

iOS mOcean SDK Developer Guide

For iOS Version 2.6.0

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System Requirements

- Intel based Mac
- iOS 4.0 - 5.0 SDK
- XCode 4

Feature list

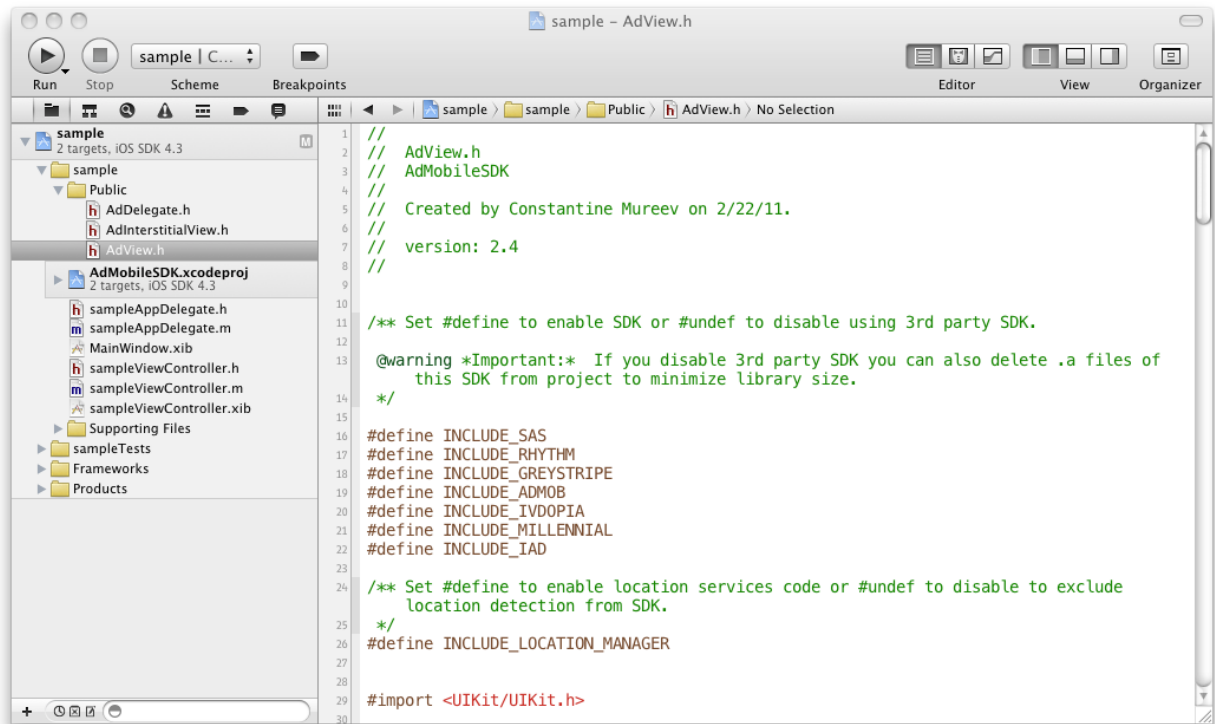
- **HTML / JS ads**
SDK support displaying web ads using UIWebView component.
- **Video ads**
SDK support playing video ads in clickable MPMoviePlayerController component.
- **Location auto detect**
SDK automatically starts detecting user location
- **User-Agent auto detect**
SDK automatically detects device User-Agent
- **Ad visibility tracking**
SDK automatically detects ads visibility for controlling updates and video playback
- **Logging**
SDK support logging.
- **Content caching**
All content cached
- **Internal browser**
SDK contains built-in browser for displaying ads in application
- **Millennial 3rd party**
SDK includes Millennial library. [See more.](#)
- **Google AdMob 3rd party**
SDK includes AdMob library. [See more.](#)
- **Rhythm 3rd party**
SDK includes Rhythm library. [See more.](#)
- **Greystripe 3rd party**
SDK includes Greystripe library. [See more.](#)
- **iAd 3rd party**
SDK support iAd framework. [See more.](#)
- **iVdopia 3rd party**
SDK includes iVdopia library. [See more.](#)
- **SmartAdServer 3rd party**
SDK includes SmartAdServer library. [See more.](#)
- **ORMMA level 1,2,3**
SDK support all ORMMA levels. [See more.](#)

Installing the Ad SDK

Add the Latest Mojiva SDK library project to your app

Add the AdView.h, AdInterstitialView.h, AdDelegate.h header files from Public folder in SDK sources and library project.

Select Classes, then right-click and select Add Files to “Project Name”...

