**iOS “Hamburger Menu” API**

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* [AppKit](https://developer.apple.com/reference/appkit)
* NSMenu
* No API Changes

Class

NSMenu

An NSMenu object manages an application’s menus.

**Language**

* Swift
* [Objective-C](https://developer.apple.com/reference/appkit/nsmenu?language=objc)

**SDK**

* macOS 10.10+

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Symbols

Managing the Menu Bar

[class func menuBarVisible()](https://developer.apple.com/reference/appkit/nsmenu/1518236-menubarvisible)

Returns a Boolean value that indicates whether the menu bar is visible.

[class func setMenuBarVisible(Bool)](https://developer.apple.com/reference/appkit/nsmenu/1518200-setmenubarvisible)

Sets whether the menu bar is visible and selectable by the user.

[var menuBarHeight: CGFloat](https://developer.apple.com/reference/appkit/nsmenu/1518141-menubarheight)

The menu bar height for the main menu in pixels.

Creating an NSMenu Object

[init(title: String)](https://developer.apple.com/reference/appkit/nsmenu/1518144-init)

Initializes and returns a menu having the specified title and with autoenabling of menu items turned on.

Adding and Removing Menu Items

[func insertItem(NSMenuItem, at: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518201-insertitem)

Inserts a menu item into the menu at a specific location.

[func insertItem(withTitle: String, action: Selector?, keyEquivalent: String, at: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518146-insertitem)

Creates and adds a menu item at a specified location in the menu.

[func addItem(NSMenuItem)](https://developer.apple.com/reference/appkit/nsmenu/1518176-additem)

Adds a menu item to the end of the menu.

[func addItem(withTitle: String, action: Selector?, keyEquivalent: String)](https://developer.apple.com/reference/appkit/nsmenu/1518181-additem)

Creates a new menu item and adds it to the end of the menu.

[func removeItem(NSMenuItem)](https://developer.apple.com/reference/appkit/nsmenu/1518257-removeitem)

Removes a menu item from the menu.

[func removeItem(at: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518207-removeitem)

Removes the menu item at a specified location in the menu.

[func itemChanged(NSMenuItem)](https://developer.apple.com/reference/appkit/nsmenu/1518154-itemchanged)

Invoked when a menu item is modified visually (for example, its title changes).

[func removeAllItems()](https://developer.apple.com/reference/appkit/nsmenu/1518234-removeallitems)

Removes all the menu items in the menu.

Finding Menu Items

[func item(withTag: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518223-item)

Returns the first menu item in the menu with the specified tag.

[func item(withTitle: String)](https://developer.apple.com/reference/appkit/nsmenu/1518248-item)

Returns the first menu item in the menu with a specified title.

[func item(at: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518218-item)

Returns the menu item at a specific location of the menu.

[var numberOfItems: Int](https://developer.apple.com/reference/appkit/nsmenu/1518202-numberofitems)

The number of menu items in the menu, including separator items.

[var items: [NSMenuItem]](https://developer.apple.com/reference/appkit/nsmenu/1518186-items)

An array containing the menu items in the menu.

Finding Indices of Menu Items

[func index(of: NSMenuItem)](https://developer.apple.com/reference/appkit/nsmenu/1518178-index)

Returns the index identifying the location of a specified menu item in the menu.

[func indexOfItem(withTitle: String)](https://developer.apple.com/reference/appkit/nsmenu/1518237-indexofitem)

Returns the index of the first menu item in the menu that has a specified title.

[func indexOfItem(withTag: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518164-indexofitem)

Returns the index of the first menu item in the menu identified by a tag.

[func indexOfItem(withTarget: Any?, andAction: Selector?)](https://developer.apple.com/reference/appkit/nsmenu/1518153-indexofitem)

Returns the index of the first menu item in the menu that has a specified action and target.

[func indexOfItem(withRepresentedObject: Any)](https://developer.apple.com/reference/appkit/nsmenu/1518175-indexofitem)

Returns the index of the first menu item in the menu that has a given represented object.

