

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 loagging.

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. <u>See more.</u>

• 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.

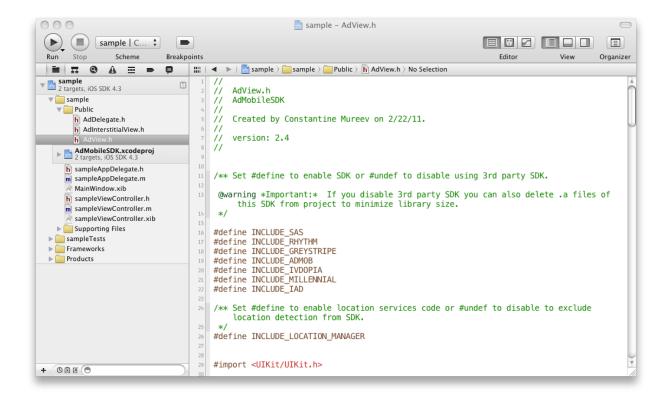


Installing the Ad SDK

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"...



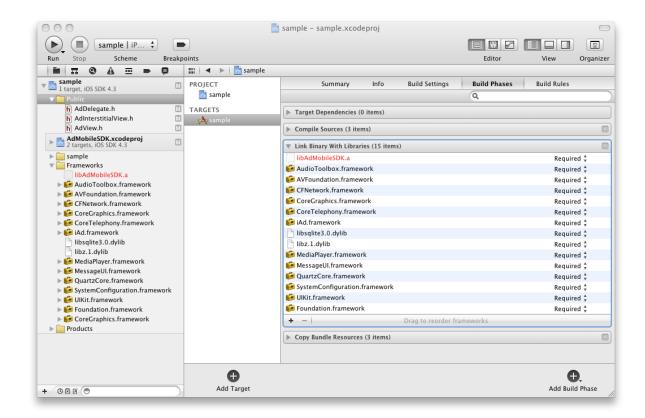


Add Frameworks and libraries to your project

Add following frameworks and libraries to you project:

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

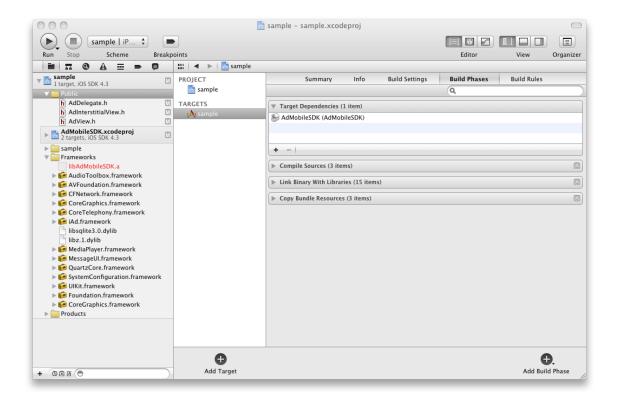
Select Project, Target, Build Phases, then add frameworks in "Link Binary With Libraries" section





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.