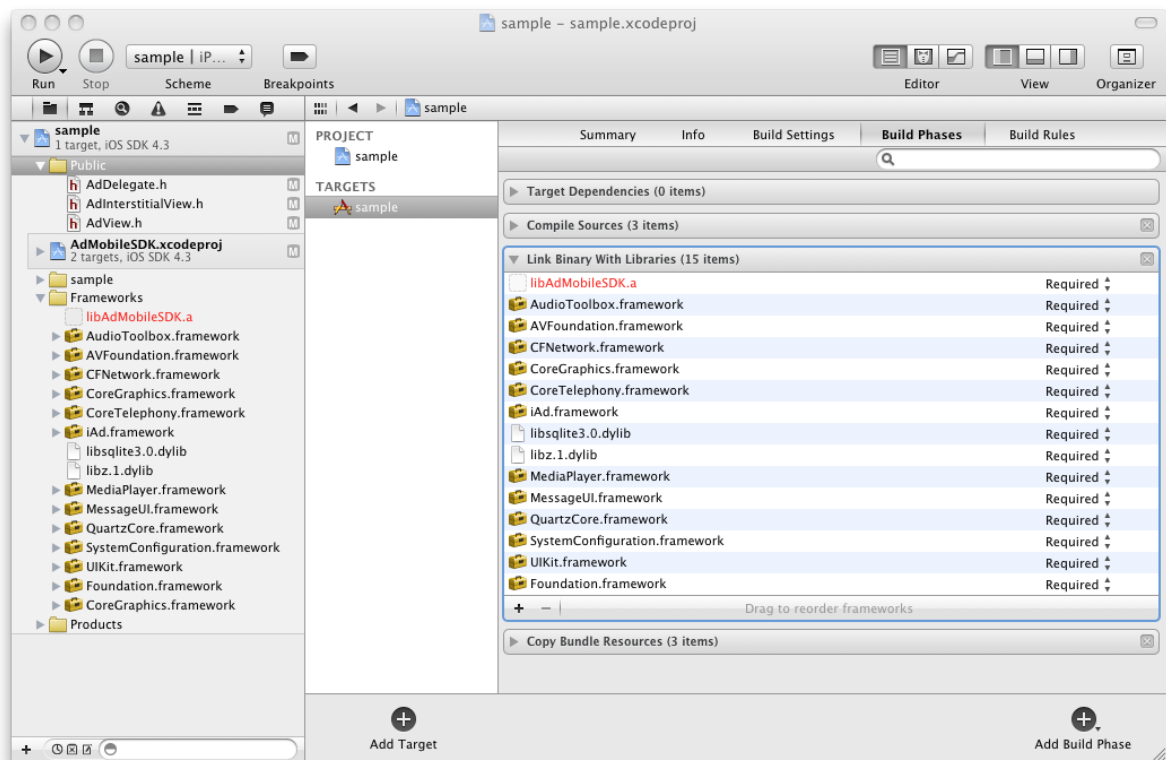


Add Frameworks and libraries to your project

Add following frameworks and libraries to you project:

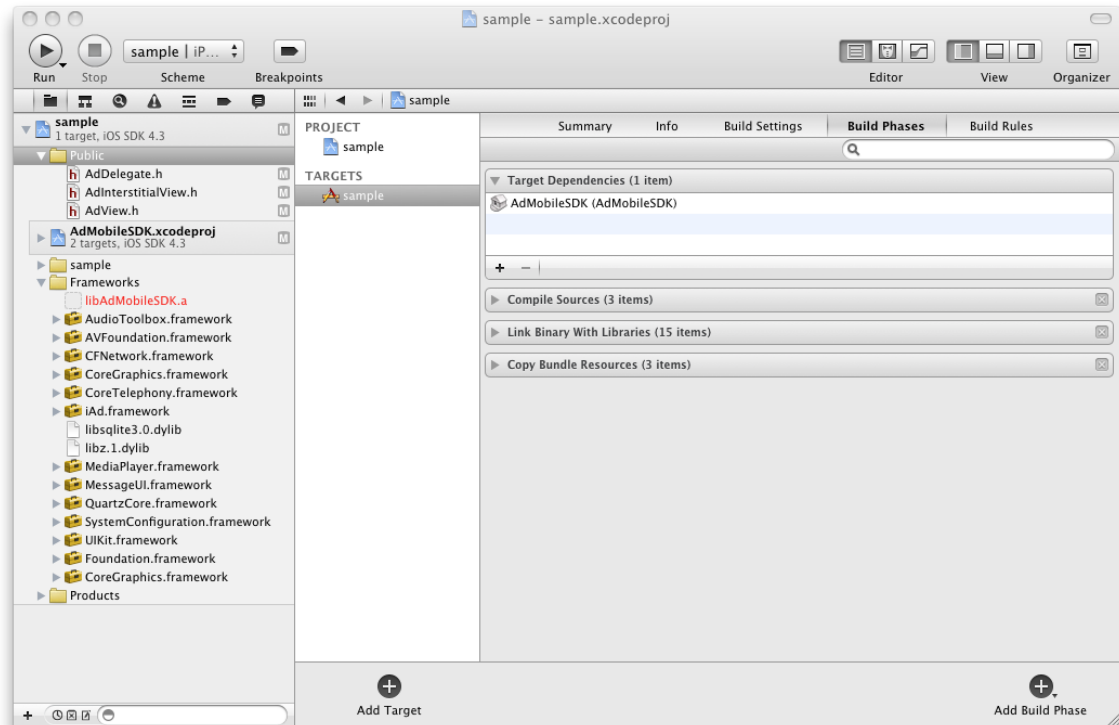
- **libAdMobileSDK.a**
- AudioToolbox
- AVFoundation
- CFNetwork
- CoreGraphics
- CoreMotion
- CoreTelephony
- iAd
- libsqlite3.0
- libz.1
- MediaPlayer
- MessageUI
- QuartzCore
- SystemConfiguration

