

# What's New in Safari View Controller

Session 225

Chelsea Pugh, Safari Engineer  
Louie Livon-Bemel, Safari Engineer

Browsing the web

Authenticating with a  
third-party service


Done

Apple Inc.

Apple

iPad

Buy



# iPad

Flat-out fun.

Starting at \$329.

<

>

Displaying web content

Displaying web content

Matching your app's style

Displaying web content

Matching your app's style

iOS 11 improvements

Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller



Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller

# Displaying Web Content

## SFSafariViewController



# Displaying Web Content

SFSafariViewController

Standard features already implemented



# Displaying Web Content

SFSafariViewController

Standard features already implemented

Present an in-app web browser without  
the work



# Displaying Web Content

SFSafariViewController

Standard features already implemented

Present an in-app web browser without the work

Easily log users in to third-party services





# Displaying Web Content

WKWebView



# Displaying Web Content

WKWebView

Manipulate the DOM



# Displaying Web Content

WKWebView

Manipulate the DOM

Customize navigations





# Displaying Web Content

WKWebView

Manipulate the DOM

Customize navigations

Add your own UI



# Safari View Controller in depth

In-app web browsing made easy

Secure browsing experience









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# WebKit

Open Source Web Browser Engine



WebKit  
Downloads  
Try out the latest  
web technologies in  
WebKit.





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example.com



## Deceptive Website Warning

This website may try to trick you into doing something dangerous, like installing software or disclosing personal or financial information, like passwords, phone numbers, or credit cards.

[Show Details](#)

[Go Back](#)





# Features from Safari



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Please Sign In

chelsea

••••••••••••••••

[Forgot your Apple ID or Password?](#)

Sign In

Use your Apple ID for the following services:

- App Store
- iTunes Store
- iPhoto Print Products
- iCloud

[Don't have an Apple ID? Create one now.](#)

Cancel





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AA

# Release Notes for Safari Technology Preview 30

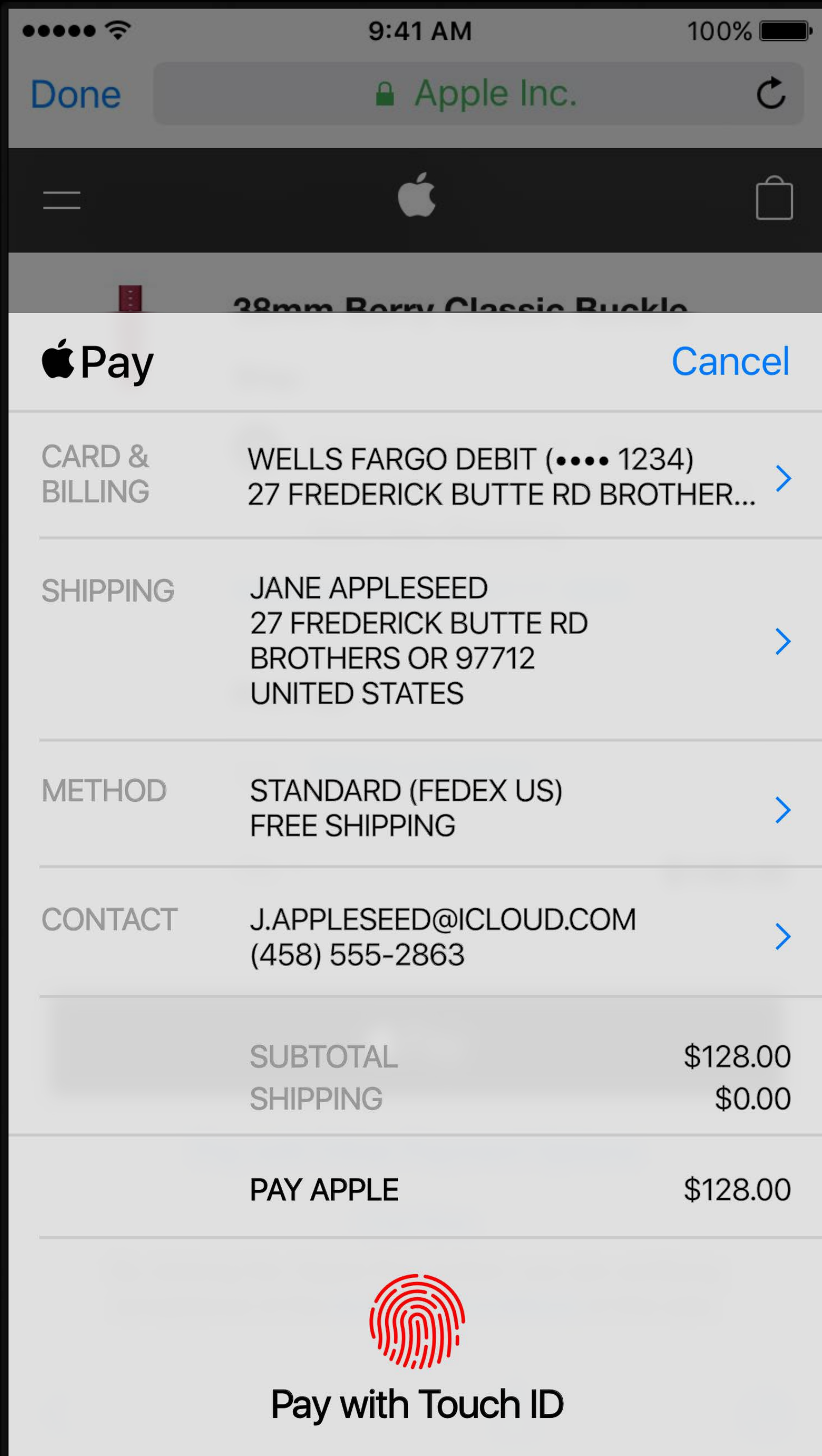
May 17, 2017 by Jon Davis @jonathandavis

**Safari Technology Preview** Release 30 is now **available for download** for macOS Sierra. If you already have Safari Technology Preview installed, you can update from the Mac App Store's Updates tab. This release covers WebKit revisions **215859-216643**.

## Web API

- Implemented Subresource Integrity (SRI) (**r216347**)
- Implemented X-Content-Type-Options:nosniff (**r215753**, **r216195**)









Content blocker extensions

Certificate warnings

Dynamic Type support

Split View

Contact AutoFill

Right-to-left support

Add to Reading List

Request desktop site

Content blocker extensions

Add to Bookmarks

Safe browsing

Find on Page

Password AutoFill

3D Touch

Apple Pay

Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller



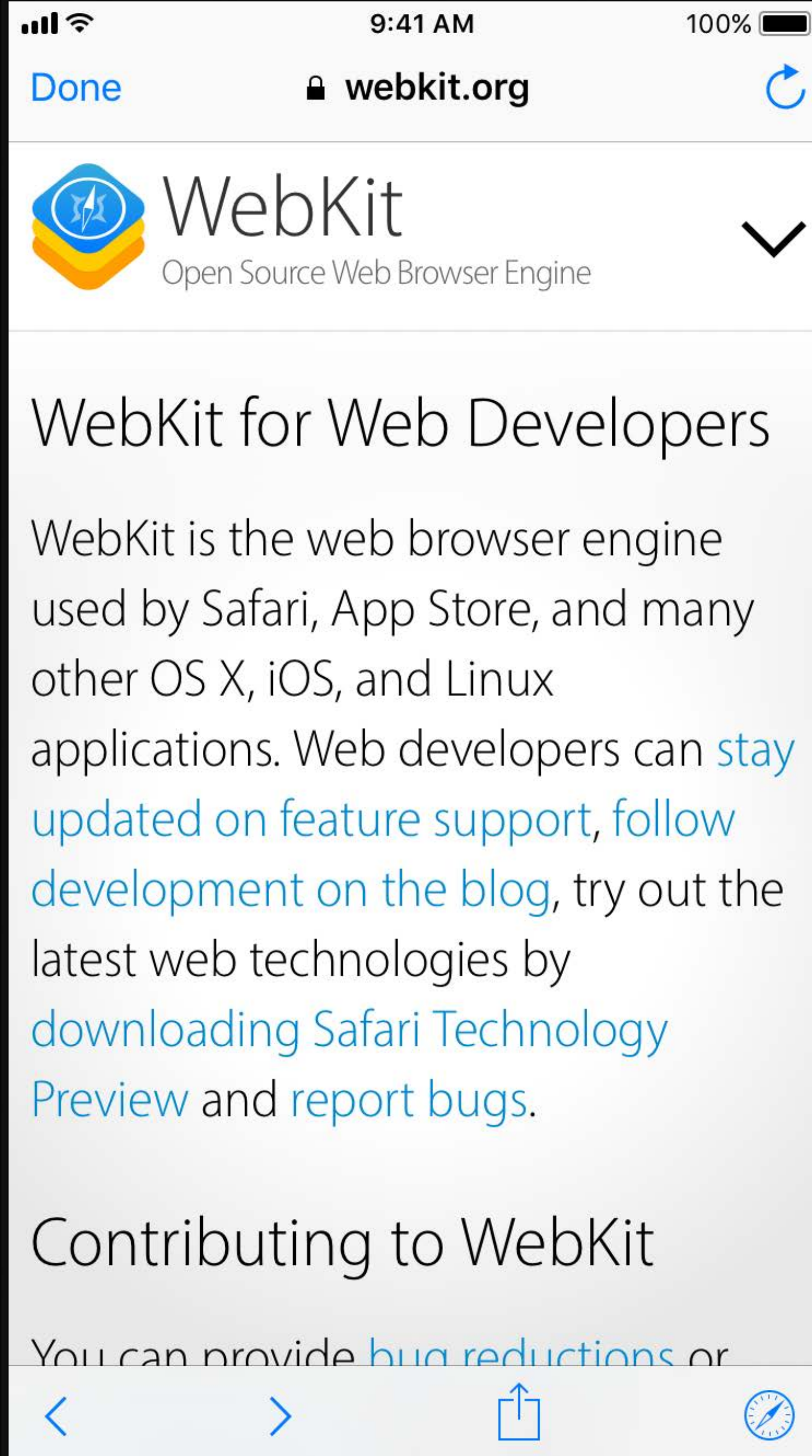
Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller

New look



NEW

NEW



Customizing color





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WebKit

Open Source Web Browser Engine



# Release Notes for Safari Technology Preview 31

May 31, 2017 by Jon Davis

[@jonathandavis](#)

[Safari Technology Preview](#) Release 31 is now [available for download](#) for macOS Sierra. If you already have Safari Technology Preview installed, you can update from the Mac App Store's





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WebKit

Open Source Web Browser Engine



# Release Notes for Safari Technology Preview 31

May 31, 2017 by Jon Davis

[@jonathandavis](#)

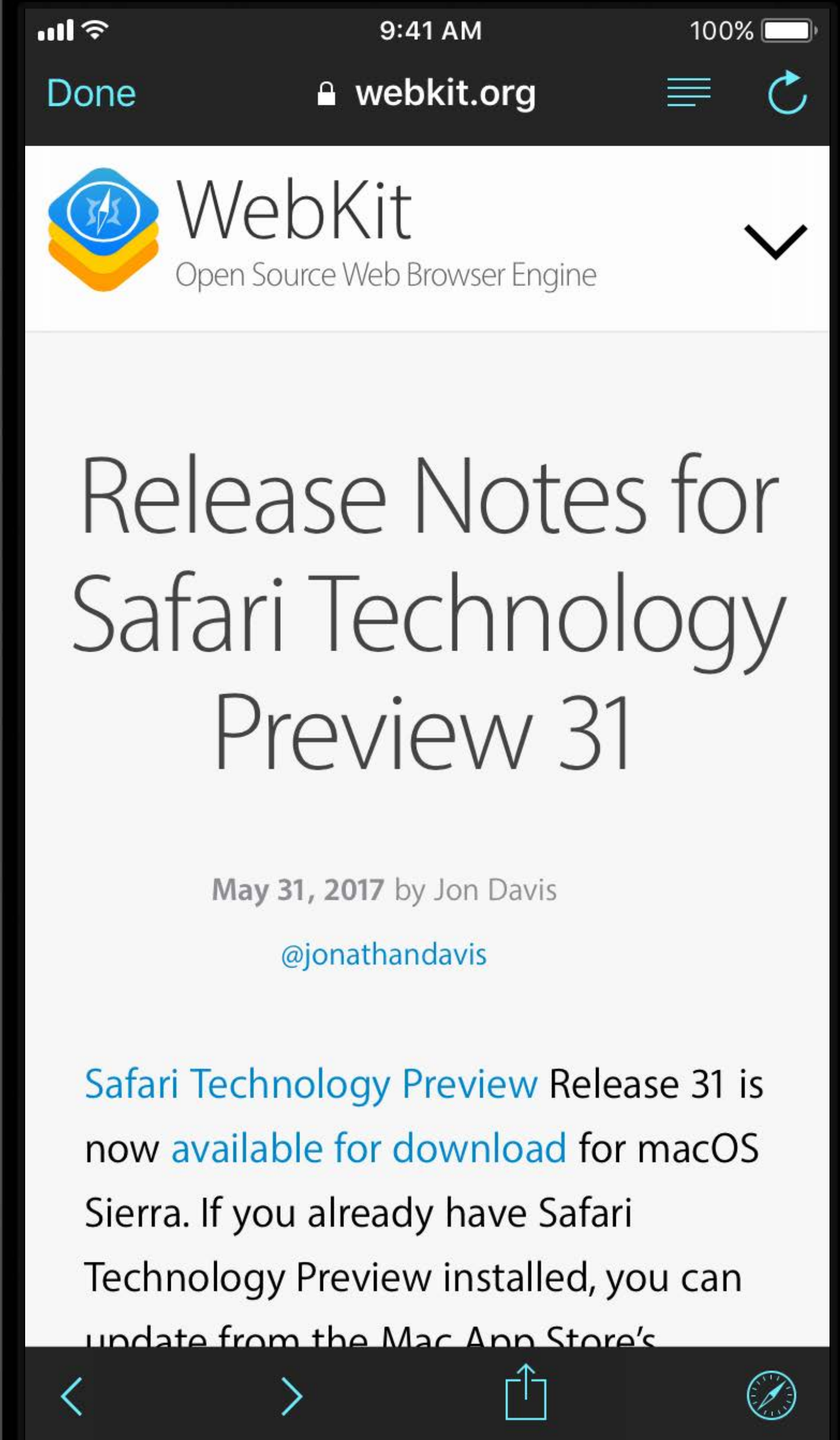
[Safari Technology Preview](#) Release 31 is now [available for download](#) for macOS Sierra. If you already have Safari Technology Preview installed, you can update from the Mac App Store's





