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## iosSlider – Touch Enabled jQuery Horizontal Slider Plugin

iosSlider is a [jQuery](#) plugin which allows you to integrate a customizable, cross-browser content slider into your web presence. Designed for use as a **content slider**, **carousel**, **scrolling website banner**, or **image gallery**.

Download iosSlider

**Version:** 1.1.63 (03/02/13)

**User Rating:**

4.7 out of 5 stars

Touch Me.

Hardware accelerated using

CSS3 for supported iOS,

Android and WebKit

### Features

Hardware accelerated

using CSS3 for supported iOS, Android and WebKit browsers.

Responsive support

to work with the most dynamic desktop and mobile sites.

Tons of API callbacks

to get the perfect slider feel for your web application.

FF/Safari/Chrome/IE7+

Full modern browser support for desktop.

Infinitely looping

Loop through your slides endlessly in both directions.

Auto-sliding

Set your slider to automatically transition and pause on hover.

### Browser Support Details

Full Support

Partial Support

**Firefox Safari Chrome Internet Explorer iOS Safari Android**

5.0+	5.0+	19.0+	7+	4.0+	2.3+
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iosSlider may work in earlier versions of browsers listed above, but are not included in testing at this time.

### Tutorial

#### Getting Ready

To get started, you will need to download the iosSlider script. Click [here](#) to download the latest version. This download contains the iosSlider script, the jQuery library, and source files for the examples shown above.

#### Include the Necessary JavaScript Files

The [jQuery](#) library and iosSlider Plugin scripts must be included in the HTML header of the web page. The jQuery library must be included first for the iosSlider plugin to function.

```
<!-- jQuery library -->
<script type = 'text/javascript' src = '/iosSlider/jquery-1.7.min.js'></script>

<!-- iosSlider plugin -->
<script type = 'text/javascript' src = '/iosSlider/jquery.iosslider.js'></script>
```

### Add the HTML

Add the iosSlider HTML code within the body of the web page. The HTML can contain as little as one slide element, but if you want to leverage the *snapToChildren* setting, you will need to use multiple slides.

```
<!-- slider container -->
<div class = 'iosSlider'>

    <!-- slider -->
    <div class = 'slider'>

        <!-- slides -->
        <div class = 'slide'>...</div>
        <div class = 'slide'>...</div>
        <div class = 'slide'>...</div>

    </div>

</div>
```

### Add the CSS

Place the CSS in your stylesheet. The *required* CSS attributes are included to guarantee optimal performance. Feel free to apply as many other CSS attributes as you want. To see some *real-world* examples of this, check the demos folder of the [iosSlider](#) download.

```
/* slider container */
.iosSlider {
    /* required */
    position: relative;
    top: 0;
    left: 0;
    overflow: hidden;

    width: <slider width>px;
    height: <slider height>px;
}

/* slider */
.iosSlider .slider {
    /* required */
    width: 100%;
    height: 100%;
}

/* slide */
.iosSlider .slider .slide {
    /* required */
    float: left;

    width: <slide width>px;
    height: <slide height>px;
}
```

### Add the JavaScript

Add the code below to your JavaScript file. The following code uses the jQuery selector to fire the iosSlider jQuery plugin. If you are unfamiliar with jQuery, here is [a tutorial](#) to get you started.

```
$(document).ready(function() {

    /* basic - default settings */
    $('.iosSlider').iosSlider();

    /* some custom settings */
    $('.iosSlider').iosSlider({
        snapToChildren: true,
        scrollbar: true,
        scrollbarHide: false,
        desktopClickDrag: true,
        scrollbarLocation: 'bottom',
        scrollbarHeight: '6px',
        scrollbarBackground: 'url(_img/some-img.png) repeat 0 0',
        scrollbarBorder: '1px solid #000',
        scrollbarMargin: '0 30px 16px 30px',
        scrollbarOpacity: '0.75',
        onSlideChange: changeSlideIdentifier
    });

});
```

## Settings & Options

You can pass along any of the following key/value pairs listed below to the iosSlider() function or modify them within the iosSlider JavaScript file directly.