Select Project, Target, Build Phases, then add frameworks in “Link Binary With Libraries” section



Set Target Dependencies

Select Project, Target, Build Phases, then add AdMobileSDK target in “Target Dependencies” section.



Install Documentation

SDK includes XCode documentation in “Documentation\Reference” folder.

Run installdocset.sh script in Terminal.app to copy documentation to XCode or you can use web based version of documentation in html folder

Simple AdView integration

To add AdView into your application just import AdView.h

```
#import "AdView.h"
```

And put initialize code in (void)viewDidLoad method

```
- (void)viewDidLoad {  
    AdView *adView = [[AdView alloc] initWithFrame:CGRectMake(0, 0, 320, 50) site:8061  
zone:20249];  
    [self.view addSubview:adView];  
    [adView release];  
  
    [super viewDidLoad];  
}
```

See Also:

- For more code samples see AdMobileSamples application.

Simple AdInterstitialView integration

To add AdInterstitialView into your application just import AdInterstitialView.h

```
#import "AdInterstitialView.h"
```

And put initialize code in (void)viewDidLoad method

```
- (void)viewDidLoad {  
    AdInterstitialView *adView = [[AdInterstitialView alloc] initWithFrame:CGRectMake(0,  
20, 320, 460) site:8061 zone:16112];  
    adView.minSize = CGSizeMake(320, 460);  
  
    [self.navigationController.view addSubview:adView];  
    [adView release];  
  
    [super viewDidLoad];  
}
```

For more customization you can set custom close button, delay for showing button or auto close interstitial time.

See Also:

- For more code samples see AdMobileSamples application.

Customize AdView

Customize view appearance.

1. By default in AdView enabled animation and internalOpenMode.

To disable default animation set animateMode property to NO. **Important:** you need to disable animation if you specify your own.

2. Also you can set defaultImage property to show image while ad loading.

3. Set contentAlignment property to enable auto alignment content in center vertically and horizontally.

4. Also you can apply default UIView customization such as animation, background color, support different orientations and so on.

Customize content.

1. By default in SDK disabled location auto detect. If you want to filter contents using user location set latitude and longitude property of AdView.

Also you could enable auto detect location by replacing “`#undef INCLUDE_LOCATION_MANAGER`” with «`#define INCLUDE_LOCATION_MANAGER`” in AdView.h and adding CoreLocation framework.

Important: However do not use Core Location just for advertising, make sure it is used for more beneficial reasons as well. It is both a good idea and part of Apple's guidelines.

2. To add additionally filtration you can set keywords, city, carrier, metro, etc.

Customize AdInterstitialView

Customize view appearance.

1. By default for interstitial created rounded white close button. You can customize button by setting your own.
2. To enable auto close interstitial timer set time interval `autoCloseInterstitial` property, in seconds.
3. You can delay close button displaying by setting `showCloseButtonTime` property.

Customize content.

See customize section of `AdView`

Troubleshooting

Duplicate symbol compile error

If you got compile error like this:

```
/Users/william/Library/Developer/Xcode/DerivedData/theScoreMobile-  
duqqmcmypgmaosbtjugyugkgmuir/Build/Products/Debug-  
iphones/libAdMobileSDK.a(SBJSON.o)"
```