# Customizing Bar and Tint Color

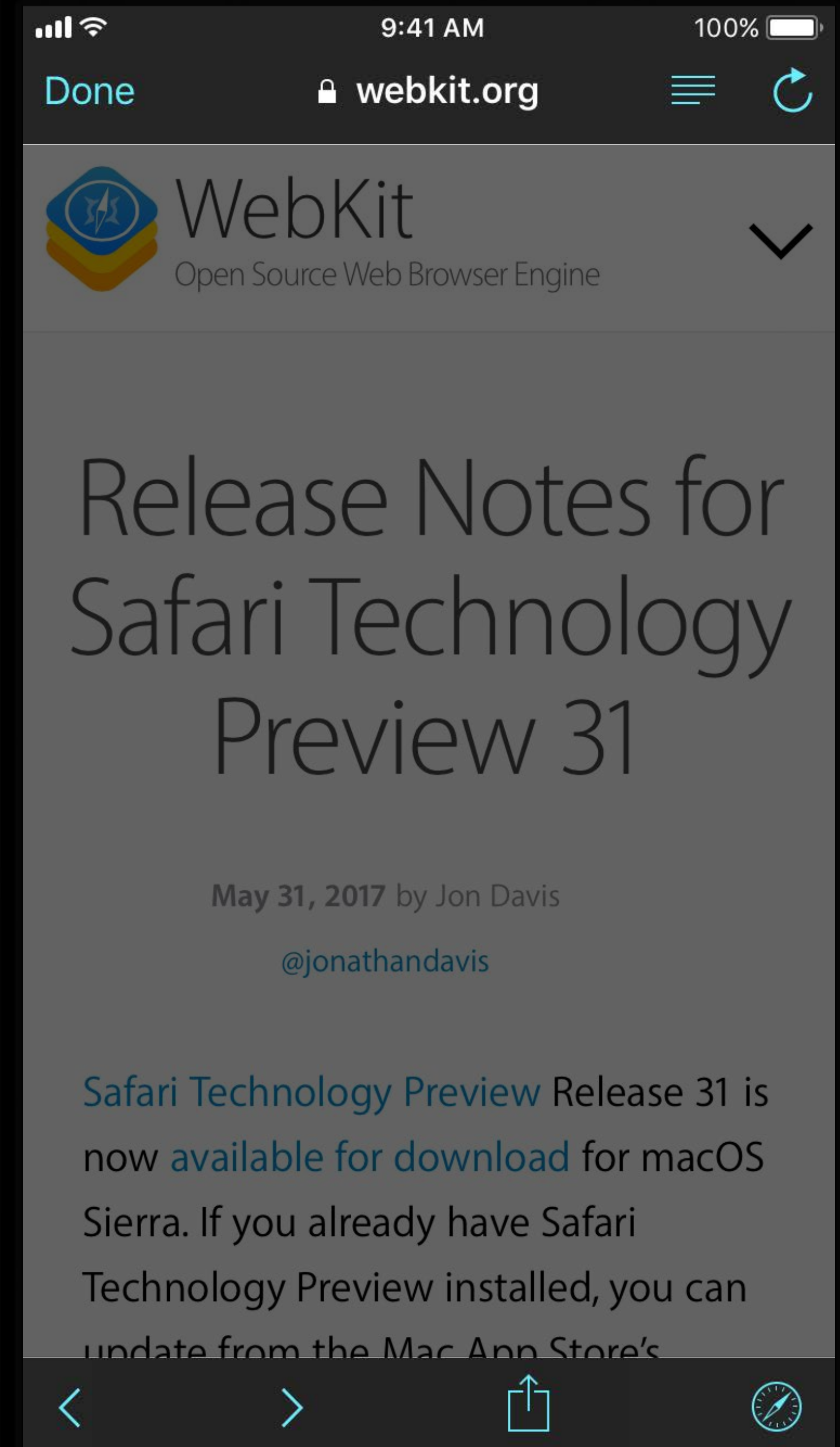
```
class SFSafariViewController : UIViewController {  
    var preferredBarTintColor: UIColor  
    var preferredControlTintColor: UIColor  
}
```





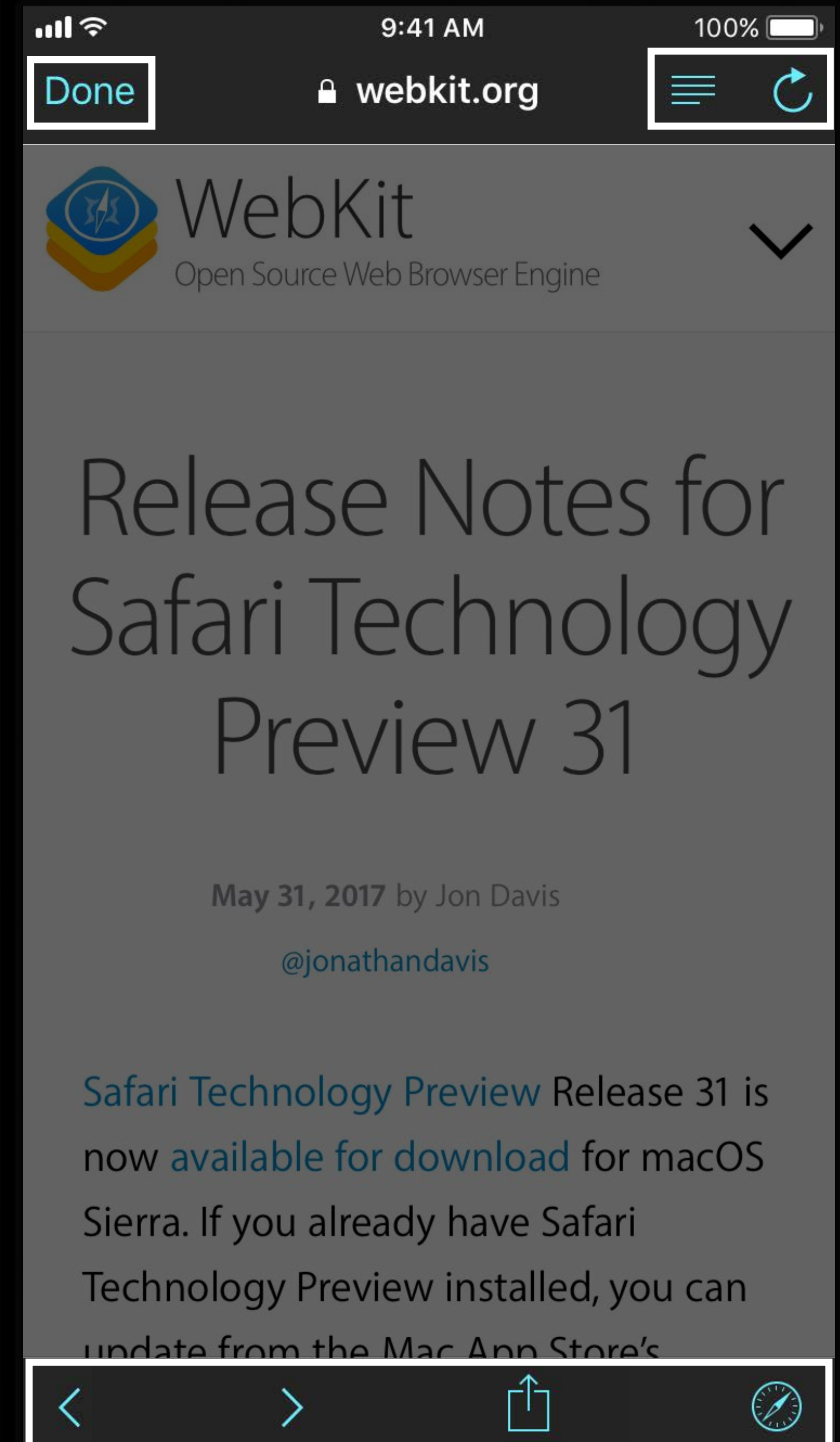
# Customizing Bar and Tint Color

```
class SFSafariViewController : UIViewController {  
    var preferredBarTintColor: UIColor  
    var preferredControlTintColor: UIColor  
}
```



# Customizing Bar and Tint Color

```
class SFSafariViewController : UIViewController {  
    var preferredBarTintColor: UIColor  
    var preferredControlTintColor: UIColor  
}
```