[func indexOfItem(withSubmenu: NSMenu?)](https://developer.apple.com/reference/appkit/nsmenu/1518216-indexofitem)

Returns the index of the menu item in the menu with the given submenu.

Managing Submenus

[func setSubmenu(NSMenu?, for: NSMenuItem)](https://developer.apple.com/reference/appkit/nsmenu/1518194-setsubmenu)

Assigns a menu to be a submenu of the menu controlled by a given menu item.

[func submenuAction(Any?)](https://developer.apple.com/reference/appkit/nsmenu/1518179-submenuaction)

The action method assigned to menu items that open submenus.

[var supermenu: NSMenu?](https://developer.apple.com/reference/appkit/nsmenu/1518204-supermenu)

The parent menu that contains the menu as a submenu.

[~~var isTornOff: Bool~~](https://developer.apple.com/reference/appkit/nsmenu/1518190-istornoff)

Indicates whether the menu is offscreen or attached to another menu (or if it’s the main menu).

Deprecated

Enabling and Disabling Menu Items

[var autoenablesItems: Bool](https://developer.apple.com/reference/appkit/nsmenu/1518227-autoenablesitems)

Indicates whether the menu automatically enables and disables its menu items.

[func update()](https://developer.apple.com/reference/appkit/nsmenu/1518249-update)

Enables or disables the menu items of the menu based on the NSMenuValidation informal protocol and sizes the menu to fit its current menu items if necessary.

Getting and Setting the Menu Font

[var font: NSFont!](https://developer.apple.com/reference/appkit/nsmenu/1518230-font)

The font of the menu and its submenus.

Handling Keyboard Equivalents

[func performKeyEquivalent(with: NSEvent)](https://developer.apple.com/reference/appkit/nsmenu/1518198-performkeyequivalent)

Performs the action for the menu item that corresponds to the given key equivalent.

Simulating Mouse Clicks

[func performActionForItem(at: Int)](https://developer.apple.com/reference/appkit/nsmenu/1518210-performactionforitem)

Causes the application to send the action message of a specified menu item to its target.

Managing the Title

[var title: String](https://developer.apple.com/reference/appkit/nsmenu/1518192-title)

The title of the menu.

Configuring Menu Size

[var minimumWidth: CGFloat](https://developer.apple.com/reference/appkit/nsmenu/1518221-minimumwidth)

The minimum width of the menu in screen coordinates.

[var size: NSSize](https://developer.apple.com/reference/appkit/nsmenu/1518185-size)

The size of the menu in screen coordinates

Getting Menu Properties

[var propertiesToUpdate: NSMenuProperties](https://developer.apple.com/reference/appkit/nsmenu/1518245-propertiestoupdate)

The available properties for the menu.

Managing Menu Change Notifications

[~~var menuChangedMessagesEnabled: Bool~~](https://developer.apple.com/reference/appkit/nsmenu/1518148-menuchangedmessagesenabled)

Indicates whether messages are sent to the application’s windows each time the menu changes.

Deprecated

Displaying Contextual Menus

[var allowsContextMenuPlugIns: Bool](https://developer.apple.com/reference/appkit/nsmenu/1518220-allowscontextmenuplugins)

Indicates whether the pop-up menu allows appending of contextual menu plug-in items.

Displaying Context-Sensitive Help

[class func popUpContextMenu(NSMenu, with: NSEvent, for: NSView)](https://developer.apple.com/reference/appkit/nsmenu/1518170-popupcontextmenu)

Displays a contextual menu over a view for an event.

[class func popUpContextMenu(NSMenu, with: NSEvent, for: NSView, with: NSFont?)](https://developer.apple.com/reference/appkit/nsmenu/1518165-popupcontextmenu)

Displays a contextual menu over a view for an event using a specified font.

[~~func helpRequested(with: NSEvent)~~](https://developer.apple.com/reference/appkit/nsmenu/1518188-helprequested)

Overridden by subclasses to implement specialized context-sensitive help behavior.