### Basic Settings & Options

Key	Value	Description
elasticPullResistance	0.6	(decimal, 0.0 - 1.0) The elastic resistance when pulling on the slider edge.
frictionCoefficient	0.92	(decimal, 0.0 - 1.0) The friction coefficient applied to the momentum on touch release affecting the rate of deceleration.
elasticFrictionCoefficient	0.6	(decimal, 0.0 - 1.0) Additional friction coefficient applied when momentum slides outside the bounds of the slider.
snapFrictionCoefficient	0.92	(decimal, 0.0 - 1.0) Friction applied to the slider when snapping to an element.
snapToChildren	false	(boolean) Slider will slide to the closest child element on touch release.
snapSlideCenter	false	(boolean) When snapToChildren is true, this option will snap the slide to the center of the draggable area.
startAtSlide	1	(integer) Current slide when slider is initially loaded.
scrollbar	false	(boolean) Show or hide the scrollbar.
scrollbarDrag	false	(boolean) Enables click/drag, touch/drag functionality on the scrollbar. When enabled, the options scrollbar and scrollbarHide are automatically set to true and false respectively.
scrollbarHide	true	(boolean) Show or hide the scrollbar when it is idle.
scrollbarLocation	'top'	(string, 'bottom' or 'top') Location that the scrollbar will appear.
scrollbarContainer	"	(string) A jQuery selection (ex. \$('#scrollbarContainer') ), the scrollbar will be loaded and contained by this selection. The scrollbar width will be defined by this container.
scrollbarOpacity	0.4	(decimal) The css opacity of the scrollbar when visible.
scrollbarHeight	'4px'	(string) The css height in 'px' of the scrollbar.
scrollbarBorder	'none'	(string) The css border of the scrollbar.
scrollbarMargin	'5px'	(string) The css margin of the scrollbar.
scrollbarBackground	'none'	(string) The css background of the scrollbar.
scrollbarBorderRadius	'100px'	(string) The css border-radius of the scrollbar.
scrollbarShadow	'none'	(string) The css box-shadow of the scrollbar.
scrollbarElasticPullResistance	0.9	(decimal, 0.0 - 1.0) Additional friction coefficient applied to the scrollbar when momentum/user moves slides outside the bounds of the slider.
desktopClickDrag	false	(boolean) Desktop click and drag fallback for the desktop slider.
keyboardControls	false	(boolean) Left/right keyboard arrows can be used to navigate the slider.
tabToAdvance	false	(boolean) Tab key can be used to navigate the slider forward.
responsiveSlideContainer	true	(boolean) Width of slide container becomes responsive to the width/height of its parent element. Slide container dynamically collapse to the width/height of the parent element when wider/taller.
responsiveSlides	true	(boolean) Width of slides becomes responsive to the width/height of its parent element. Slides dynamically collapse to the width/height of the parent element of the slider when wider/taller.
navSlideSelector	null	(string) A jQuery selection (ex. \$('.navButtons .button') ), each element returned by the selector will activate navigation to each slide respectively. ie. element 0 when clicked (or touched) will animate to the first slide and so on.
navPrevSelector	null	(string) A jQuery selection (ex. \$('#previousSlide') ), the element returned by the selector will navigate to the previous slide when clicked.
navNextSelector	null	(string) A jQuery selection (ex. \$('#nextSlide') ), the element returned by the selector will navigate to the next slide when clicked.
autoSlide	false	(boolean) Enables automatic cycling through slides.
autoSlideTimer	5000	(integer) the time (in milliseconds) that a slide will wait before automatically navigating to the next slide.
autoSlideTransTimer	750	(integer) the time (in milliseconds) required for all automatic animations to move between slides. See <i>navSlideSelector</i> , <i>navPrevSelector</i> , <i>navNextSelector</i> for details on activating elements for automatic sliding.
autoSlideToggleSelector	null	(string) A jQuery selection (ex. \$('#autoScrollToggle') ), the element returned by the selector will disable/enable automatic scrolling when clicked. Note: Only works when <i>autoSlide</i> is set to 'true'.
infiniteSlider	false	(boolean) Makes the slider loop in both directions infinitely with no end. When set to true, the option <i>scrollbar</i> is automatically disabled.
stageCSS	{ position: 'relative', top: '0', left: '0', overflow: 'hidden', zIndex: 1 }	(object) The customizable CSS of the stage object.
sliderCSS	{ overflow: 'hidden' }	(object) The customizable CSS of the slider object.
unselectableSelector	null	(string) A jQuery selection (ex. \$('.unselectable') ), each element returned by the selector will become removed from touch/click move events.

### Advanced Settings & Options

Advanced callbacks allow further customization through end user created functions/hooks. For additional information regarding parameters supplied to these callbacks, see parameter object details directly below the following table.

Key	Value	Description
onSliderLoaded	null	(function) Executed when slider has finished loading initially.
onSliderUpdate	null	(function) Executed when public method 'update' has been completed.
onSliderResize	null	(function) Executed when the window has been resized or a device has been rotated.
onSlideStart	null	(function) Executed when the slider has begun to move.

onSlideChange	null	(function) Executed when the slider has entered the range of a new slide.
onSlideComplete	null	(function) Executed when the slider has come to a stop on a new slide.