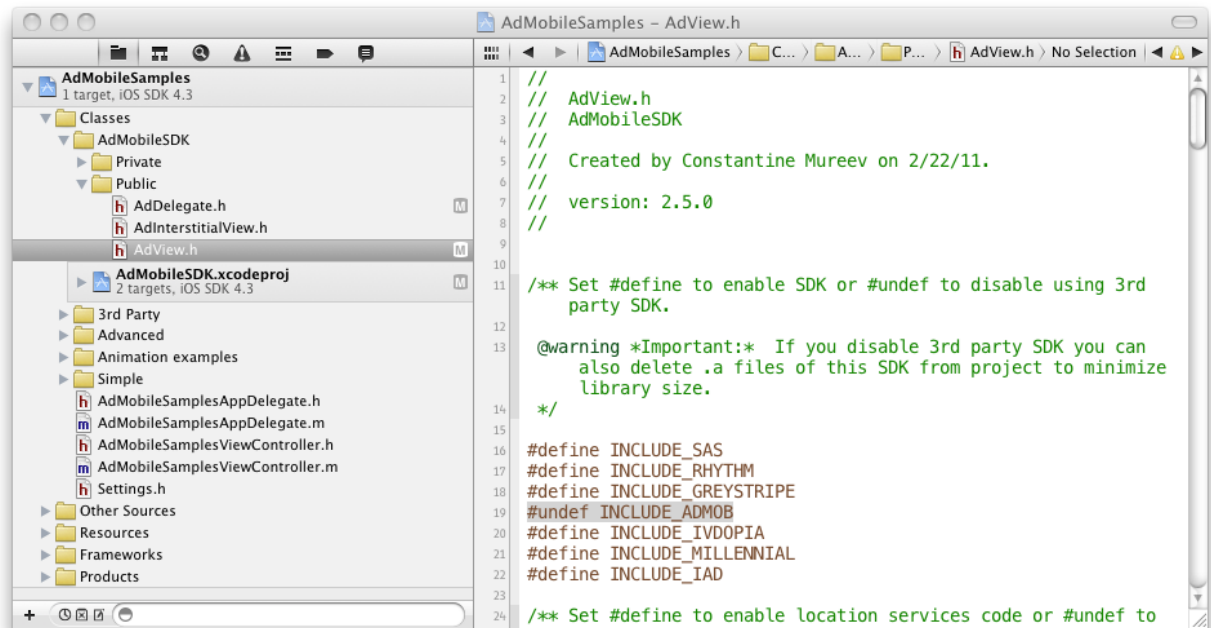
It means what your project and SDK contains files with same name. In most cases this error due to duplication some framework. In this case – SBJSON.

To solve this problem you need to remove .m files for all files than cause this error. In this case – keep SBJSON.h and remove SBJSON.m and son on...

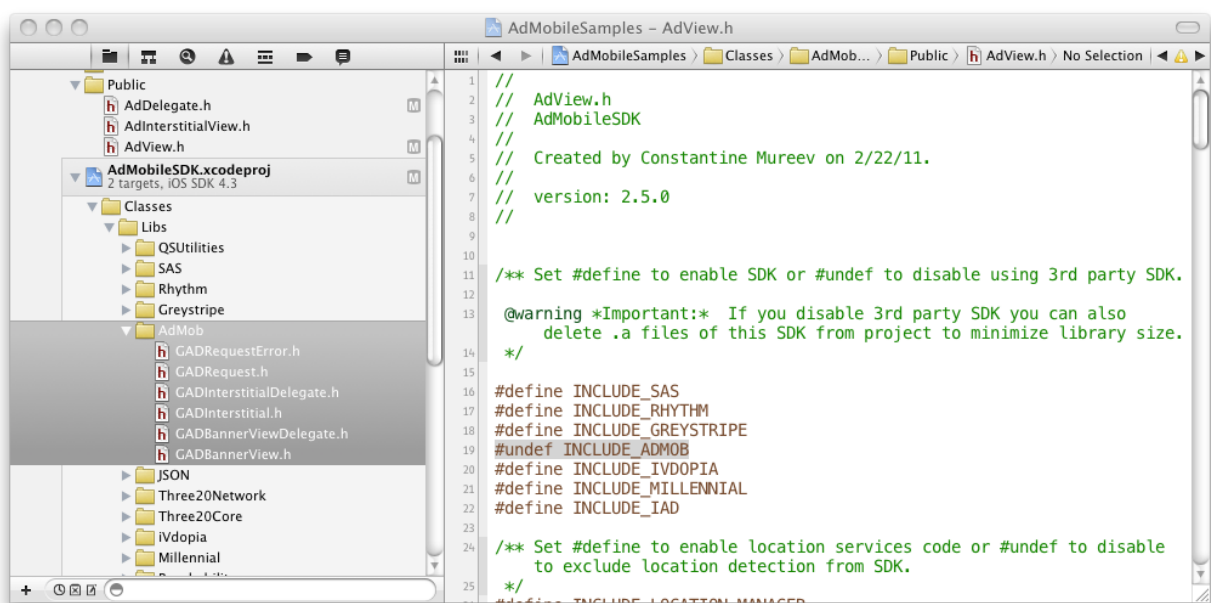
Remove 3rd party library from SDK

To remove any 3rd party SDK follow steps below. Here example how to remove Google AdMob SDK.

1. Replace "**#define INCLUDE_ADMOB**" with "**#undef INCLUDE_ADMOB**" in AdView.h file



2. Remove .a files from Google AdMob SDK in AdMobileSDK project. You can keep files and remove reference only. It's also minimize application binary size.