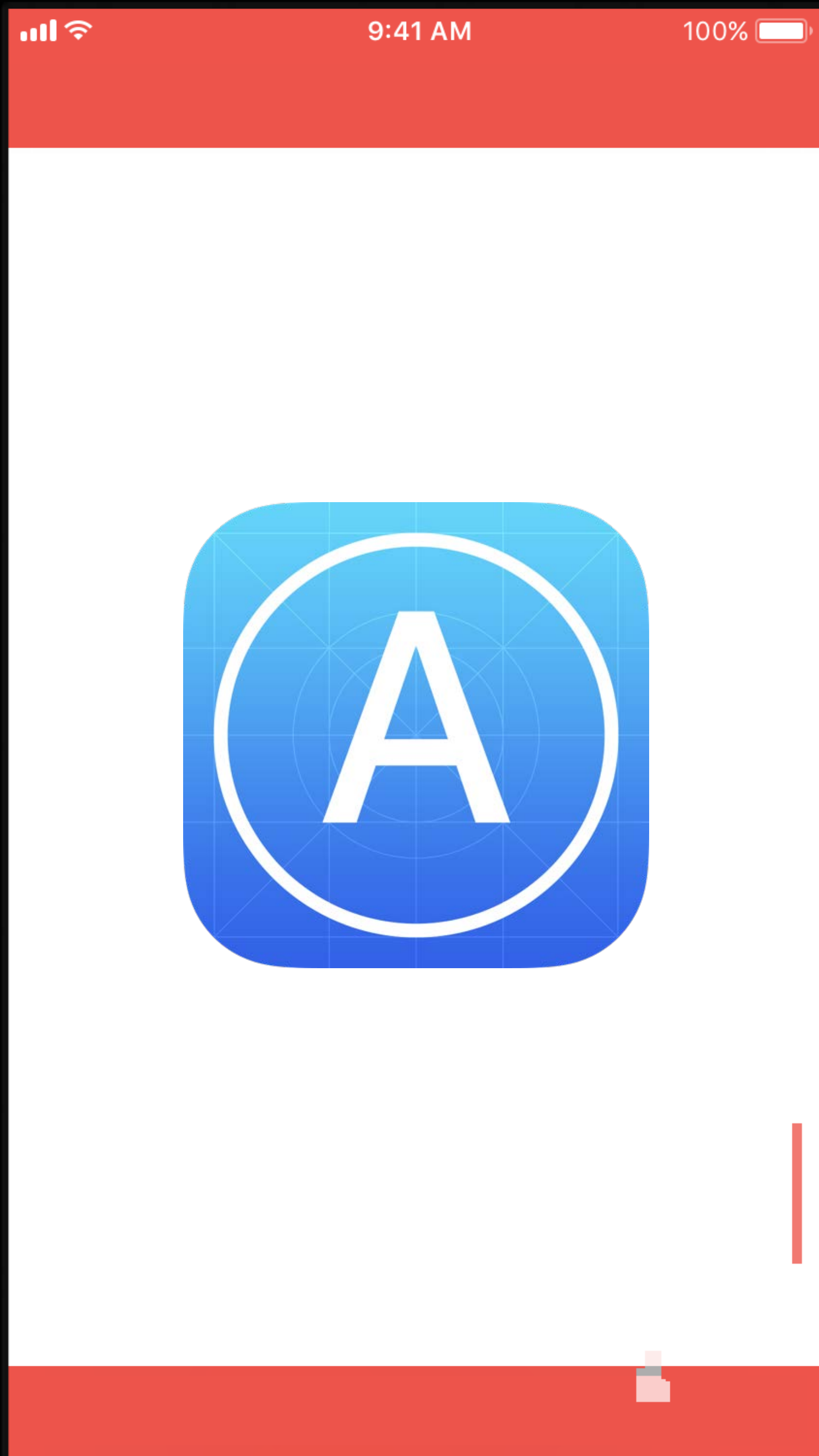


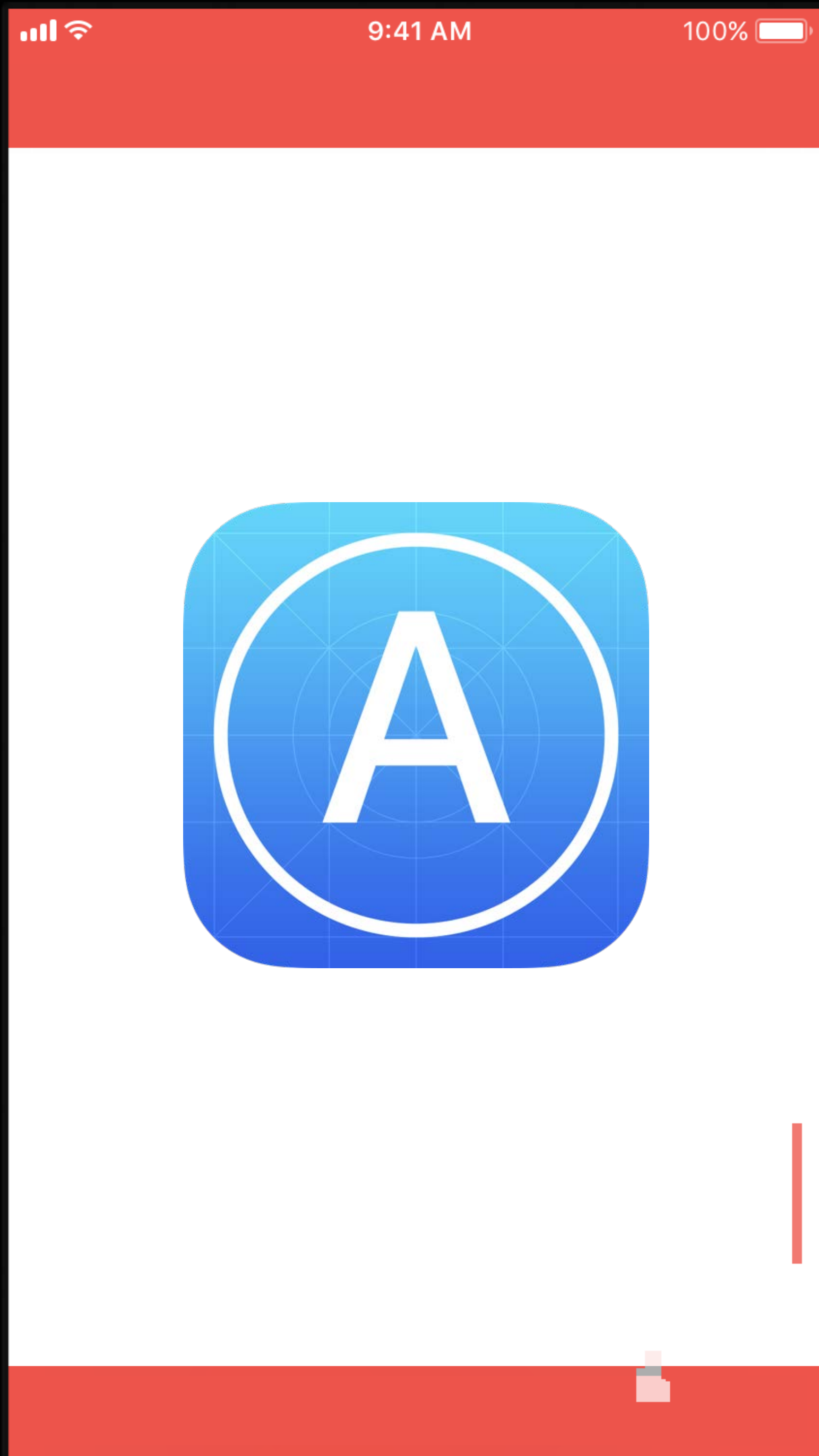
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***Demo***

Customizing color

Louie Livon-Bemel, Safari Engineer



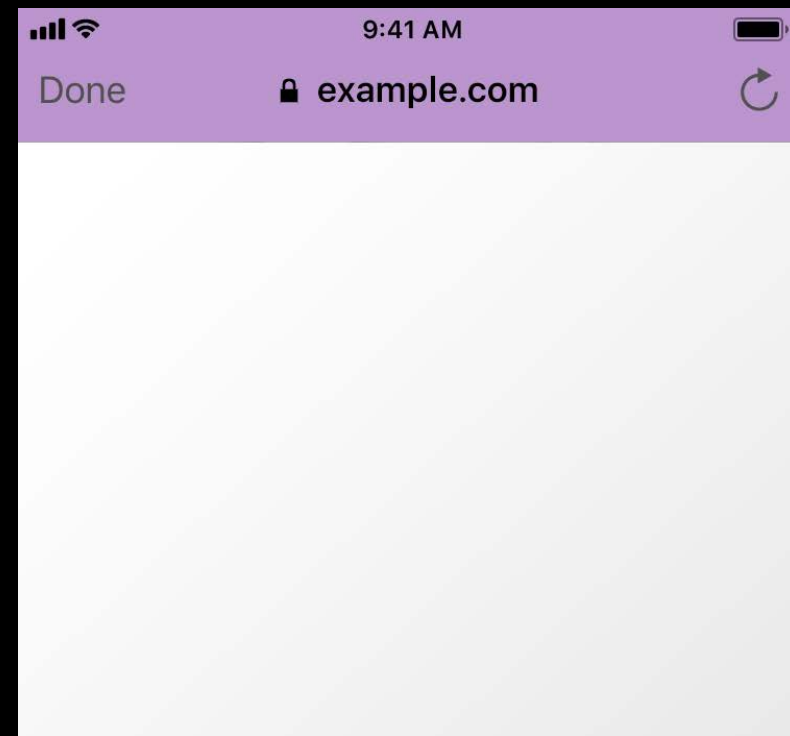
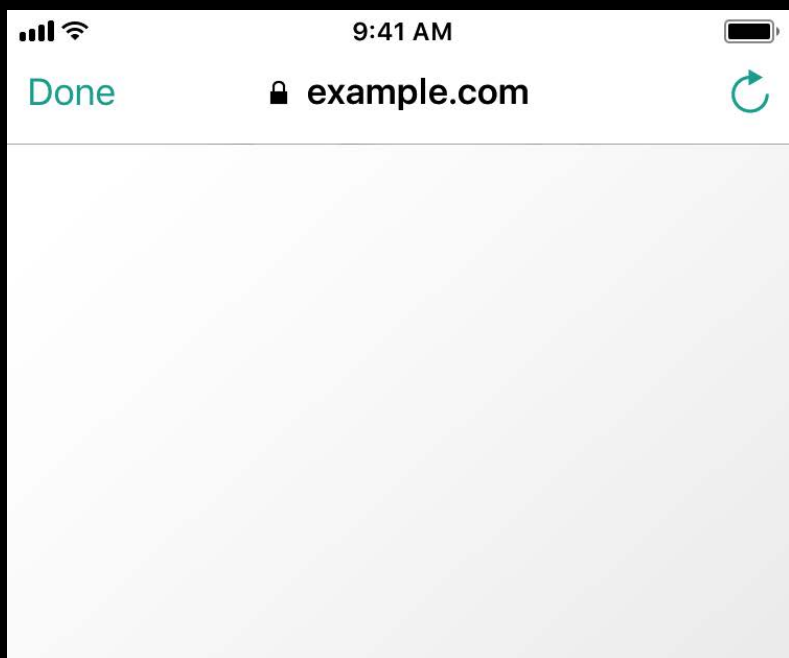
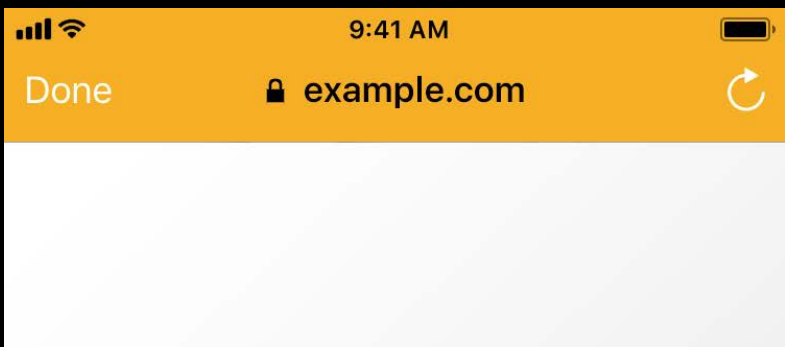
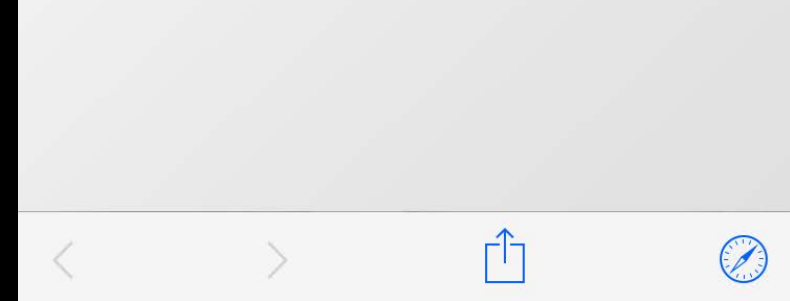
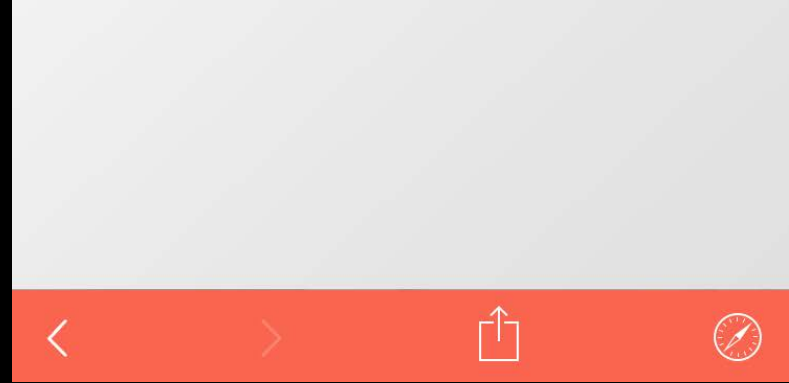
# HIDDEN GEMS PIZZA

ESTABLISHED 2015

ORDER NOW

Hidden Gems Pizza is the proud home of the Safari pizza, voted Greatest Potentially Fictional Slice of Pie in 2017! Come over to enjoy some delicious pizza with the family, or get some of the mouthwatering goodness delivered to you via SFTP.

We always use the freshest, most delicious ingredients on our pizzas -- none of that



Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller

Displaying web content

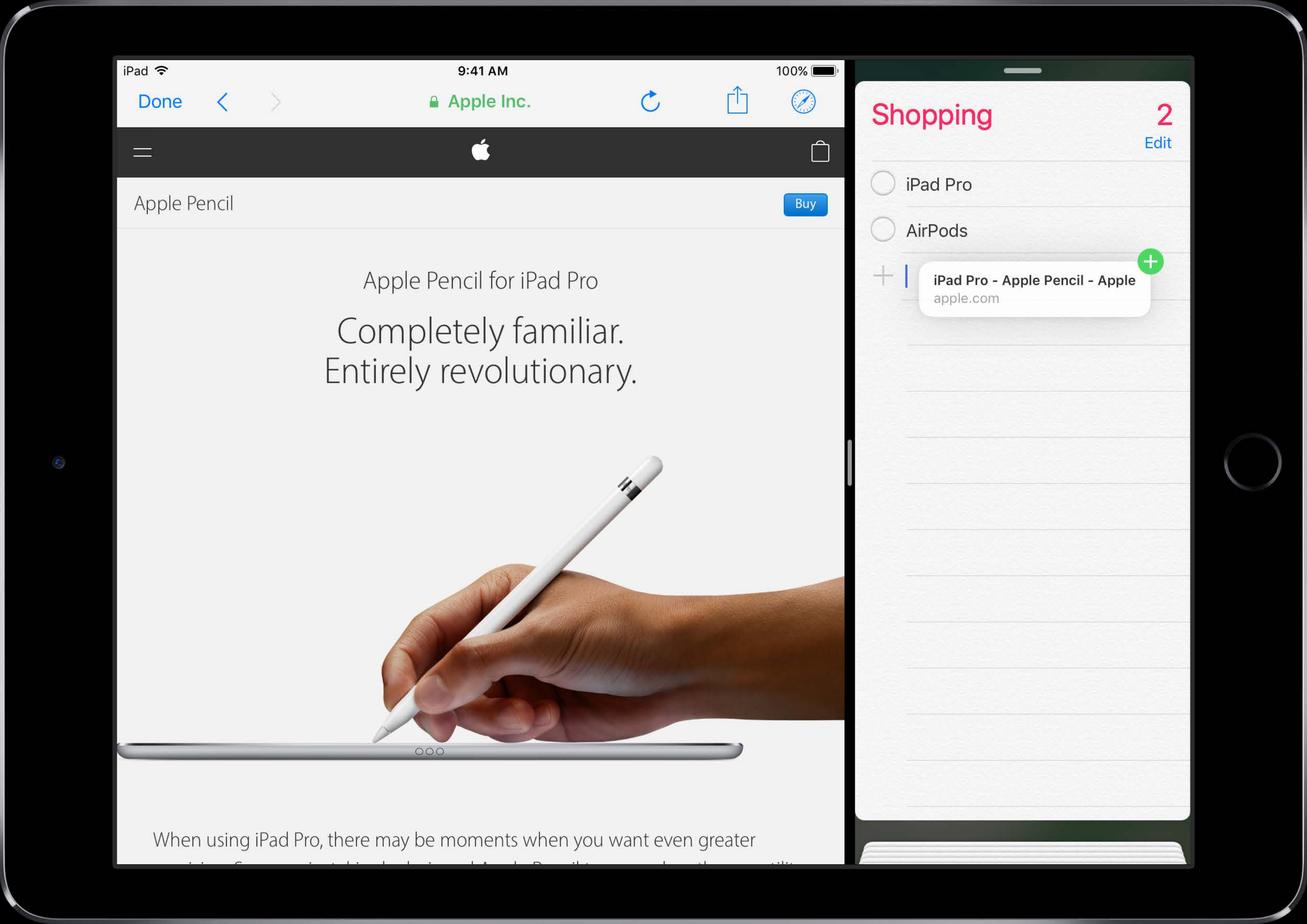
Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller

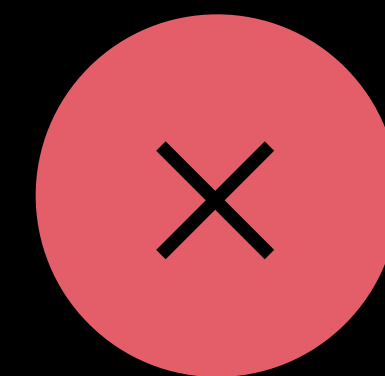
# Drag and Drop

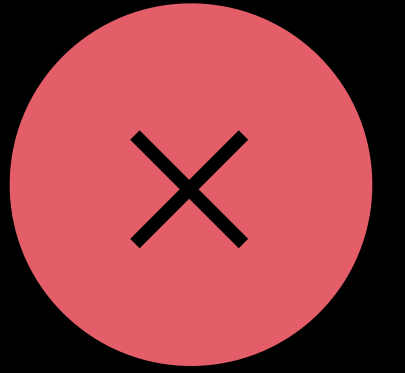
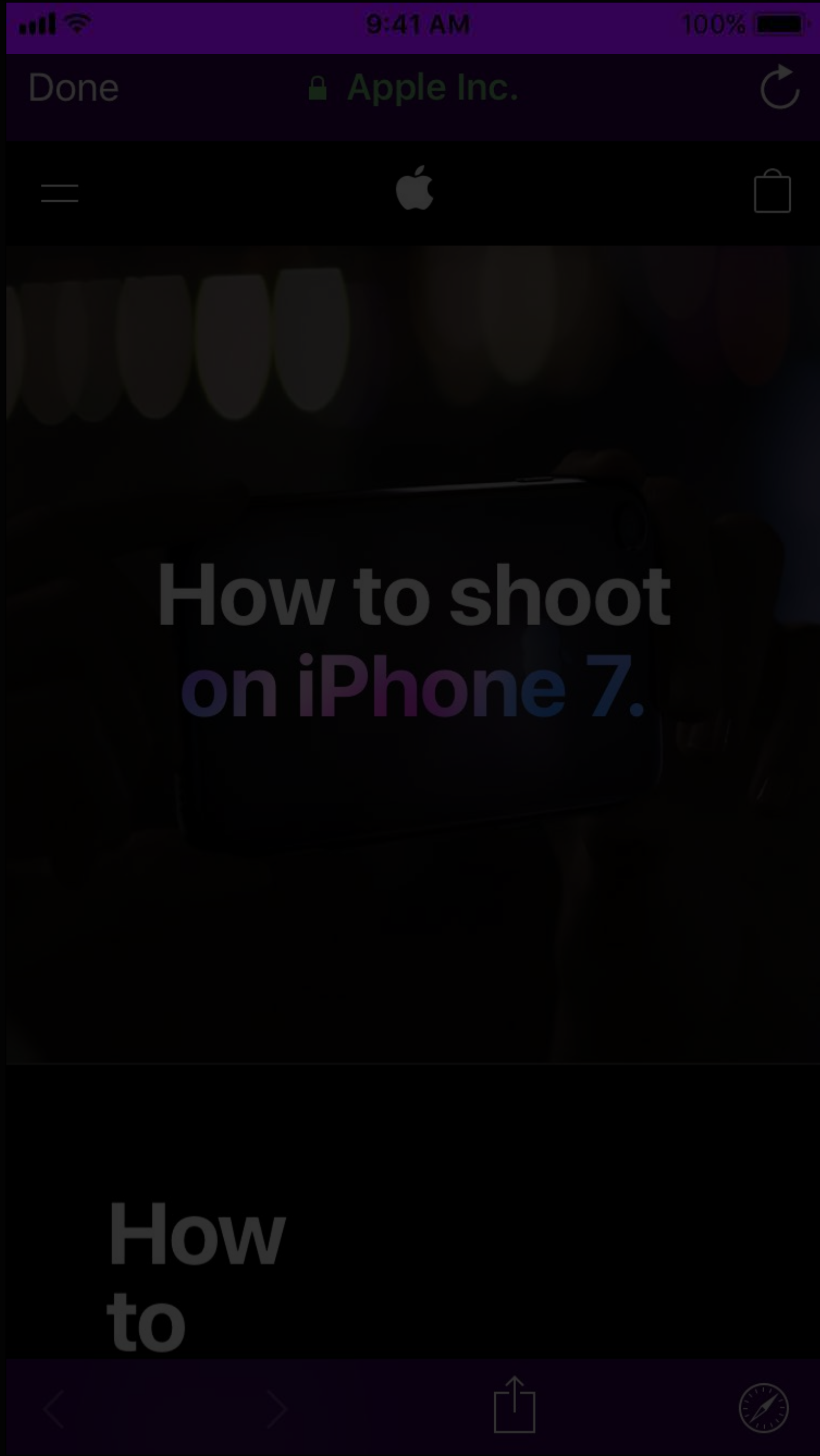
NEW





**Status Bar**





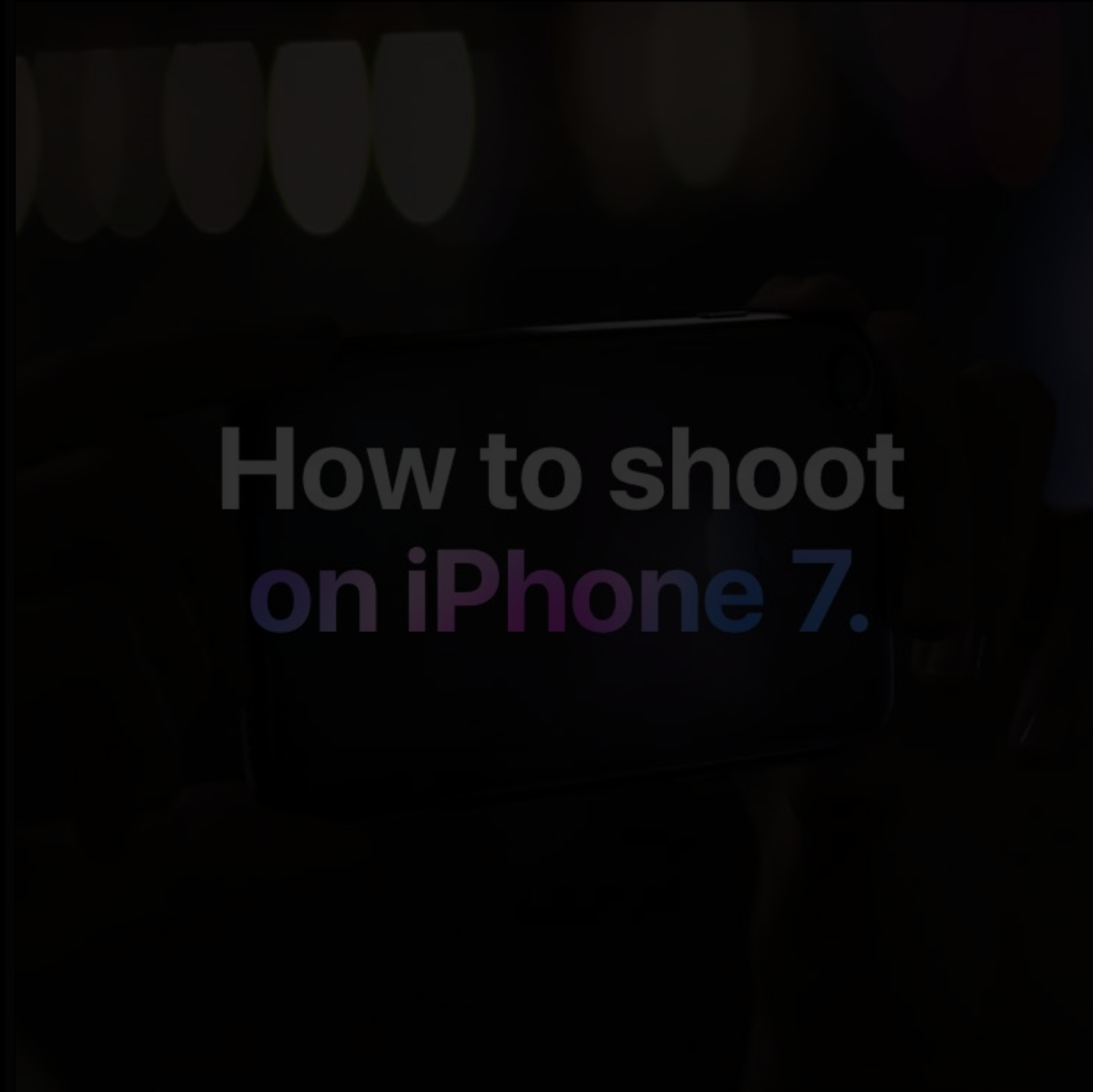


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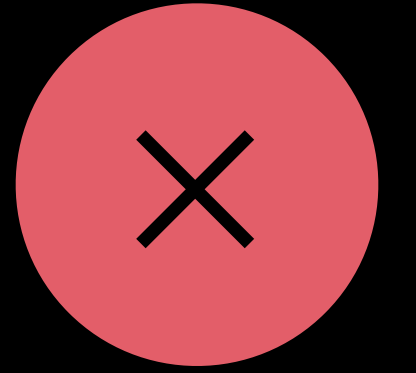
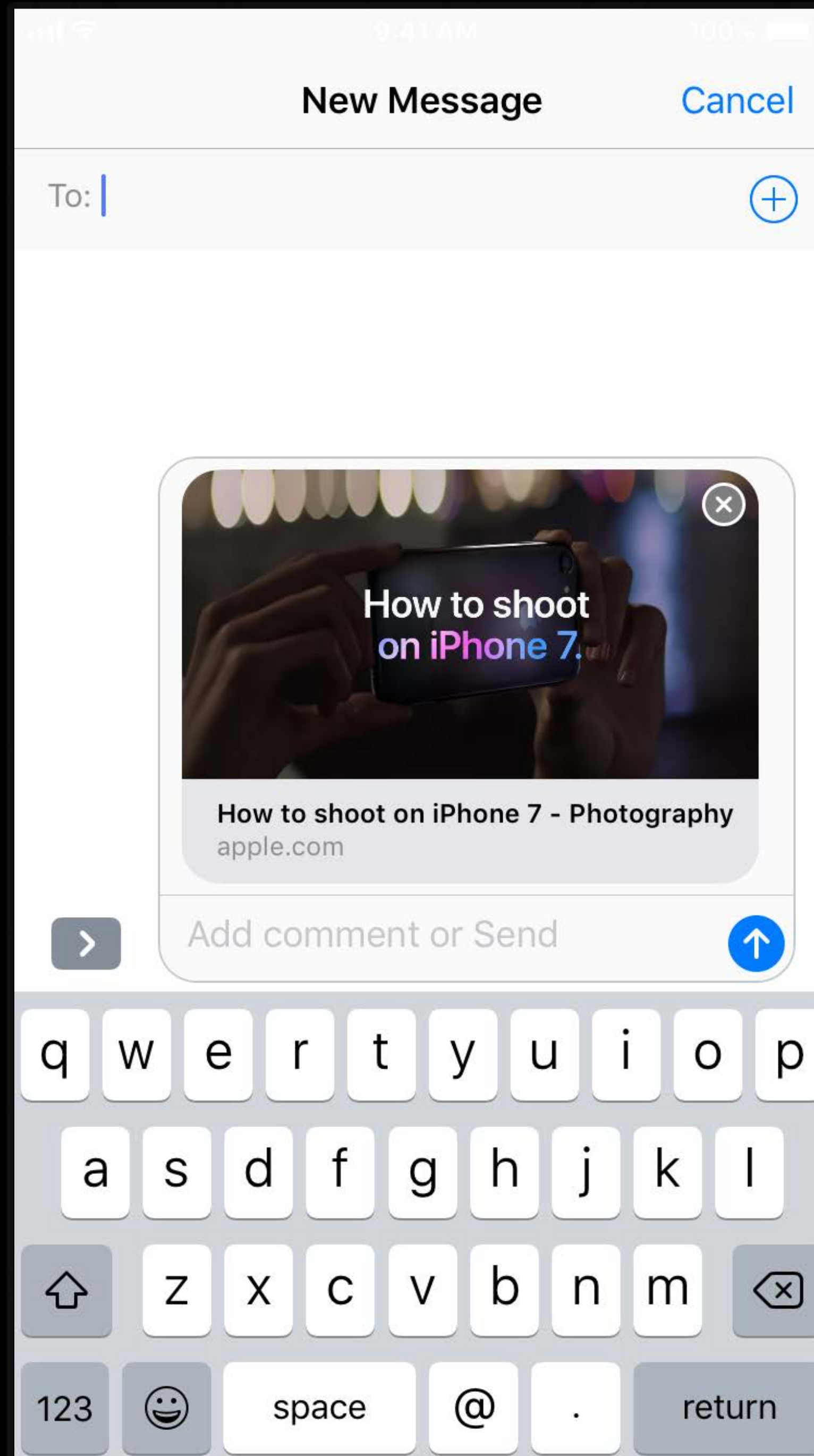
Done

Apple Inc.



