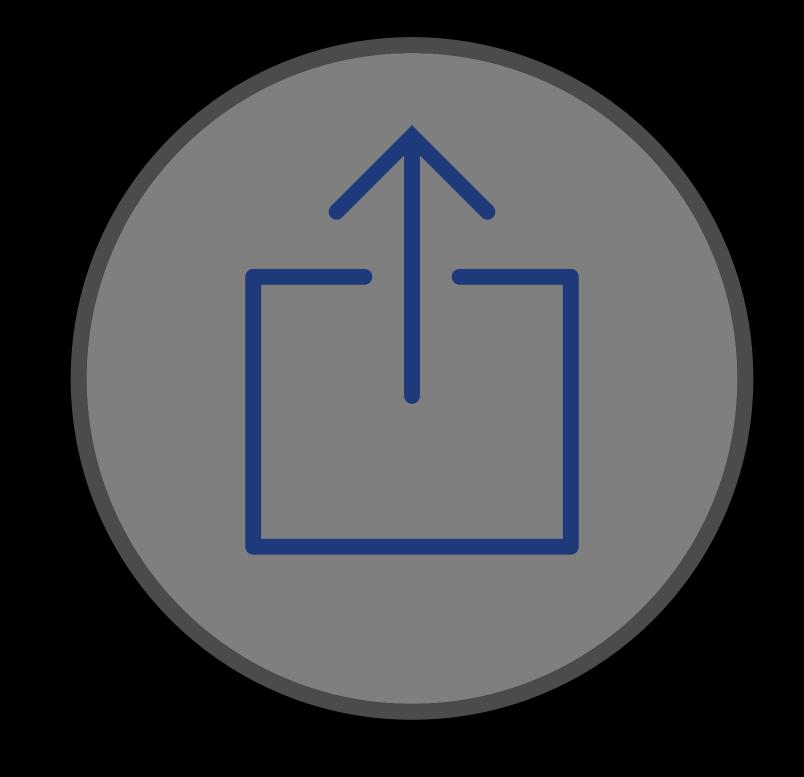
Share Extensions



Safari App Extensions



Content Blockers

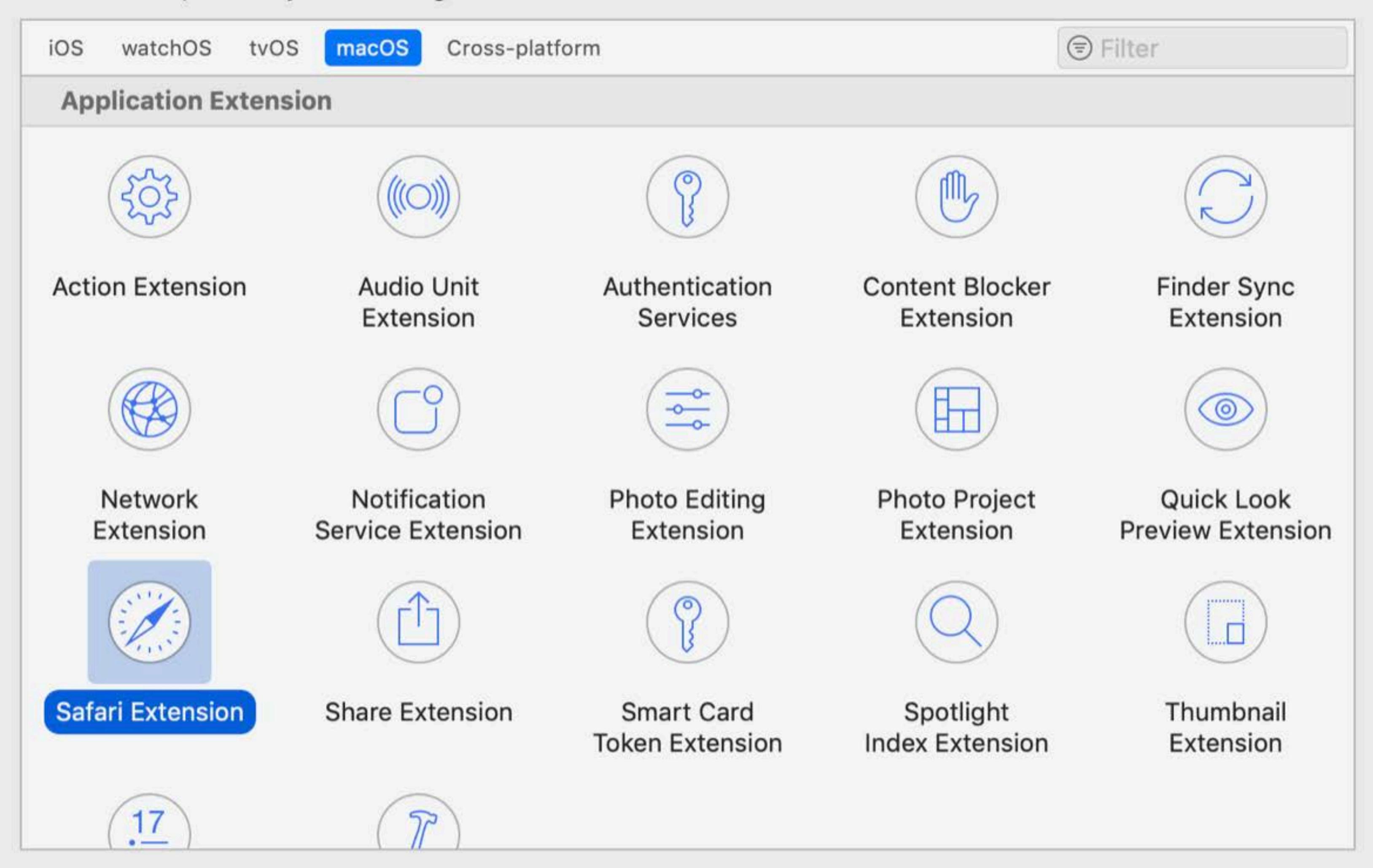


Share Extensions



Safari App Extensions

Choose a template for your new target:









Safari Extensions allow Mac users to explore the web exactly the way you want. Find helpful information about a web page, display news headlines, or quickly access and share content to your favorite app and services. To get started, choose Preferences from the Safari menu, select the Extensions tab, and click the checkbox to turn on the extension.



Todoist: Organize your life

Assign errands & achiev...

GET

In-App Purchases



1Password 7 -Password Manager

Generate & keep passw...

GET

In-App Purchases



Ghostery Lite

Fast, simple, safe browsing

GET



Mate: Universal Tab Translator

Translate in Safari & me...

\$29.99



Ebates Rakuten Cash Back

Lifestyle

GET



NewsGuard

News

GET



Inboard - Image Organizer

Graphics & Design

\$19.99



MarsEdit 4

Streamlined blog publishing

GET

In-App Purchases



Blogo - Powerful blog editor

Powerful blog editor

GET

In-App Purchases



1Blocker: Faster & Safer Web
Privacy protection, ad b...



AdBlock for Safari Productivity



Raindrop.io for Safari

All in One Bookmark Manager

New Safari App Extension APIs

Windows and Tabs

Opening full page web content



Navigate directly from the app extension process

Access to the baseURI in the app extension process

```
// Available in Safari 12.1
SFSafariExtension.getBaseURI { baseURI in
    guard let baseURI = baseURI else { return }
    tab.navigate(to: baseURI.appendingPathComponent("full_page_content.html"))
}
```

Windows and Tabs

Accessing all windows and tabs



Iterate through all open windows and tabs

```
// Available in Safari 12.1
SFSafariApplication.getAllWindows { windows in
    for window in windows {
        window.getAllTabs { tabs in /* ... */ }
    }
}
```

Windows and Tabs

Accessing all windows and tabs



Iterate through all open windows and tabs

Access containing windows and tabs

```
// Available in Safari 12.1
SFSafariApplication.getAllWindows { windows in
    for window in windows {
        window.getAllTabs { tabs in /* ... */ }
    }
}
page.getContainingTab { tab in
    tab.getContainingWindow { window in /* ... */ })
}
```

Screensnots



Get the visible contents of a page

```
// Available in Safari 12.1
page.getScreenshotOfVisibleArea { image in
    // Image is the visible contents of the page.
}
```

