AppKit / NSSlider

Class

NSSlider

A display of a bar representing a continuous range of numerical values and a knob representing the currently selected value.

macOS

```
@MainActor
class NSSlider
```

Overview

A slider is a UI element that displays a range of values in the app. Sliders can be vertical or horizontal bars or circular dials. An indicator, or knob, notes the current setting. The user can move the knob in the slider's bar—or rotate the knob in a circular slider—to change the setting.

The NSSlider class uses the NSSliderCell class to implement its user interface.

Topics

Creating sliders

convenience init(target: Any?, action: Selector?)

    Creates a continuous horizontal slider whose values range from 0.0 to 1.0.

convenience init(value: Double, minValue: Double, maxValue: Double, target: Any?, action: Selector?)

    Creates a continuous horizontal slider that represents values over the specified range.

Managing the slider's appearance

var sliderType: NSSlider.SliderType

The type of the slider, such as vertical or circular.

enum SliderType

The types of sliders, used by <u>sliderType</u>.

var altIncrementValue: Double

The amount by which the slider changes its value when the user Option-drags the slider knob.

var knobThickness: CGFloat

The knob's thickness, in pixels.

var isVertical: Bool

An integer indicating the orientation (horizontal or vertical) of the slider.

var trackFillColor: NSColor?

The color of the filled portion of the slider track, in appearances that support it.

var tintProminence: NSTintProminence

The tint prominence of the slider. The automatic behavior for a regular slider tints its track fill, while a slider with tick marks is untinted. Setting the tint prominence will override this default behavior and choose an explicit track fill tint behavior. See <u>NSTintProminence</u> for a list of possible values.

enum NSTintProminence

Controls how strongly the tint color applies in a view.

Asking about the value limits

var maxValue: Double

The maximum value the slider can send to its target.

var minValue: Double

The minimum value the slider can send to its target.

Handling mouse-down events

```
func acceptsFirstMouse(for: NSEvent?) -> Bool
```
Returns a Boolean value indicating whether a mouse-down event both activates the window and starts dragging the slider's knob.

Managing tick marks

```
var allowsTickMarkValuesOnly: Bool
```
A Boolean value that indicates whether the slider fixes its values to those values represented by its tick marks.

```
func closestTickMarkValue(toValue: Double) -> Double
```
Returns the value of the tick mark closest to the specified value.

```
func indexOfTickMark(at: NSPoint) -> Int
```
Returns the index of the tick mark closest to the location of the slider represented by the given point.

```
var numberOfTickMarks: Int
```
The number of tick marks associated with the slider.

```
func rectOfTickMark(at: Int) -> NSRect
```
Returns the bounding rectangle of the tick mark at the given index.

```
var tickMarkPosition: NSSlider.TickMarkPosition
```
Determines where the slider's tick marks are displayed.

```
enum TickMarkPosition
```
The position where a linear slider's tick marks appear (above, below, leading, or trailing).

```
func tickMarkValue(at: Int) -> Double
```
Returns the slider's value represented by the tick mark at the specified index.

Instance Properties

```
var neutralValue: Double
```
The value this slider will be filled from. This slider will be filled from its `neutralValue` to its current value. If `neutralValue` has not been explicitly set before, access to `neutralValue` will return `minValue`.

Relationships

Inherits From

NSControl

Conforms To

CVarArg
CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSAccessibilityElementProtocol
NSAccessibilityProtocol
NSAccessibilitySlider
NSAnimatablePropertyContainer
NSAppearanceCustomization
NSCoding
NSDraggingDestination
NSObjectProtocol
NSStandardKeyBindingResponding
NSTouchBarProvider
NSUserActivityRestoring
NSUserInterfaceItemIdentification
Sendable
SendableMetatype