How  
to





# Status Bar



# Status Bar

Other views can be presented in Safari View Controller

# Status Bar

Other views can be presented in Safari View Controller

Use UIViewController-based status bar appearance

# Status Bar

Other views can be presented in Safari View Controller

Use UIViewController-based status bar appearance

Set `UIViewControllerBasedStatusBarAppearance` to `YES` in `Info.plist`

New Message Cancel

To: +



How to shoot on iPhone 7 - Photography  
apple.com

> Add comment or Send ↑

q w e r t y u i o p  
a s d f g h j k l  
⌵ z x c v b n m ⌵  
123 😊 space @ . return



Sample Store

Clothes Office Kitchen Beauty Toys Electronics Sports

BBQ Tongs

★★★★☆ 578 Reviews



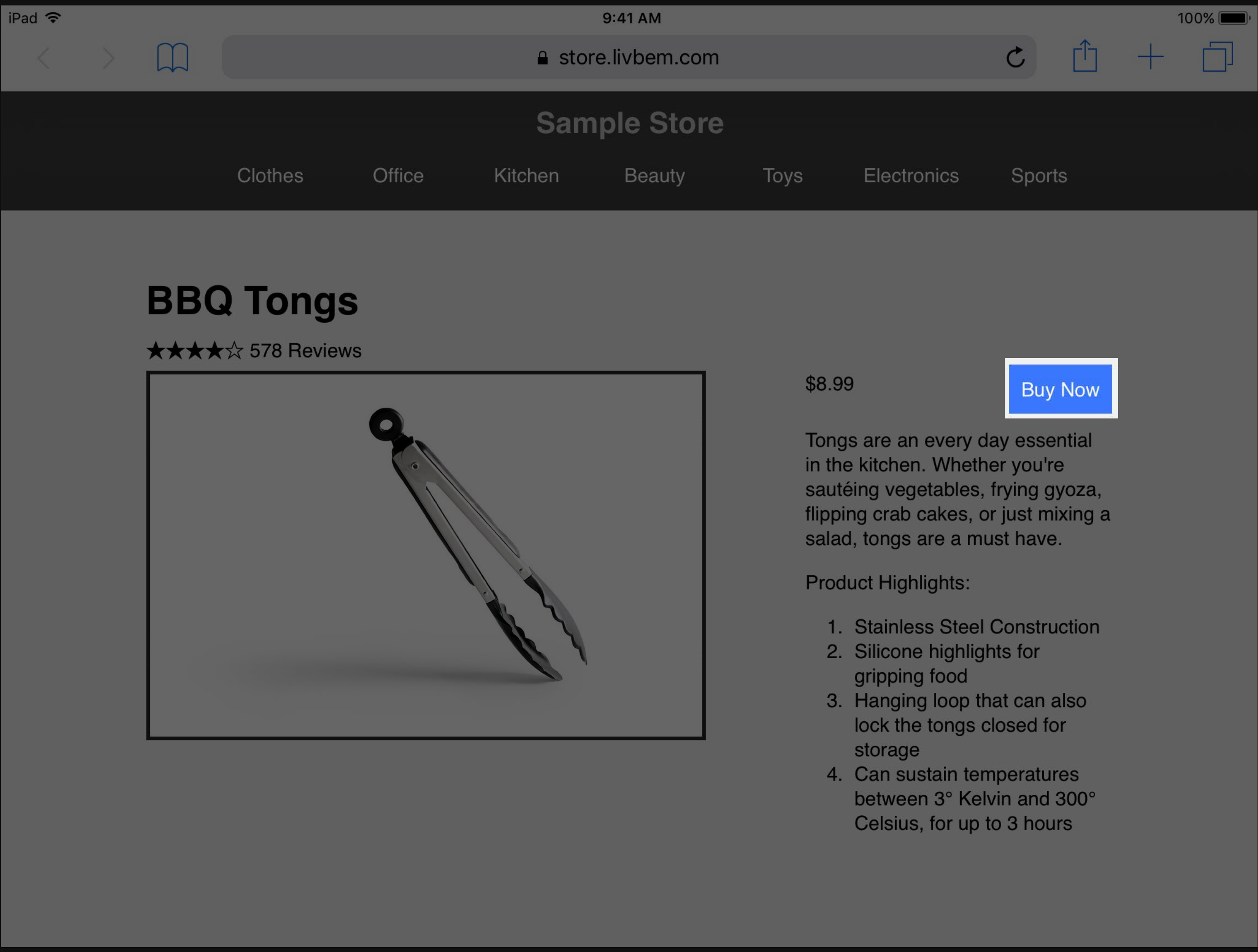
\$8.99

Buy Now

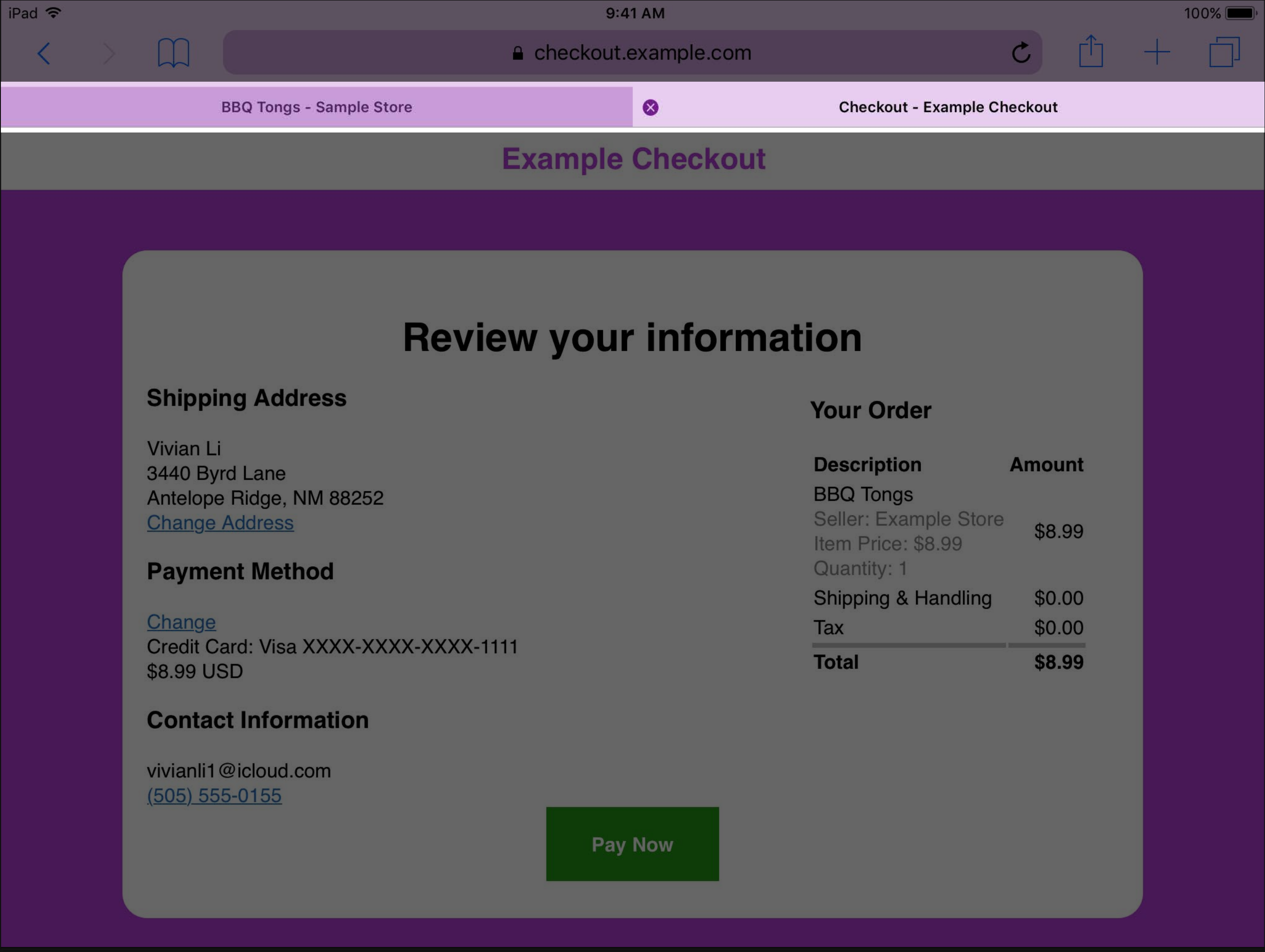
Tongs are an every day essential in the kitchen. Whether you're sautéing vegetables, frying gyoza, flipping crab cakes, or just mixing a salad, tongs are a must have.

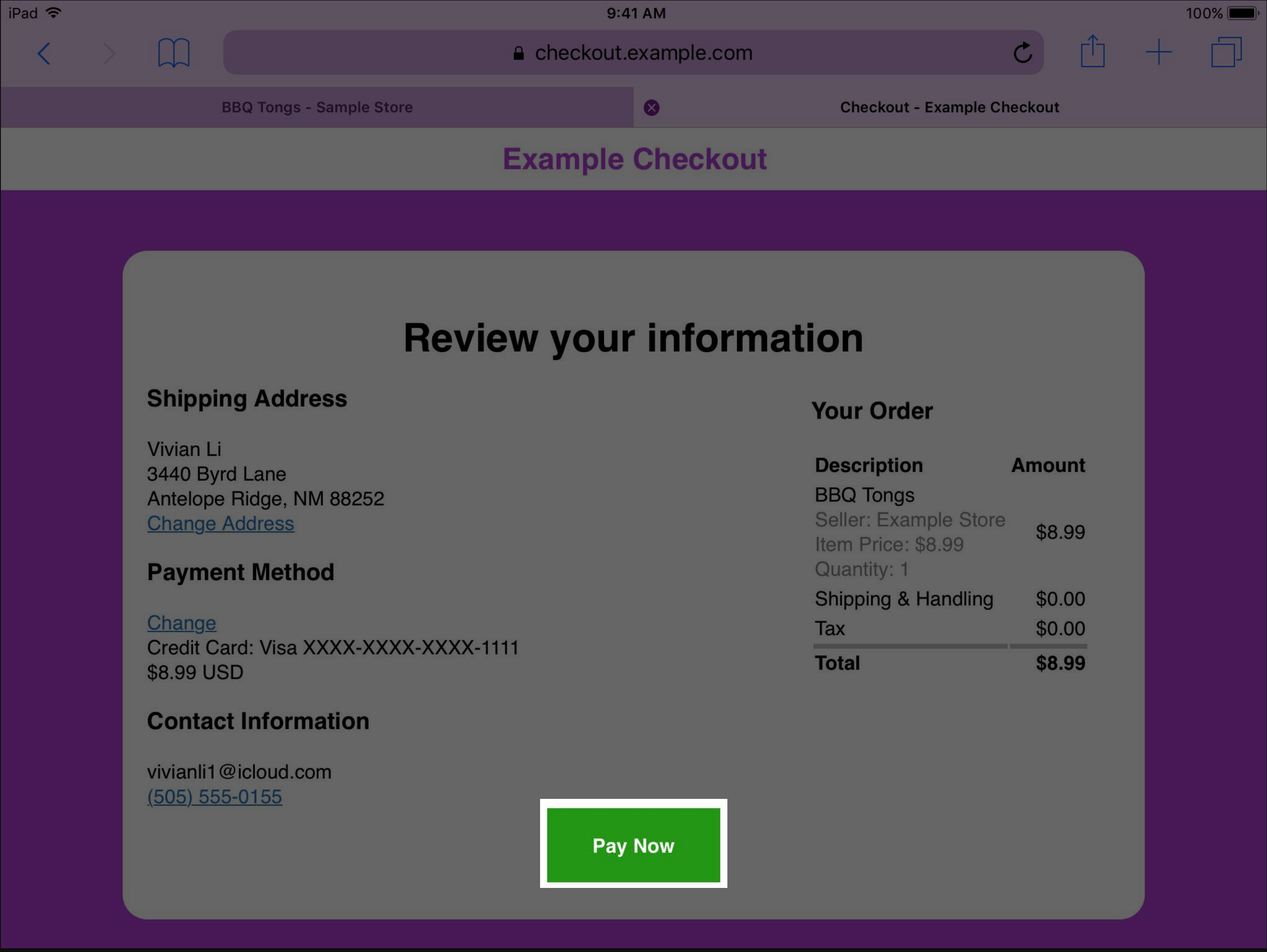
Product Highlights:

