Discover

Design

Develop

Distribute

Support

Account

Instance Method

performSelectorOnMainThread:withObject:waitUntil Done:

Invokes a method of the receiver on the main thread using the default mode.

- (void)performSelectorOnMainThread:(SEL)aSelector

Language

Swift Objective-C

SDKs

iOS 2.0+

macOS 10.2+

tvOS 9.0+

watchOS 2.0+

On This Page

Declaration ⊙

Parameters ⊙
Discussion ⊙

See Also ⊙

Parameters

Declaration

aSelector

A Selector that identifies the method to invoke. The method should not have a significant return value and should take a single argument of type id, or no arguments.

withObject:(id)arg
waitUntilDone:(BOOL)wait;

arg

The argument to pass to the method when it is invoked. Pass nil if the method does not take an argument.

wait

A Boolean that specifies whether the current thread blocks until after the specified selector is performed on the receiver on the main thread. Specify YES to block this thread; otherwise, specify NO to have this method return immediately.

If the current thread is also the main thread, and you ensait, VEC for this parameter, the

API Reference

Foundation > NSObject > performSelectorOnMainThre..

No API Change:

Discussion

You can use this method to deliver messages to the main thread of your application. The main thread encompasses the application's main run loop, and is where the NSApplication object receives events. The message in this case is a method of the current object that you want to execute on the thread.

This method queues the message on the run loop of the main thread using the common run loop modes—that is, the modes associated with the NSRunLoopCommonModes constant. As part of its normal run loop processing, the main thread dequeues the message (assuming it is running in one of the common run loop modes) and invokes the desired method. Multiple calls to this method from the same thread cause the corresponding selectors to be queued and performed in the same same order in which the calls were made.

You cannot cancel messages queued using this method. If you want the option of canceling a message on the current thread, you must use either the performSelector:withObject:afterDelay:orperformSelector:withObject:afterDelay:inModes: method.

Special Considerations

This method registers with the runloop of its current context, and depends on that runloop being run on a regular basis to perform correctly. One common context where you might call this method and end up registering with a runloop that is not automatically run on a regular basis is when being invoked by a dispatch queue. If you need this type of functionality when running on a dispatch queue, you should use dispatch_after and related methods to get the behavior you want.

See Also

Related Symbols

- performSelector:withObject:afterDelay:inModes:
 Invokes a method of the receiver on the current thread using the specified modes after a delay.
- performSelector:withObject:afterDelay:
 Invokes a method of the receiver on the current thread using the default mode after a delay.
- performSelector:onThread:withObject:waitUntilDone:modes:
 Invokes a method of the receiver on the specified thread using the specified modes.
- performSelectorOnMainThread:withObject:waitUntilDone:modes:
 Invokes a method of the receiver on the main thread using the specified modes.