Popovers



Programmatically show and dismiss

```
// Available in Safari 12.1
window.getToolbarItem { toolbarItem in
        toolbarItem?.showPopover()
}

// From within SFSafariExtensionViewController
self.dismissPopover();
```

Page Navigation Notifications



Delegate method called on navigation

```
// Added in Safari 13
func page(_ page: SFSafariPage, willNavigateTo url: URL?) {
    // Called for main navigations and redirects
}
```

Improvements for Content Blockers

Content Blocking Notifications



Safari App Extension Info.plist

Content Blocking Notifications



Safari App Extension Info.plist

Called when a resource is blocked



Extending your App with Safari App Extensions

What's New in Safari Extensions

WWDC 2016

WWDC 2019



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WWDC 2016

WWDC 2019

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Links like this



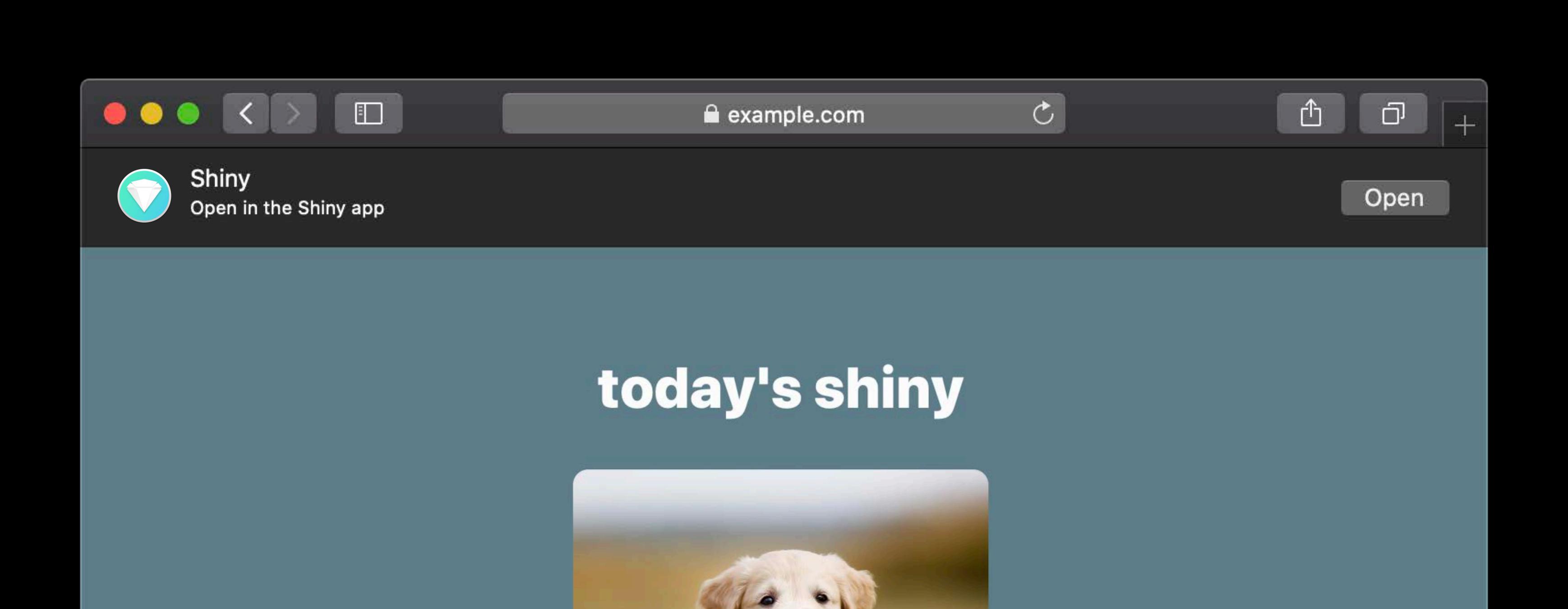
iPad Apps for Mac

SFSafariViewController

Custom in-app web browsers



Universal Links on macOS



Universal Links on macOS

What's New in Universal Links
WWDC 2019

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More Information

developer.apple.com/wwdc19/515

Safari, WebKit, and Authentication Services Lab	Thursday, 12:00
Introducing Desktop-class Browsing on iPad	WWDC 2019

ÓWWDC19