AdView Class Reference

Inherits from [UIView](#)

Declared in [AdView.h](#)

Overview

You use the [AdView](#) class to embed advertisement content in your application. To do so, you simply create an [AdView](#) object and add it to a [UIView](#). An instance of [AdView](#) (or simply, an ad) is a means for displaying advertisement information from ad publisher [site](#). To choose ad publisher [site](#) set parameters in the ad initialization method [initWithFrame:site:zone:](#) or use the properties [site](#) and [zone](#). Use the [adServerUrl](#) property to choose ad publisher server.

Ad handles the rendering of any content in its area: HTML, Video, Gif animation or JavaScript. Ad also handles any interactions with that content. So you can link from the banner to ad publisher [site](#). Use the [internalOpenMode](#) property to set open mode for ad publisher [site](#). To control all interactions implement [AdViewDelegate](#) protocol.

Ad always tries to load the content after creation. The time interval between load requests is managed using the property [updateTimeInterval](#). Also you can [update](#) ad content immediately using the [update](#) method. Use the [isLoading](#) property to find out if ad is in the process of loading.

To configure ad visual appearance use the properties [defaultImage](#), [textColor](#) or [contentAlignment](#). To manage the ad animation use the property [animateMode](#).

Advanced ad customization is supported. So you can filter the ad content using the [premium](#) property. Use the properties [minSize](#) and [maxSize](#) to configure ad content size in server response. Also you can set the search parameters or any other parameters using the properties [keywords](#) and [additionalParameters](#) accordingly.

To debug ad behavior use the properties [testMode](#) and [logMode](#).

Set the [delegate](#) property to an object conforming to the [AdViewDelegate](#) protocol if you want to track the processing of ad content.

Tasks

Initializing an AdView Object

- [- initWithFrame:site:zone:](#)

Configuring the AdView

- [site](#) property
- [zone](#) property
- [adServerUrl](#) property

- [defaultImage](#) *property*
- [animateMode](#) *property*
- [contentAlignment](#) *property*
- [internalOpenMode](#) *property*
- [textColor](#) *property*

Loading the AdView Content

- [isLoading](#) *property*
- [updateTimeInterval](#) *property*
- [- update](#)
- [contentSize](#) *property*

Filtering the AdView Content

- [premium](#) *property*
- [adsType](#) *property*
- [keywords](#) *property*
- [minSize](#) *property*
- [maxSize](#) *property*
- [additionalParameters](#) *property*
- [latitude](#) *property*
- [longitude](#) *property*
- [country](#) *property*
- [region](#) *property*
- [city](#) *property*
- [area](#) *property*
- [metro](#) *property*
- [zip](#) *property*
- [carrier](#) *property*

Install Notification

- [advertiserId](#) *property*
- [groupCode](#) *property*

Debug the AdView

- [testMode](#) *property*
- [logMode](#) *property*

Setting the Delegate

- [delegate](#) *property*

Properties

adServerUrl

Publisher server url.

```
@property (retain) NSString *adServerUrl
```

Discussion

Publisher server url.

The default value is <http://ads.AdMobile.mobi/ad>.

Declared In

AdView.h

additionalParameters

Custom request parameters.

```
@property (retain) NSDictionary *additionalParameters
```

Discussion

Custom request parameters.

Use this property to add custom request parameters.

The default value is nil.

Note: All keys and objects is need to be kind of NSString Class. For example:

```
[NSDictionary dictionaryWithObject:@"value" forKey:@"key"]
```

Declared In

AdView.h

adsType

Ad type filter.

```
@property AdsType adsType
```

Discussion

Ad type filter.

```
typedef enum { AdsTypeTextOnly = 1, AdsTypeImagesOnly = 2, AdsTypeImagesAndText = 3, AdsTypeSMS = 6, } AdsType;
```

Use this property to filter the content of ad by type.

The default value is AdsTypeImagesAndText.

Declared In

AdView.h

advertiserId

Id of the advertiser for install notification.

```
@property (assign) NSInteger advertiserId
```

Discussion

Id of the advertiser for install notification.

Note: Install notification enabled only if [advertiserId](#) and [groupCode](#) are specified.

Declared In

AdView.h

animateMode

A Boolean value that determines whether ad animate mode is enabled.

```
@property BOOL animateMode
```

Discussion

A Boolean value that determines whether ad animate mode is enabled.

Setting the value of this property to YES enables ad animate mode and setting it to NO disables this mode.

The default value is YES.

Declared In

AdView.h

area

Area code of a user. For US only.

```
@property (retain) NSString *area
```

Discussion

Area code of a user. For US only.

The default value is nil.

Declared In

AdView.h

carrier

User [carrier](#).

```
@property (retain) NSString *carrier
```

Discussion

User [carrier](#).

The default value is nil.

