Introducing Safari View Controller

Session 504

Ricky Mondello Safari and WebKit Engineer
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Web Content
App Content

Websites
App Content

Websites
Your App’s Content

WKWebView

Introduced in iOS 8 and OS X 10.10

A view of web content that allows you to:

• Block or modify navigations
• Evaluate JavaScript and get a result

You can:

• Add your own back button, forward button, and progress indicator
WKWebView Enhancements
Available on iOS 9 and OS X 10.11

```swift
func loadFileURL(
    URL: NSURL,
    allowingReadAccessToURL readAccessURL: NSURL) -> WKNavigation?

func loadData(
    data: NSData,
    MIMEType: String,
    characterEncodingName: String,
    baseURL: NSURL) -> WKNavigation?

var customUserAgent: String?
```
WKWebView Enhancements
Available on iOS 9 and OS X 10.11

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var customUserAgent: String?
WKWebsiteDataStore

New API available on iOS 9 and OS X 10.11

Represents the cookies and other data stored by websites

A read-write property on your web view’s WKWebViewConfiguration

Can remove data by its type, like cookies and cache, or by the date modified

Can change configuration to use a non-persistent data store
WKWebsiteDataStore

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Can change configuration to use a non-persistent data store
MacBook
Light. Years ahead.

Watch the Reveal film ➔
Watch the Design film ➔
Experience the keynote ➔
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Watch the Reveal film
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Experience the keynote
Safari View Controller
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Watch the Reveal film
Watch the Design film
Experience the keynote
Safari View Controller
Features for your users
Welcome back, rmondello!

Change Password       Log out
Please log in.

Username
rmondello

Password
************

Log in

If you don't have an account, please sign up.
Safe
Shipping Address

Company Name (optional)

Phone

Address

City

State

Zip Code

United States

This is a business address

Shipping Notifications

Shipment notification emails are sent to the Billing Contact. Another recipient email address may be added below.

Jane.Appleseed@mac.com

For shipment updates via text messages, enter a mobile number below.

888 5555512

Apple Shipping Policy

- Signature may be required for delivery
- We do not ship to P.O. boxes
- Delivery estimates below include item preparation
- We do not ship directly to APO/FPO addresses.
Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean placerat tellus eget orci convallis aliquam:


Lorem Ipsum

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iMac with Retina 5K display

Now starting at $1999

Watch the film ➔
Watch the keynote ➔
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with Retina 5K display

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iMac with Retina 5K display

Now starting at $1999

Watch the film
Watch the keynote
Content Blocking
Big Bear's Golf Blog

My Day at San Juan Oaks


Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam vulputate velit at pulvinar, id aliquam nibh aliquam. Pellentesque mattis velit ut hendrerit dapibus.
Big Bear’s Golf Blog

My Day at San Juan Oaks

Content Blocking
Safari View Controller
Safety for your users
Example Domain

This domain is established to be used for illustrative examples in documents. You may use this domain in examples without prior coordination or asking for permission.

More information...
Suspected Phishing Site

The website you are visiting has been reported as a “phishing” website. These websites are designed to trick you into disclosing personal or financial information, usually by creating a copy of a legitimate website, such as a bank.

Learn more about phishing scams
Report an error

Go Back

Ignore this Warning
Features of Safari View Controller

A familiar user interface
Cookies shared with Safari
Password AutoFill
Credit Card AutoFill
Contact Card AutoFill
Safari Reader
Content Blocking
And more!
Safari View Controller
API
class SFSafariViewController : UIViewController {
    weak var delegate: SFSafariViewControllerDelegate?

    init(URL: NSURL)
}

SFSafariViewController
API
class SFSafariViewController: UIViewController {
    weak var delegate: SFSafariViewControllerDelegate?

    init(URL: NSURL)
}
SFSafariViewController

API

class SFSafariViewController : UIViewController {
    weak var delegate: SFSafariViewControllerDelegate?

    init(URL: NSURL)
}

protocol SFSafariViewControllerDelegate : NSObjectProtocol {
    optional func safariViewController(controller: SFSafariViewController, activityItemsForURL URL: NSURL, title: String?) -> [UIActivity]

    optional func safariViewControllerDidFinish(controller: SFSafariViewController)
}

SFSafariViewController

API
protocol SFSafariViewControllerDelegate : NSObjectProtocol {
    optional func safariViewController(controller: SFSafariViewController, activityItemsForURL URL: NSURL, title: String?) -> [UIActivity]