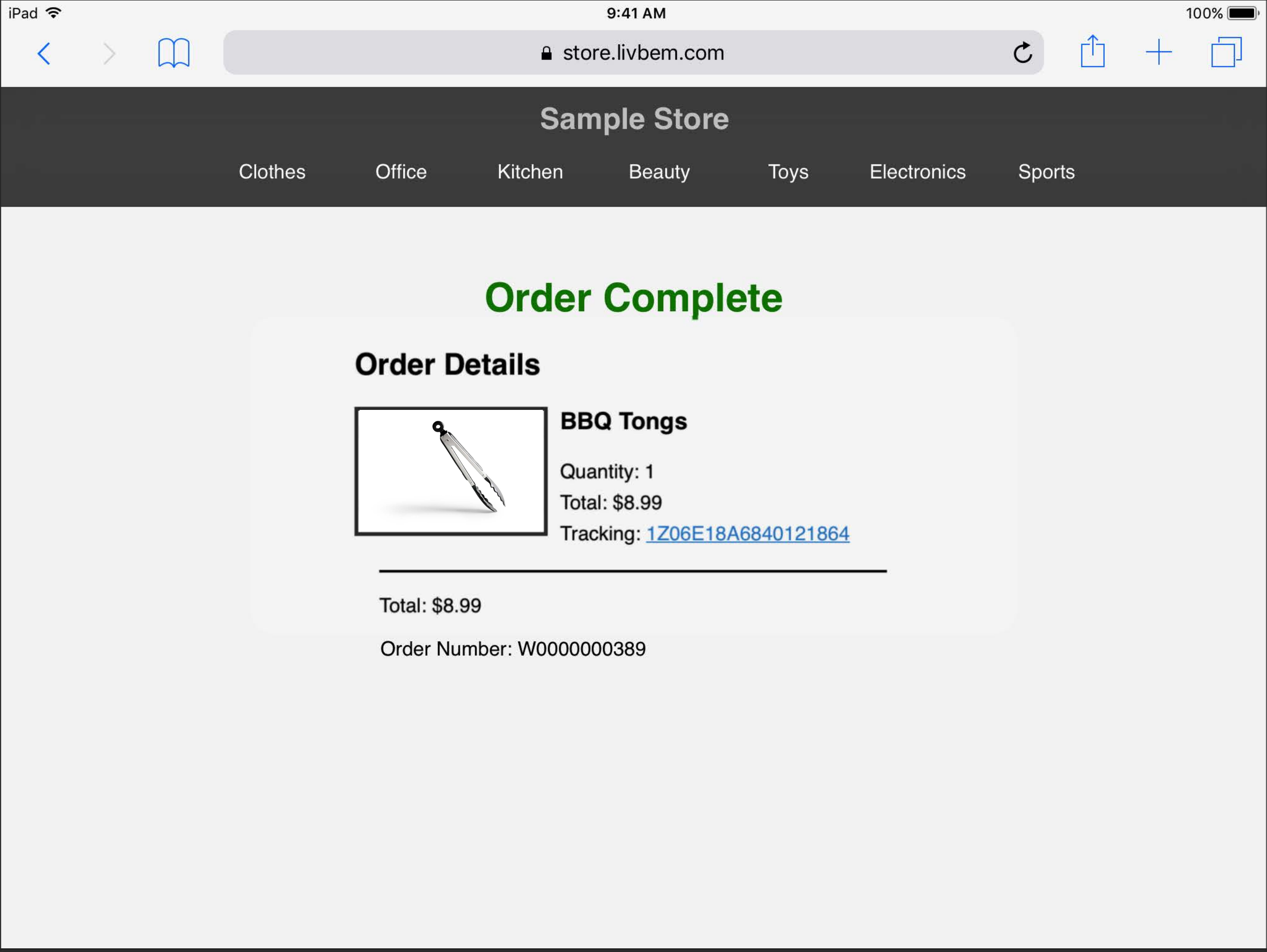
- 1. Stainless Steel Construction
- 2. Silicone highlights for gripping food
- 3. Hanging loop that can also lock the tongs closed for storage
- 4. Can sustain temperatures between 3° Kelvin and 300° Celsius, for up to 3 hours





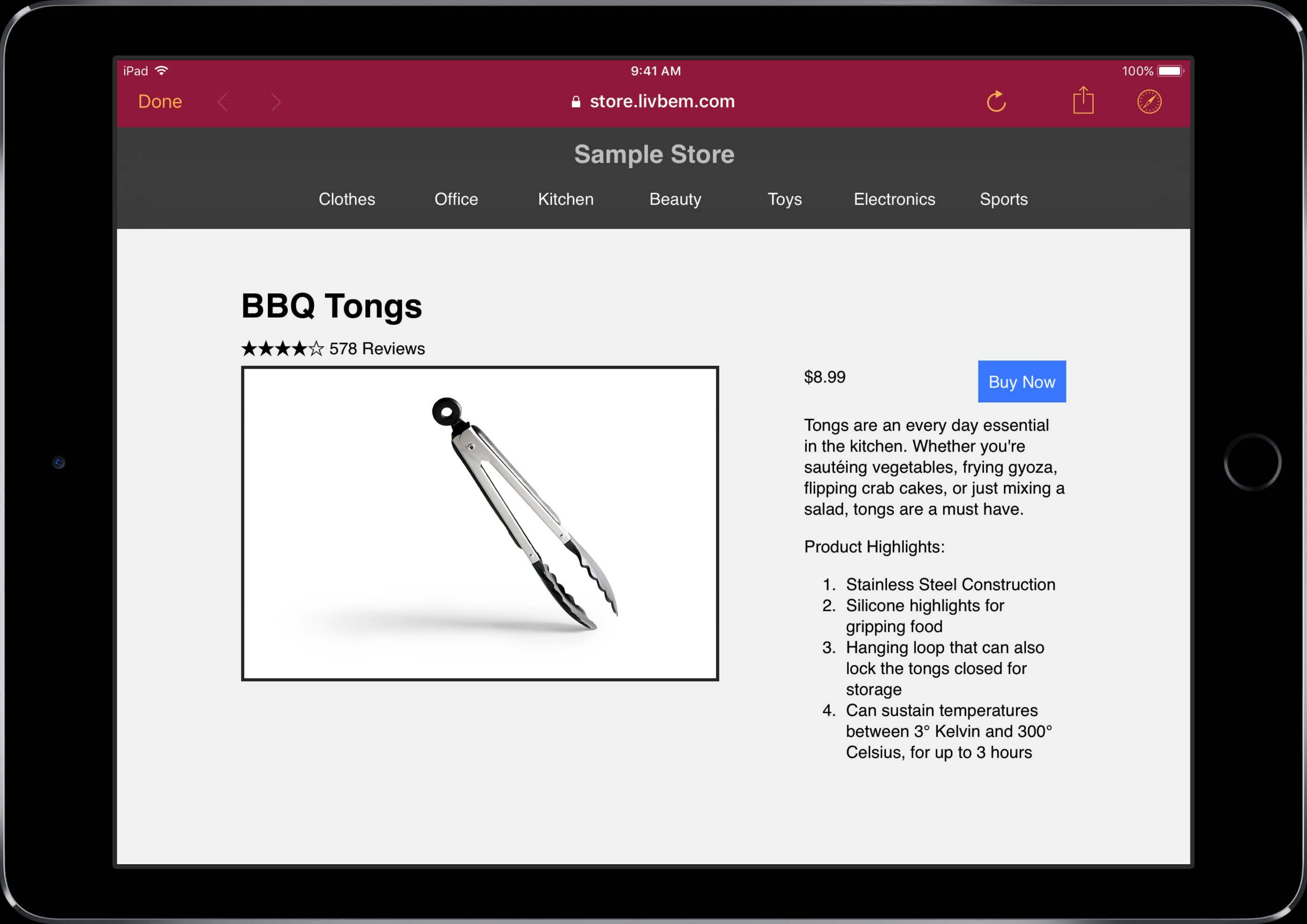






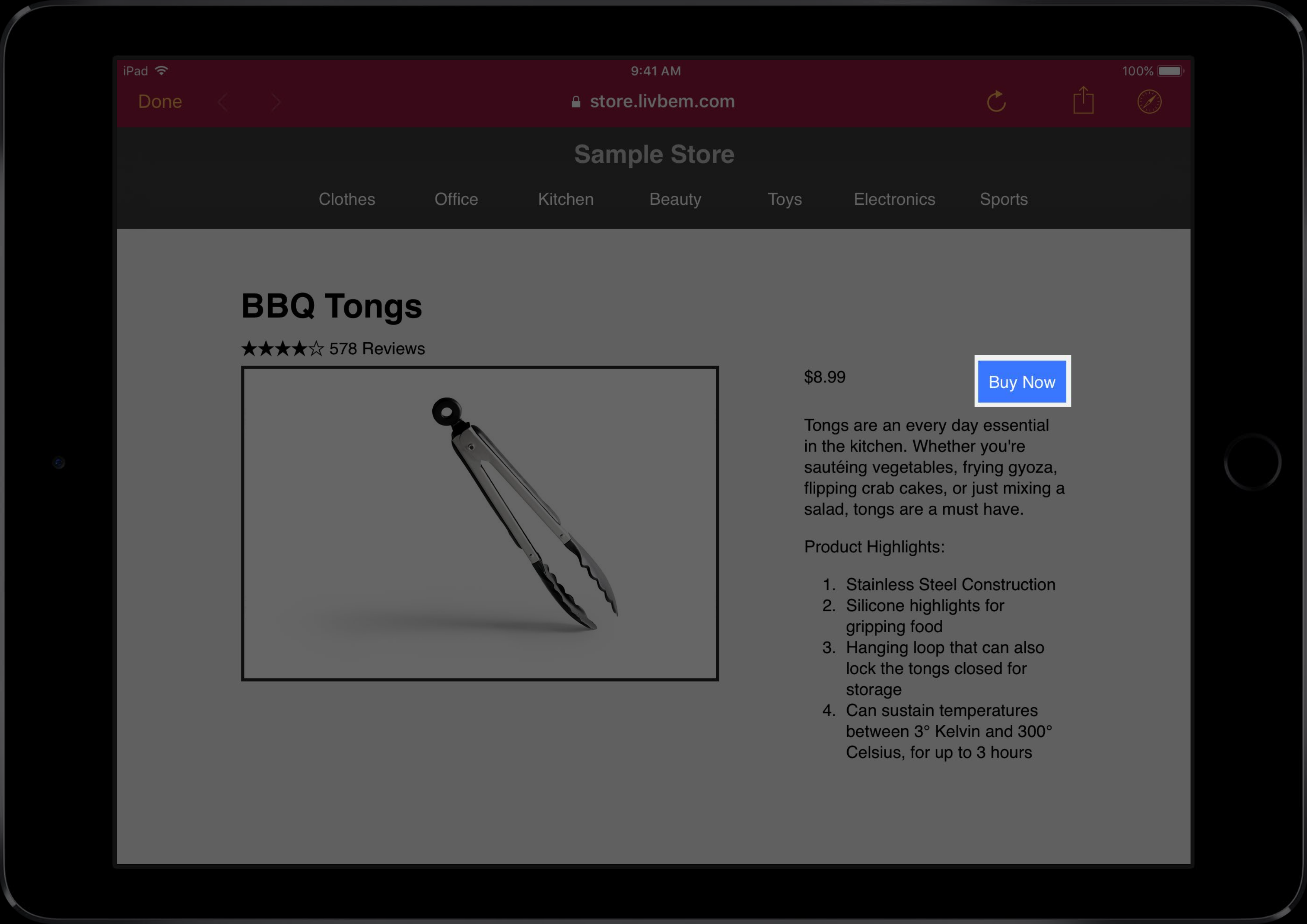
Safari View Controller supports  
`window.open()`