Declared In

AdView.h

city

City of the device user (with state). For US only.

```
@property (retain) NSString *city
```

Discussion

City of the device user (with state). For US only.

The default value is nil.

Declared In

AdView.h

contentAlignment

A Boolean value that determines whether content alignment center vertically and horizontally.

```
@property BOOL contentAlignment
```

Discussion

A Boolean value that determines whether content alignment center vertically and horizontally.

Setting the value of this property to YES enables auto wrapping server response content in HTML table with alignment

The default value is NO.

Important: You need to disable animation if you specify your own.

Declared In

AdView.h

contentSize

Size of the ad content to be shown.

@property (readonly) CGSize contentSize

Discussion

Size of the ad content to be shown.

Use this property to get the actual size of the ad content. Property value updated after ad content downloaded.

Note: If size unavailable (Millennial, Greystripe, iVdopia and other 3rd party SDKs) property returns CGRectZero.

Declared In

AdView.h

country

Country of visitor. It overrides [country](#) detected by IP. It is ISO 3166 to be used for specifying [country](#) code.

@property (retain) NSString *country

Discussion

Country of visitor. It overrides [country](#) detected by IP. It is ISO 3166 to be used for specifying [country](#) code.

The default value is nil.

Declared In

AdView.h

defaultImage

Image for unloaded ad state.

@property (retain) UIImage *defaultImage

Discussion

Image for unloaded ad state.

Settings the value of this property determines ad default image for unloaded state. In this state the content of ad is invisible and ad default image is displayed. Without connection to the internet default image also will be displayed.

The default value is nil.

Declared In

AdView.h

delegate

The receiver's [delegate](#).

```
@property (assign) id<AdViewDelegate> delegate
```

Discussion

The receiver's [delegate](#).

The [AdView](#) is sent messages when content is processing. The [delegate](#) must adopt the [AdViewDelegate](#) protocol. The [delegate](#) is not retained.

Important: Before releasing an instance of [AdView](#) for which you have set a [delegate](#), you must first set its [delegate](#) property to nil. This can be done, for example, in your dealloc method.

See Also

- [AdViewDelegate](#) Protocol Reference for the optional methods this [@property delegate](#) may implement.

Declared In

AdView.h

groupCode

Group code for install notification.

```
@property (retain) NSString *groupCode
```

Discussion

Group code for install notification.

Note: Install notification enabled only if [advertiserId](#) and [groupCode](#) are specified.

Declared In

AdView.h

internalOpenMode

A Boolean value that determines whether ad internal browser is enabled.

```
@property BOOL internalOpenMode
```

Discussion

A Boolean value that determines whether ad internal browser is enabled.

Setting the value of this property to NO disables internal browser, so after linking from the banner the ad publisher [site](#) will be opened in Safari.

To handle opening/closing internal browser use [AdView delegate](#) or [viewWillAppear/viewWillDisappear](#) methods of [UIViewController](#).

The default value is YES.

Declared In

AdView.h

isLoading

A Boolean value that determines whether ad is in the process of loading.

```
@property (readonly) BOOL isLoading
```

Discussion

A Boolean value that determines whether ad is in the process of loading.

Declared In

AdView.h

keywords

Keywords for search ads.

```
@property (retain) NSString *keywords
```

Discussion

Keywords for search ads.

Use this property to search ads. The values are delimited by commas.

The default value is nil.

Declared In

AdView.h

latitude

User location [latitude](#) value.

```
@property (retain) NSString *latitude
```

Discussion

User location [latitude](#) value.

Use this property to set [latitude](#). The value @"" will stop coordinates auto-detection and coordinates will not be sent to server. Any other values also will stop coordinates auto-detection but coordinates will be sent to server.

The default value is auto-detected by locationManager and sent to server.

Declared In

AdView.h

logMode

A Boolean value that determines whether ads log mode is enabled.

```
@property BOOL logMode
```


Discussion

A Boolean value that determines whether ads log mode is enabled.

Setting the value of this property to YES enables ads logging for this ad and setting it to NO disables logging.

The default value is NO.

Declared In

AdView.h

longitude

User location [longitude](#) value.

```
@property (retain) NSString *longitude
```

Discussion

User location [longitude](#) value.

Use this property to set [longitude](#). The value @" " will stop coordinates auto-detection and coordinates will not be sent to server. Any other values also will stop coordinates auto-detection but coordinates will be sent to server.

The default value is auto-detected by locationManager and sent to server.

Declared In

AdView.h

maxSize

Maximal size of the ad content to be shown.

```
@property CGSize maxSize
```

Discussion

Maximal size of the ad content to be shown.

Use this property to set the maximal size of the ad content and server response will be close to this size.

Declared In

AdView.h

metro

Metro code of a user. For US only.

```
@property (retain) NSString *metro
```

Discussion

Metro code of a user. For US only.

The default value is nil.