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SFSafariViewController
API
class SFSafariViewController : UIViewController {
    weak var delegate: SFSafariViewControllerDelegate?

    init(URL: NSURL)
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    optional func safariViewControllerDidFinish(controller: SFSafariViewController)
}
Demo

Replacing a custom web view with SFSafariViewController

Yongjun Zhang
Safari and WebKit Engineer
Today's Special

![Image]

Total nutrition facts Buffalo mozzarella margherita 1 Serving, Cal 770, Fat 35g, Carbs 82g, Sugar 6g, Protein 35g, Fiber 14g, Margherita: Tomato sauce, fresh mozzarella, and finished with basil. Total nutrition facts 1 Serving, Cal 736, Fat 32g, Carbs 92g, Sugar 6g, Protein 35g, Fiber 14g, Margherita: Tomato sauce, fresh mozzarella, and finished with basil. Total nutrition facts Buffalo mozzarella margherita 1 Serving, Cal 770, Fat 35g, Carbs 82g, Sugar 6g, Protein 35g, Fiber 14g, Margherita: Tomato sauce, fresh mozzarella, and finished with basil. Total nutrition facts 1 Serving, Cal 736, Fat 32g, Carbs 92g, Sugar 6g, Protein 35g, Fiber 14g, Pepperoni and sausage: Tomato sauce, mozzarella, Italian pork sausage or all natural turkey sausage, and pepperoni.

Five cheeseezess

Vegetariana pizza: Tomato sauce, mozzarella, zucchini, eggplant, olives, bell peppers, and sautéed mushrooms. Total nutrition facts 1 Serving, Cal 705, Fat 28g, Carbs 89g, Sugar 9g, Protein 30g, Fiber 15g. Buffalo mozzarella margherita: Tomato sauce, buffalo milk mozzarella, and fresh basil. Total nutrition facts Buffalo mozzarella margherita 1 Serving, Cal 770, Fat 35g, Carbs 82g, Sugar 6g, Protein 35g, Fiber 14g. Margherita: Tomato sauce, fresh mozzarella, and finished with basil. Total nutrition facts Buffalo mozzarella margherita 1 Serving, Cal 770, Fat 35g, Carbs 82g, Sugar 6g, Protein 35g, Fiber 14g. Pepperoni and sausage: Tomato sauce, mozzarella, Italian pork sausage or all natural turkey sausage, and pepperoni.

Total nutrition facts 1 Serving, Cal 1043, Fat 91g, Carbs 97g, Sugar 7g, Protein 45g, Fiber 14g. Hawaiian: Tomato sauce, mozzarella, shaved ham, and pineapple. Total nutrition facts 1 Serving, Cal 803, Fat 31g, Carbs 101g, Sugar 1g, Protein 35g, Fiber 15g. Buffalo mozzarella cheese, red onion, and tomato sauce. Total nutrition facts 1 Serving, Cal 726, Fat 30g, Carbs 97g, Sugar 6g, Protein 26g, Fiber 15g. Tomato sauce contains: extra-virgin olive oil, tomatoes, dried oregano, sea salt, and black pepper.
Today's Special

Nick's Pizza -

Total nutrition facts Buffalo mozzarella margherita 1 Serving, Cal 770, Fat 35g, Carbs 92g, Sugar 6g, Protein 35g, Fiber 14g Margherita$6 Tomato sauce, fresh mozzarella, and finished with basil. Total nutrition facts 1 Serving, Cal 736, Fat 32g, Carbs 92g, Sugar 6g, Protein 32g, Fiber 14g Pepperoni and sausage$6.
Safari View Controller
Great for web-based authentication
Allow “Pizza Finder” to use your Shiny account?

Username

rmondello

Password

**Crowdsource the best pizza near you.**

Don’t Allow  Allow
Web-Based Authentication

Safari View Controller

1. Where you would have used a web view, use `SFSafariViewController`

2. When your `AppDelegate` is messaged with `application(_:handleOpenURL:)` and you have inspected the response, dismiss the `SFSafariViewController` instance
Web Content
WKWebView
WKWebView

Introducing the Modern WebKit API
MacBook
Light. Years ahead.

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Experience the keynote
More Information

Technical Support
Apple Developer Forums
http://developer.apple.com/forums

Developer Technical Support
http://developer.apple.com/support/technical

General Inquiries
Jon Davis, Safari and WebKit Evangelist
web-evangelist@apple.com
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