### Callback Parameter Object Details

All callback functions listed above return the same object, for our example, we will call this object 'args'.

```
args = {
  settings: {
    /* all basic/advanced settings & options from above */
  },
  data: {
    obj,
    settings,
    scrollerNode,
    numberOfSlides,
    sliderNumber,
    childrenOffsets,
    sliderMax,
    scrollbarClass,
    scrollbarWidth,
    scrollbarStageWidth,
    stageWidth,
    scrollMargin,
    scrollBorder,
    infiniteSliderOffset,
    infiniteSliderWidth
  },
  sliderObject,
  sliderContainerObject,
  targetSlideObject,
  targetSlideNumber,
  currentSlideObject,
  currentSlideNumber,
  currentSliderOffset
}
```

Accessing callback parameter data following the above object structure.

```
$('.iosSlider').iosSlider({
  onSlideChange: someCallback
});

function someCallback(args) {

  /* accessing user defined settings from initialization */
  var autoSlideToggleSelector = args.settings.autoSlideToggleSelector;

  /* accessing data from the slider object */
  var sliderMax = args.data.sliderMax;

  /* additional calculated variables supplied to the 'args' object */
  var currentSlideNumber = args.currentSlideNumber;

}
```

### jQuery .data() Object Details

Additional public information is stored using the [jQuery.data\(\)](#) object. For usage and access instructions, please consult the [jQuery.data\(\) object reference](#).

```
/* General variables. These variables are set during initialization,
 * window resize, orientation change, and via the 'update' public method
 */
$('.iosSlider').data('iosslider', {
  obj,
  settings,
  scrollerNode,
  numberOfSlides,
  sliderNumber,
  childrenOffsets,
  sliderMax,
  scrollbarClass,
  scrollbarWidth,
  scrollbarStageWidth,
  stageWidth,
  scrollMargin,
  scrollBorder,
  infiniteSliderOffset,
  infiniteSliderWidth
});

/* Dynamic variables. These variables are updated with every user interaction. */
$('.iosSlider').data('args', {
  sliderObject,
  sliderContainerObject,
  prevSlideNumber,
  prevSliderOffset,
  targetSlideObject,
  targetSlideNumber,
  currentSlideObject,
  currentSlideNumber,
  currentSliderOffset
});
```

## Public Methods

Method	Description
<code>\$(div).iosSlider('destroy');</code>	Destroys the selected slider. <i>Optional parameter: 'clearStyle' (boolean, default: true) when iosSlider is destroyed, all inline style applied to the slider will be removed.</i>
<code>\$(div).iosSlider('goToSlide', slideNum);</code>	Moves to the selected slide. <i>Required parameter: 'slideNumber' (integer, default: null)</i>
<code>\$(div).iosSlider('update');</code>	Updates/reinitializes internal variables/CSS attributes based on changes to the HTML/CSS/JS structure of the slider.
<code>\$(div).iosSlider('addSlide', slideHTML, slidePosition);</code>	Adds a slide defined by 'slideHTML' and placed at position 'slidePosition'. <i>Required parameters: 'slideHTML' (string, default: null), 'slidePosition' (integer, default: null)</i>
<code>\$(div).iosSlider('removeSlide', slideNum);</code>	Removes a slide from the slider. <i>Required parameter: 'slideNumber' (integer, default: null)</i>
<code>\$(div).iosSlider('lock');</code>	Locks the slider. Temporarily disabling touch/drag events within the slider without unbinding them.
<code>\$(div).iosSlider('unlock');</code>	Unlocks the slider. Enables touch/drag events previously disabled by the lock method.

## Licensing

iosSlider is licensed under the [Creative Commons – Attribution-NonCommercial 3.0](#) License.

### Personal or non-profit

You may use iosSlider **free for personal or non-profit** purposes, without restriction. Attribution is not required but always appreciated.

### Commercial

For commercial projects, you must [purchase a license](#). You may download and play with the script before deciding to fully implement it in your project. Making sure you are satisfied, and knowing iosSlider is the right script for your project is paramount.

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## Support

**Comments/questions regarding your implementation?** Feel free to drop me a line at [contact@iosscripts.com](mailto:contact@iosscripts.com) and I will get back to you as quickly as I can.

If you run into problems implementing iosSlider and need to report a bug or request a new feature, please create an issue on [GitHub issues](#).

Additional demos, readme, and changelog can be found in the [iosSlider repository on GitHub](#)

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