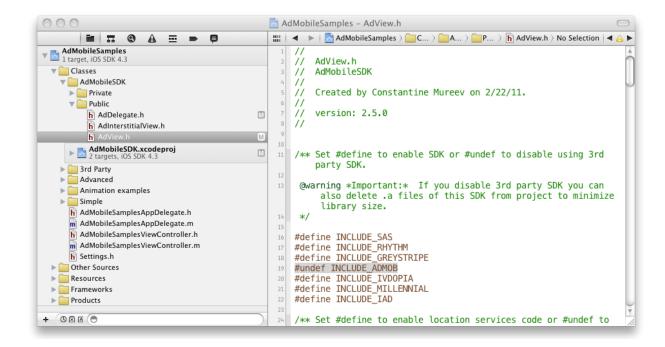
See customize section of AdView



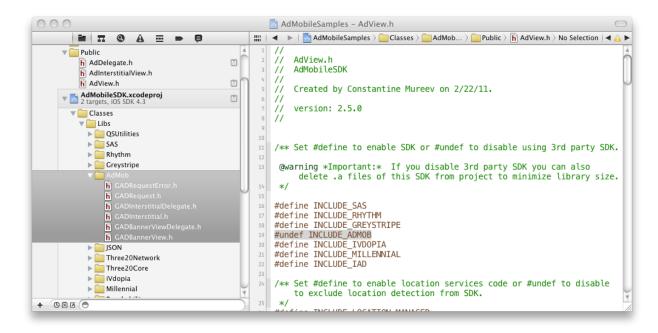
Remove 3rd party library from SDK

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

 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 <u>AdView</u> class to embed advertisement content in your application. To do so, you simply create an <u>AdView</u> object and add it to a UIView. An instance of <u>AdView</u> (or simply, an ad) is a means for displaying advertisement information from ad publisher <u>site</u>. To choose ad publisher <u>site</u> set parameters in the ad initialization method <u>initWithFrame:site:zone:</u> or use the properties <u>site</u> and <u>zone</u>. Use the <u>adServerUrl</u> 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 <u>site</u>. Use the <u>internalOpenMode</u> property to set open mode for ad publisher <u>site</u>. To control all intercations implementAdViewDelegate protocol.

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

To configure ad visual appearance use the properties <u>defaultImage</u>, <u>textColor</u> or <u>contentAlignment</u>. To manage the ad animation use the property <u>animateMode</u>.

Advanced ad customization is supported. So you can filter the ad content using the <u>premium</u> property. Use the properties <u>minSize</u> and <u>maxSize</u> to configure ad content size in server response. Also you can set the search parameters or any other parameters using the properties keywords and additionalParametersaccordingly.

To debug ad behavior use the properties testMode and logMode.

Set the <u>delegate</u> property to an object conforming to the <u>AdViewDelegate</u> 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
- <u>internalOpenMode</u> 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
- <u>carrier</u> property

Install Notification

- advertiserId *property*
- groupCode property

Debug the AdView

- testMode property
- logMode *property*

Setting the Delegate

• <u>delegate</u> 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 <u>advertiserId</u> and <u>groupCode</u> 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



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 alingment center vertically and horizontally.

@property BOOL contentAlignment

Discussion

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

Setting the value of this property to YES enables auto warapping server reponse content in HTML table with aligment

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 <u>country</u> detected by IP. It is ISO 3166 to be used for specifying <u>country</u> code.

@property (retain) NSString *country

Discussion

Country of visitor. It overrides <u>country</u> detected by IP. It is ISO 3166 to be used for specifying <u>country</u> 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 <u>AdView</u> is sent messages when content is processing. The <u>delegate</u> must adopt the <u>AdViewDelegate</u> protocol. The <u>delegate</u> is not retained.

Important: Before releasing an instance of <u>AdView</u> for which you have set a <u>delegate</u>, you must first set its <u>delegate</u> property to nil. This can be done, for example, in your dealloc method.

See Also

• <u>AdViewDelegate</u> 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 <u>site</u> will be opened in Safari.

To handle opening/closing internal browser use <u>AdView delegate</u> or viewWillAppear/viewWillDisappear methods of UIViewController.

The default value is YES.

Declared In



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 <u>latitude</u>. 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 <u>longitude</u>. 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.

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 <u>site</u>, so switching between publisher sites is possible. The default value is copied from parameter <u>site</u> 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



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 <u>zone</u>, so switching between publisher zones is possible. The default value is copied from parameter <u>zone</u> of ad initialization method.

Declared In



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 <u>update</u> 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



AdInterstitialView Class Reference

Inherits from AdView: UIView

Declared in AdInterstitialView.h

, tames and the time

Overview

The <u>AdInterstitialView</u> class is subclassing of <u>AdView</u> with advanced customization parameters. An instance of <u>AdInterstitialView</u> is a means for full-screen displaying ads with specific closing.

Tasks

Customizing AdInterstitialView Closing

- showCloseButtonTime property
- <u>autocloseIntersti</u>tialTime 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 <u>delegate</u>.

@property (assign) id<AdInterstitialViewDelegate> delegate

Discussion

The receiver's delegate.

The <u>AdInterstitialView</u> is sent messages when content is processing. The <u>delegate</u> must adopt the <u>AdInterstitialViewDelegate</u> protocol. The <u>delegate</u> is not retained.

Important: Before releasing an instance of <u>AdInterstitialView</u> for which you have set a <u>delegate</u>, you must first set its <u>delegate</u> property to nil. This can be done, for example, in your dealloc method.

See Also

• <u>AdInterstitialViewDelegate</u> Protocol Reference for the optional methods this <u>@property delegate</u> 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 <u>AdViewDelegate</u> protocol defines methods that a delegate of a <u>AdView</u> 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	<u>AdViewDelegate</u>
Declared in	AdDelegate.h

Overview

The <u>AdInterstitialViewDelegate</u> protocol defines methods that a delegate of a <u>AdInterstitialView</u> 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