Deprecated

[func popUp(positioning: NSMenuItem?, at: NSPoint, in: NSView?)](https://developer.apple.com/reference/appkit/nsmenu/1518212-popup)

Pops up the menu at the specified location.

Managing Display of the State Column

[var showsStateColumn: Bool](https://developer.apple.com/reference/appkit/nsmenu/1518253-showsstatecolumn)

Indicates whether the menu displays the state column.

Controlling Allocation Zones

[~~class func menuZone()~~](https://developer.apple.com/reference/appkit/nsmenu/1518143-menuzone)

Returns the zone from which NSMenu objects should be allocated.

Deprecated

Handling Highlighting

[var highlightedItem: NSMenuItem?](https://developer.apple.com/reference/appkit/nsmenu/1518222-highlighteditem)

Indicates the currently highlighted item in the menu.

Managing the User Interface

[var userInterfaceLayoutDirection: NSUserInterfaceLayoutDirection](https://developer.apple.com/reference/appkit/nsmenu/1518254-userinterfacelayoutdirection)

Configures the layout direction of menu items in the menu.

Managing the Delegate

[var delegate: NSMenuDelegate?](https://developer.apple.com/reference/appkit/nsmenu/1518169-delegate)

The delegate of the menu.

Handling Tracking

[func cancelTracking()](https://developer.apple.com/reference/appkit/nsmenu/1518150-canceltracking)

Dismisses the menu and ends all menu tracking.

[func cancelTrackingWithoutAnimation()](https://developer.apple.com/reference/appkit/nsmenu/1518244-canceltrackingwithoutanimation)

Dismisses the menu and ends all menu tracking without displaying the associated animation.

Constants

[NSMenuProperties](https://developer.apple.com/reference/appkit/nsmenuproperties)

These constants are used as a bitmask for specifying a set of menu or menu item properties, and are contained by the [propertiesToUpdate](https://developer.apple.com/reference/appkit/nsmenu/1518245-propertiestoupdate) property.

Notifications

[static let NSMenuDidAddItem: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518219-nsmenudidadditem)

Posted after a menu item is added to the menu.

[static let NSMenuDidChangeItem: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518157-nsmenudidchangeitem)

Posted after a menu item in the menu changes appearance.

[static let NSMenuDidBeginTracking: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518209-nsmenudidbegintracking)

Posted when menu tracking begins.

[static let NSMenuDidEndTracking: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518162-nsmenudidendtracking)

Posted when menu tracking ends, even if no action is sent.

[static let NSMenuDidRemoveItem: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518196-nsmenudidremoveitem)

Posted after a menu item is removed from the menu.

[static let NSMenuDidSendAction: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518258-nsmenudidsendaction)

Posted just after the application dispatches a menu item’s action method to the menu item’s target.

[static let NSMenuWillSendAction: NSNotification.Name](https://developer.apple.com/reference/foundation/nsnotification.name/1518171-nsmenuwillsendaction)

Posted just before the application dispatches a menu item’s action method to the menu item’s target.

Initializers

[init(coder: NSCoder)](https://developer.apple.com/reference/appkit/nsmenu/1644714-init)

Relationships

Inherits From

[NSObject](https://developer.apple.com/reference/objectivec/nsobject)

Conforms To

* [CVarArg](https://developer.apple.com/reference/swift/cvararg)
* [Equatable](https://developer.apple.com/reference/swift/equatable)
* [Hashable](https://developer.apple.com/reference/swift/hashable)
* [NSAccessibility](https://developer.apple.com/reference/appkit/nsaccessibility)
* [NSAccessibilityElementProtocol](https://developer.apple.com/reference/appkit/nsaccessibilityelementprotocol)
* [NSCoding](https://developer.apple.com/reference/foundation/nscoding)
* [NSCopying](https://developer.apple.com/reference/foundation/nscopying)
* [NSUserInterfaceItemIdentification](https://developer.apple.com/reference/appkit/nsuserinterfaceitemidentification)

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