NEW



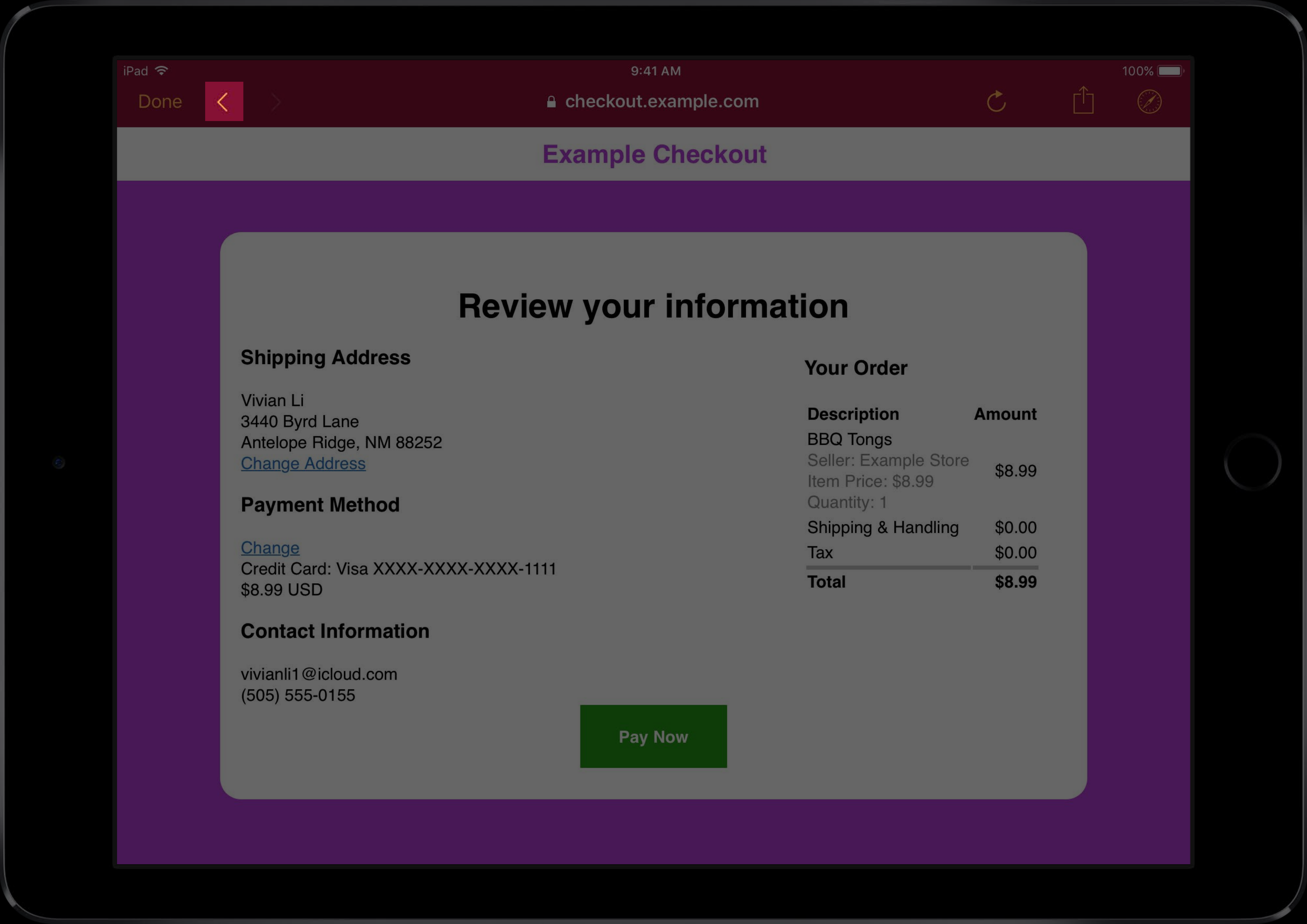


NEW

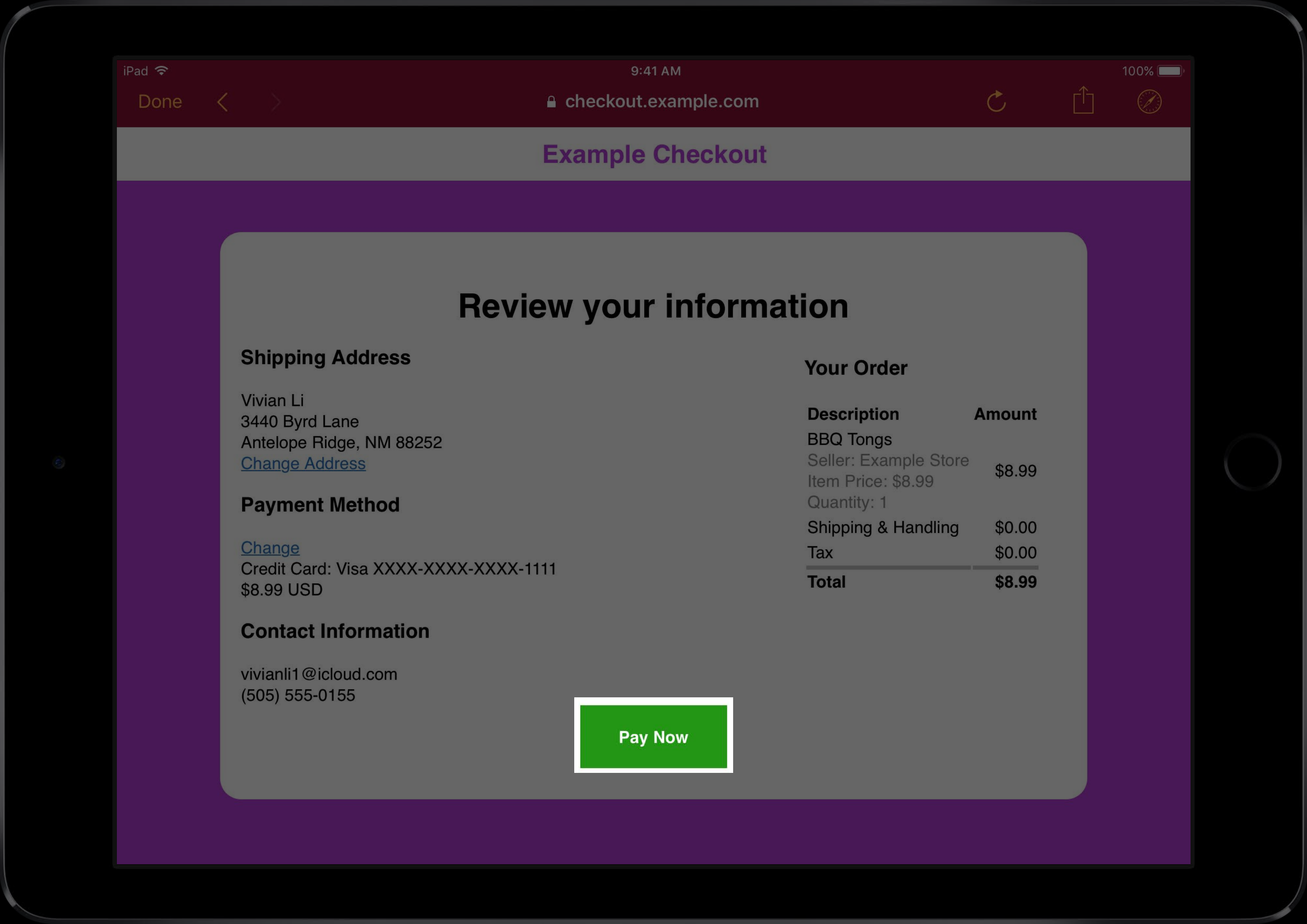




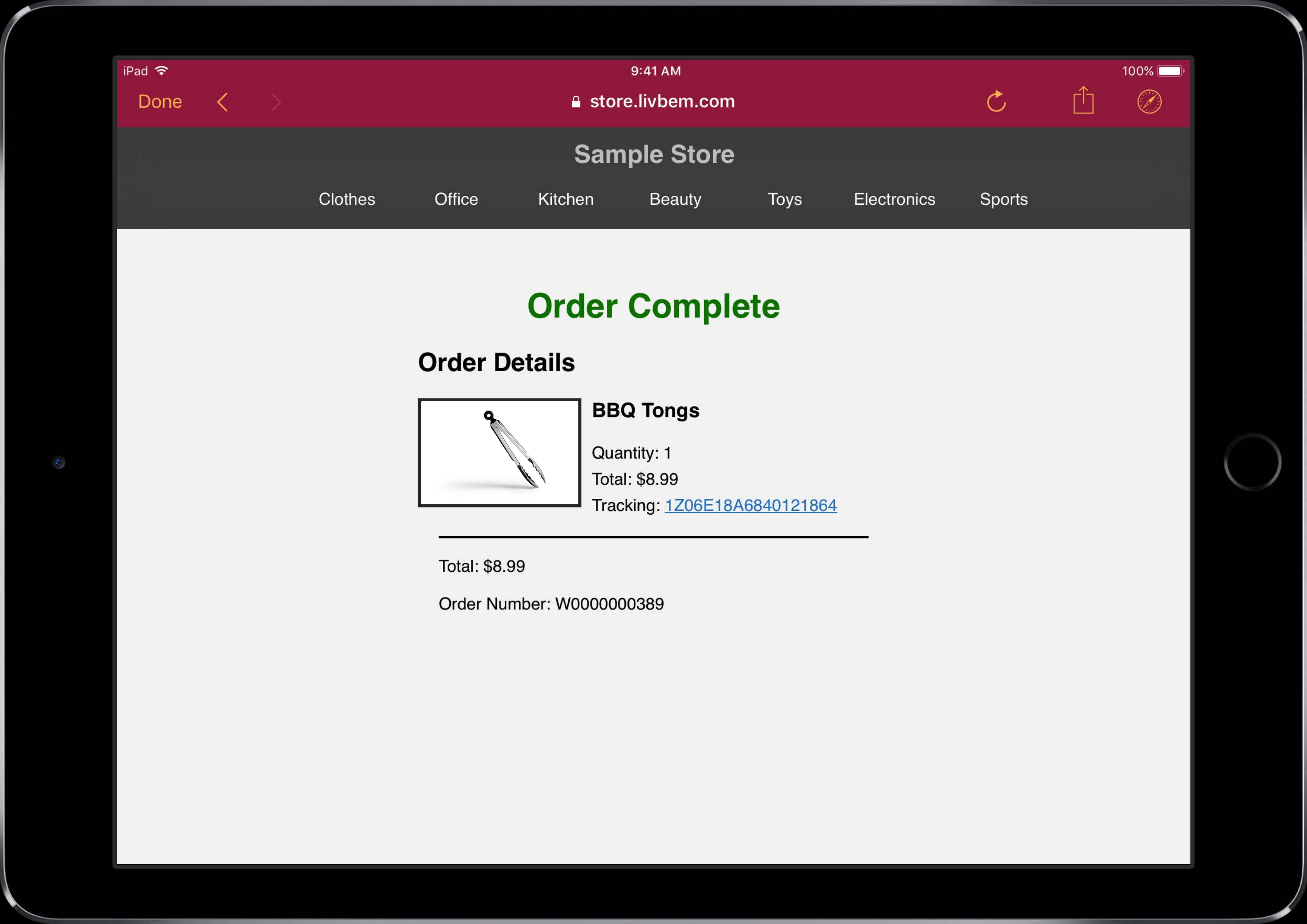
NEW



NEW



NEW



# Privacy

Browsing in your app is different

Different identity for different apps



Separate, persistent data stores

Prevent cross-app tracking

# Private Browsing



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en.m.wikipedia.org



WIKIPEDIA



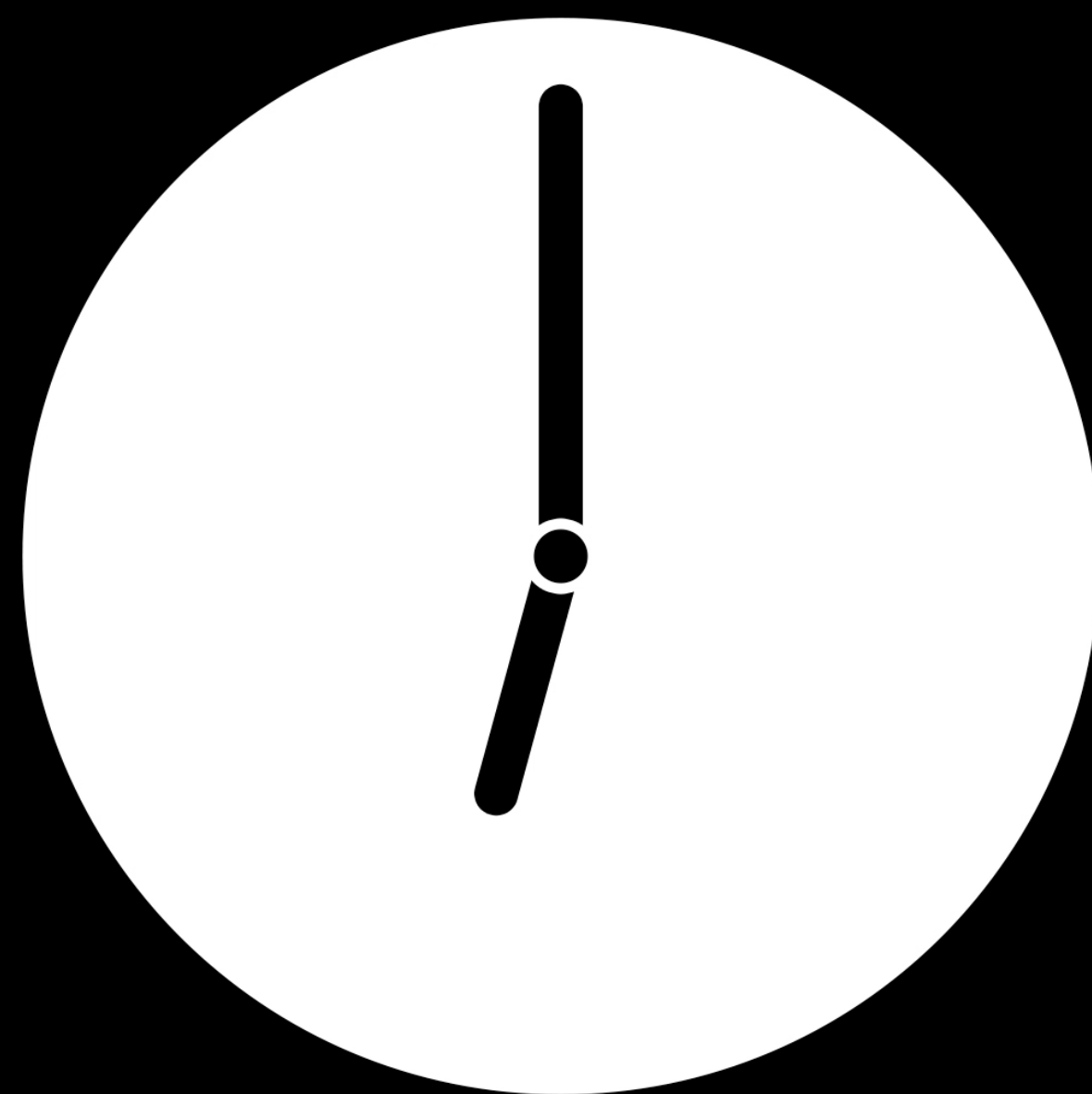
# Kitten

Page issues



*For other uses, see [Kitten \(disambiguation\)](#) and [Kitty \(disambiguation\)](#).*







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Done

en.m.wikipedia.org



WIKIPEDIA



# Puppy



*This article is about the domestic dog. For other uses, see [Puppy \(disambiguation\)](#).*







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WIKIPEDIA



# Puppy



*This article is about the domestic dog. For other uses, see [Puppy \(disambiguation\)](#).*



Displaying web content

Matching your app's style

iOS 11 improvements

Tailoring Safari View Controller

Displaying web content

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Tailoring Safari View Controller

# Customizing Dismiss Button





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Introducing  
**TODAY AT APPLE**

Inspiration is now  
in session.

See what's at your Apple Store >

Watch the film



How to shoot

on iPhone 7





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johndoe@example.com

••••••••••••••••

[Forgot your Apple ID or Password?](#)

Sign In

Use your Apple ID for the following services:

- App Store
- iTunes Store
- iPhoto Print Products
- iCloud

[Don't have an Apple ID? Create one now.](#)

Cancel





# Apple Website Terms of Use

Ownership of Site; Agreement to Terms of Use

These Terms and Conditions of Use (the "Terms of Use") apply to the Apple web site located at [www.apple.com](http://www.apple.com), and all associated sites linked to [www.apple.com](http://www.apple.com) by Apple, its subsidiaries and affiliates,

# Customizing Dismiss Button

NEW

```
enum DismissButtonStyle : Int {  
    case done  
    case cancel  
    case close  
}  
  
class SFSafariViewController : UIViewController {  
    var dismissButtonStyle: SFSafariViewController.DismissButtonStyle  
}
```

# Customizing Dismiss Button

NEW

```
enum DismissButtonStyle : Int {  
    case done  
    case cancel  
    case close  
}  
  
class SFSafariViewController : UIViewController {  
    var dismissButtonStyle: SFSafariViewController.DismissButtonStyle  
}
```

Choose button depending on your use case

# Customizing Dismiss Button

NEW

```
enum DismissButtonStyle : Int {  
    case done  
    case cancel  
    case close  
}  
  
class SFSafariViewController : UIViewController {  
    var dismissButtonStyle: SFSafariViewController.DismissButtonStyle  
}
```

Choose button depending on your use case

Value can be changed while presented

# Customizing Share Sheet



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Please Sign In

Apple ID\*



**AirDrop.** Tap to turn on Wi-Fi and Bluetooth to share with AirDrop.



Message



Mail



Reminders



Add to Notes



Add to  
Reading List



Add  
Bookmark



Copy

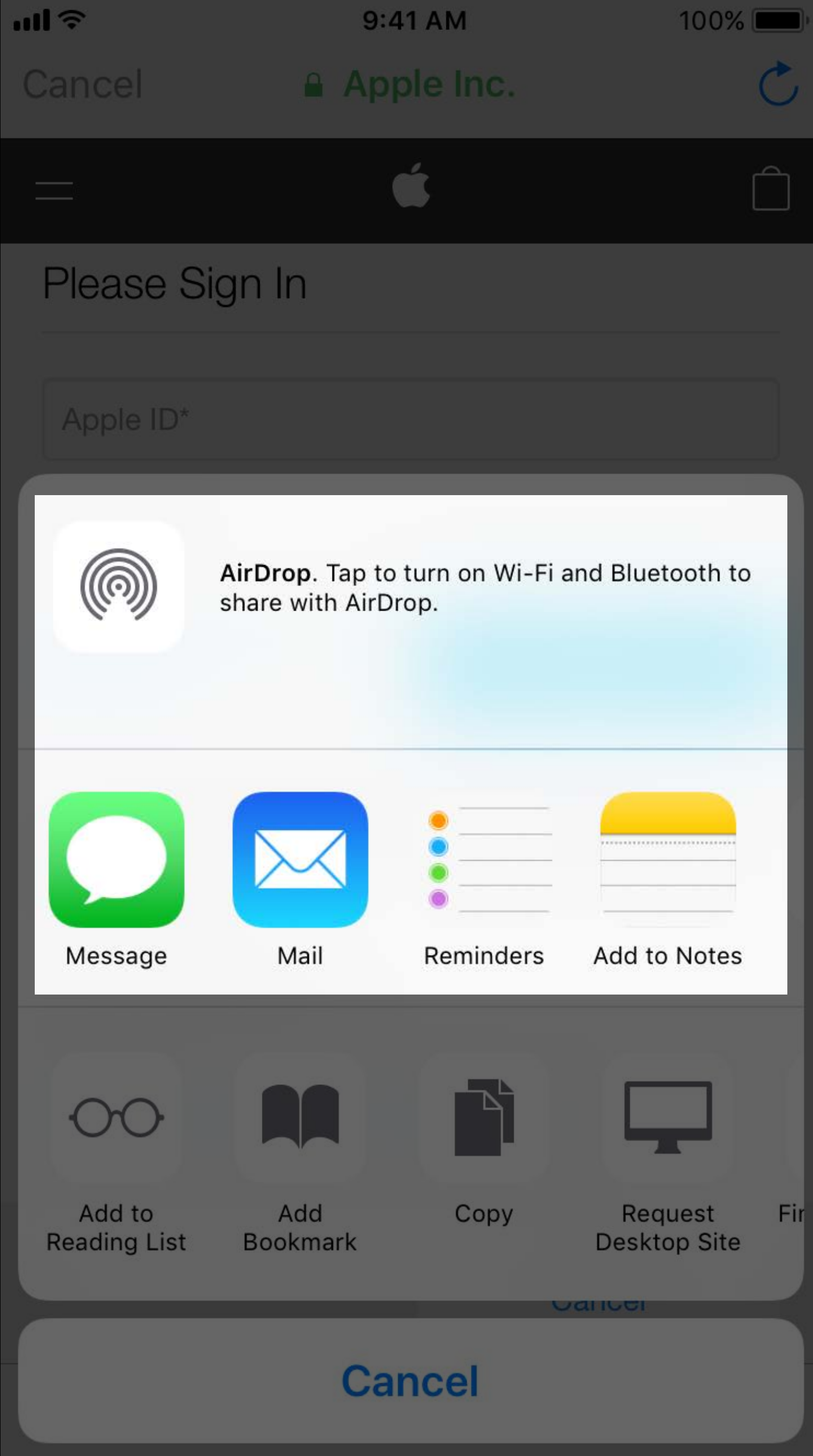


Request  
Desktop Site

Fin

Cancel







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Apple ID\*

Password\*

[Forgot your Apple ID or Password?](#)

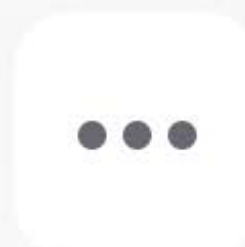
Sign In



Reminders



Add to Notes



More



Add to  
Reading List



Add  
Bookmark



Copy



Request  
Desktop Site



Fir

Cancel

# Customizing the Share Sheet

```
open class UIActivityViewController : UIViewController {  
    open var excludedActivityTypes: [UIActivityType]?  
}
```

# Customizing the Share Sheet

NEW

```
protocol SFSafariViewControllerDelegate : NSObjectProtocol {  
    optional func safariViewController(_ controller: SFSafariViewController,  
excludedActivityTypesFor URL: URL, title: String?) -> [UIActivityType]  
}
```

# Bar Collapsing



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iPhone  
This is 7.