Declared In

AdView.h

minSize

Minimal size of the ad content to be shown.

```
@property CGSize minSize
```

Discussion

Minimal size of the ad content to be shown.

Use this property to set the minimal size of the ad content and server response will be close to this size.

Declared In

AdView.h

premium

Ad [premium](#) filter.

```
@property AdPremium premium
```

Discussion

Ad [premium](#) filter.

```
typedef enum {      AdPremiumNonPremium = 0,      AdPremiumPremium,  
AdPremiumBoth, } AdPremium;
```

Use this property to filter the content of ad by [premium](#) status.

The default value is AdPremiumNonPremium.

Declared In

AdView.h

region

Region of visitor. ISO 3166-2 is used for United States and Canada and FIBS 10-4 is used for other countries.

```
@property (retain) NSString *region
```

Discussion

Region of visitor. ISO 3166-2 is used for United States and Canada and FIBS 10-4 is used for other countries.

The default value is nil.

Declared In

AdView.h

site

Id of the publisher [site](#).

```
@property (assign) NSInteger site
```

Discussion

Id of the publisher [site](#).

Settings the value of this property determines the id of the publisher [site](#), so switching between publisher sites is possible. The default value is copied from parameter [site](#) of ad initialization method.

Declared In

AdView.h

testMode

A Boolean value that determines whether ads test mode is enabled. Setting the value of this property to YES enables ads test mode and setting it to NO disables ads test mode.

```
@property BOOL testMode
```

Discussion

A Boolean value that determines whether ads test mode is enabled. Setting the value of this property to YES enables ads test mode and setting it to NO disables ads test mode.

The default value is NO.

Declared In

AdView.h

textColor

Color of ad text links.

```
@property (retain) UIColor *textColor
```

Discussion

Color of ad text links.

The default value is nil.

Note: Alpha value ignored.

Declared In

AdView.h

updateTimeInterval

Update time interval, in seconds.

```
@property NSTimeInterval updateTimeInterval
```

Discussion

Update time interval, in seconds.

The value of this property determines time interval between ads updating. This interval is counted after finish loading content, so the ad will start updating only after loading is finished and time interval is passed.

Setting value in range from 0 to 5 will apply 5 seconds to prevent too fast ad updates.

Setting to 0 will stop updates. All positive values enable updates.

The default value is 120.

Declared In

AdView.h

zip

Zip/Postal code of user (note: parameter is all caps). For US only.

```
@property (retain) NSString *zip
```

Discussion

Zip/Postal code of user (note: parameter is all caps). For US only.

The default value is nil.

Declared In

AdView.h

zone

Id of the publisher [zone](#).

```
@property (assign) NSInteger zone
```

Discussion

Id of the publisher [zone](#).

Settings the value of this property determines the id of the publisher [zone](#), so switching between publisher zones is possible. The default value is copied from parameter [zone](#) of ad initialization method.

Declared In

AdView.h

Instance Methods

initWithFrame:site:zone:

Initializes and returns an [AdView](#) object having the given frame, [site](#) and [zone](#).

–

```
(id) initWithFrame: (CGRect) frame site: (NSInteger) site zone: (NSInteger) zone
```

Parameters

frame

A rectangle specifying the initial location and size of the ad view in its superview's coordinates.

site

A value that specifies the id of ad publisher [site](#).

zone

A value that specifies the id of ad publisher [zone](#).

Return Value

Returns an initialized [AdView](#) object or nil if the object could not be successfully initialized.

Discussion

Initializes and returns an [AdView](#) object having the given frame, [site](#) and [zone](#).

Declared In

AdView.h

update

Starts to [update](#) the ad content immediately.

– (void) update

Discussion

Starts to [update](#) the ad content immediately.

Call this method if you want [update](#) the ad content immediately (for example, after setting [site](#) and [zone](#) or changing [adServerUrl](#)). If ad is in the process of loading it will be interrupted.

Declared In

AdView.h

AdInterstitialView Class Reference

Inherits from [AdView](#) : UIView

Declared in AdInterstitialView.h

Overview

The [AdInterstitialView](#) class is subclassing of [AdView](#) with advanced customization parameters. An instance of [AdInterstitialView](#) is a means for full-screen displaying ads with specific closing.

Tasks

Customizing AdInterstitialView Closing

- [showCloseButtonTime](#) *property*
- [autocloseInterstitialTime](#) *property*
- [closeButton](#) *property*

Setting the Delegate

- [delegate](#) *property*

Properties

autocloseInterstitialTime

Auto close interstitial time interval, in seconds.

```
@property NSTimeInterval autocloseInterstitialTime
```

Discussion

Auto close interstitial time interval, in seconds.

Setting to 0 will disable auto closing interstitial.

The default value is 0.

Declared In

AdInterstitialView.h

closeButton

Interstitial close button.

```
@property (retain) UIButton *closeButton
```

Discussion

Interstitial close button.