JFK Centennial Celebration

Lessons in Leadership







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iPhone  
This is 7.



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GitHub, Inc.



# GitHub

Sign in to GitHub

Username or email

janedoe

Password [\(forgot password\)](#)

●●●●●●●●●●●●●●●●

Sign in



Desktop version



# Bar Collapsing

NEW

```
class Configuration : NSObject, NSCopying {  
    var barCollapsingEnabled: Bool  
}
```

# Bar Collapsing

NEW

```
class Configuration : NSObject, NSCopying {  
    var barCollapsingEnabled: Bool  
}
```

Part of new `SFSafariViewController.Configuration`

# Bar Collapsing

NEW

```
class Configuration : NSObject, NSCopying {  
    var barCollapsingEnabled: Bool  
}
```

Part of new `SFSafariViewController.Configuration`

Leave enabled for a more immersive browsing experience

# Bar Collapsing

NEW

```
class Configuration : NSObject, NSCopying {  
    var barCollapsingEnabled: Bool  
}
```

Part of new `SFSafariViewController.Configuration`

Leave enabled for a more immersive browsing experience

Disable if dismiss button should always be shown



***Demo***

Tailoring Safari View Controller for your app

Louie Livon-Bemel, Safari Engineer



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login.example.com



## SampleChat

livbem

●●●●●●●●●●●●●●●●

Log In

[I forgot my password](#)

[I am new customer, sign me up!](#)

SampleChat is a registered trademark of Sample LLC, a subsidiary of Example Corp.

By logging in to this example site you agree to our [Terms of Service](#) and our [Privacy Policy](#). Our Privacy Policy is way longer than humanly possible to read. However, our Terms of Service are human-readable.

In short, our terms of service state that you agree to the following:





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Cancel

login.example.com



## SampleChat

livbem

●●●●●●●●●●●●●●●●

Log In

[I forgot my password](#)

[I am new customer, sign me up!](#)

SampleChat is a registered trademark of Sample LLC, a subsidiary of Example Corp.

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Cancel

login.example.com



## SampleChat

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By logging in to this example site you agree to our [Terms of Service](#) and our [Privacy Policy](#). Our Privacy Policy is way longer than humanly possible to read. However, our Terms of Service are human-readable.

In short, our terms of service state that you agree to the following:

1. You agree to adopt SFSafariViewController in your application.
2. You agree that this service is available as-is, and there is no implied contract of support.
3. You agree that this service is to be used as an example to illustrate a point.





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Done

login.example.com



## SampleChat



**Success!**

**You've granted 'PizzaStories'  
access to your SampleChat  
account.**

You can close this window at any time.



We hear you



# Summary

What's New in Safari View Controller

# Summary

## What's New in Safari View Controller

Provides a great in-app web browsing experience

# Summary

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Provides a great in-app web browsing experience

Makes authenticating to a third-party service easy

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Provides a great in-app web browsing experience

Makes authenticating to a third-party service easy

Many improvements and customization options

# Summary

## What's New in Safari View Controller

Provides a great in-app web browsing experience

Makes authenticating to a third-party service easy

Many improvements and customization options

Take another look

# More Information

<https://developer.apple.com/wwdc17/225>



# Related Sessions

Introducing Password AutoFill for Apps	Executive Ballroom	Wednesday 9:00AM
Customized Loading in WKWebView	Grand Ballroom A	Wednesday 4:10PM
Introducing Safari View Controller		WWDC 2015

# Labs

Safari, WebKit, and Password AutoFill Lab	Technology Lab K	Thurs 11:00AM–1:00PM
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