Set this value to customize close button appearance.

Declared In

AdInterstitialView.h

delegate

The receiver's [delegate](#).

```
@property (assign) id<AdInterstitialViewDelegate> delegate
```

Discussion

The receiver's [delegate](#).

The [AdInterstitialView](#) is sent messages when content is processing. The [delegate](#) must adopt the [AdInterstitialViewDelegate](#) protocol. The [delegate](#) is not retained.

Important: Before releasing an instance of [AdInterstitialView](#) for which you have set a [delegate](#), you must first set its [delegate](#) property to nil. This can be done, for example, in your dealloc method.

See Also

- [AdInterstitialViewDelegate](#) Protocol Reference for the optional methods this `@property delegate` may implement.

Declared In

AdInterstitialView.h

showCloseButtonTime

Show close button delay time interval, in seconds.

```
@property NSTimeInterval showCloseButtonTime
```

Discussion

Show close button delay time interval, in seconds.

Setting to 0 will show close button immediately.

The default value is 0.

Declared In

AdInterstitialView.h

AdViewDelegate Protocol Reference

Conforms to NSObject

Declared in AdDelegate.h

Overview

The [AdViewDelegate](#) protocol defines methods that a delegate of a [AdView](#) object can optionally implement to receive notifications from ad.

Tasks

- [- willReceiveAd:](#)
- [- didReceiveAd:](#)
- [- didFailToReceiveAd:withError:](#)
- [- adWillStartFullScreen:](#)
- [- adDidEndFullScreen:](#)
- [- adShouldOpen:withUrl:](#)

Instance Methods

adDidEndFullScreen:

Sent after an ad view finished displaying internal browser.

- (void)adDidEndFullScreen:(id) *sender*

Parameters

sender

The ad view has finished displaying internal browser.

Discussion

Sent after an ad view finished displaying internal browser.

Declared In

AdDelegate.h

adShouldOpen:withUrl:

Sent before an ad view will start to open URL.

```
- (BOOL)adShouldOpen:(id) sender withUrl:(NSURL *) url
```

Parameters

sender

The ad view that is about to open URL.

url

The URL that should be opened in internal or external browser.

Return Value

Returns YES to allow SDK open browser otherwise returns NO.

Discussion

Sent before an ad view will start to open URL.

Implement this method with return NO value if you want to control opening ads by your self.

This method is optional. If you do not implement this method, the SDK accept YES as return value.

Important: This method may not calling on 3rd party SDKs (Millennial, Greystripe, iVdopia, ...)

Declared In

AdDelegate.h

adWillStartFullScreen:

Sent before an ad view will start to display internal browser.

```
- (void)adWillStartFullScreen:(id) sender
```

Parameters

sender

The ad view that is about to display internal browser.

Discussion

Sent before an ad view will start to display internal browser.

Important: This method called after [adShouldOpen:withUrl:](#) returns YES or not implemented.

Important: This method is not called on opening ads in Safari (internalOpenMode set to NO). To handle this behaviour implement UIApplicationDelegate protocol

Declared In

AdDelegate.h

didFailToReceiveAd:withError:

Sent if an ad view failed to load ad content.

```
- (void)didFailToReceiveAd:(id) sender withError:(NSError *) error
```

Parameters

sender

The ad view that failed to load ad content.

error

The error that occurred during loading.

Discussion

Sent if an ad view failed to load ad content.

Declared In

AdDelegate.h

didReceiveAd:

Sent after an ad view finished loading ad content.

```
- (void)didReceiveAd:(id) sender
```

Parameters

sender

The ad view has finished loading.

Discussion

Sent after an ad view finished loading ad content.

Declared In

AdDelegate.h

willReceiveAd:

Sent before an ad view will begin loading ad content.

```
- (void)willReceiveAd:(id) sender
```

Parameters

sender

The ad view that is about to load ad content.

Discussion

Sent before an ad view will begin loading ad content.

Declared In

AdDelegate.h

AdInterstitialViewDelegate Protocol Reference

Conforms to [AdViewDelegate](#)

Declared in AdDelegate.h

Overview

The [AdInterstitialViewDelegate](#) protocol defines methods that a delegate of a [AdInterstitialView](#) object can optionally implement to receive notifications from ad.

Tasks

- [- didClosedInterstitialAd:usageTimeInterval:](#)

Instance Methods

didClosedInterstitialAd:usageTimeInterval:

Sent after an ad interstitial view closed and tracks the usage time of ad interstitial view.

–

```
(void) didClosedInterstitialAd: (id) sender usageTimeInterval: (NSTimeInterval) usageTimeInterval
```

Parameters

sender

The ad interstitial view was closed.

usageTimeInterval

The usage time interval of ad interstitial view.

Discussion

Sent after an ad interstitial view closed and tracks the usage time of ad interstitial view.

Declared In

AdDelegate.h