

YUI Library: Slider with Dual Thumbs

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v2.9

Simple Use Case

Markup:

```
<div id="sliderbg">
  <div id="minthumb"></div>
  <div id="maxthumb"></div>
</div>
```

Script:

```
var slider =
YAHOO.widget.Slider.getHorizDualSlider(
  "sliderbg", "minthumb", "maxthumb", 200);
```

Creates two thumbs (**minthumb** and **maxthumb**) that can move within a horizontal 200 pixel range on a slide background (**slidebg**).

Constructor: YAHOO.widget.DualSlider

```
YAHOO.widget.Slider.getHorizDualSlider(str bgid,
  str minthumbid, str maxthumbid, int range[, int
  tick[,array initVals]]);
```

Arguments for Horizontal and Vertical DualSliders:

- (1) **Background element ID:** HTML ID for the slider's background.
- (2) **Min Thumb element ID:** HTML ID for the thumb element representing the lower value.
- (3) **Max Thumb element ID:** HTML ID for the thumb element representing the upper value.
- (4) **Range:** The maximum pixel offset for the Max Thumb.
- (5) **Tick interval:** Number of pixels between each tick mark.
- (7) **Initial Values:** Array containing the desired Min Thumb and Max Thumb pixel offsets to assign during instantiation.

Solutions

Create a vertical DualSlider with a 300 pixel range, ticks at 10 px intervals, and initial values of 160 and 220:

```
var slider =
YAHOO.widget.Slider.getVertDualSlider("sliderbg"
, "minthumb", "maxthumb", 300, 10, [160,220] );
```

Assuming an instance of a DualSlider in variable **mySlider**, write a **handler** for its **change** event:

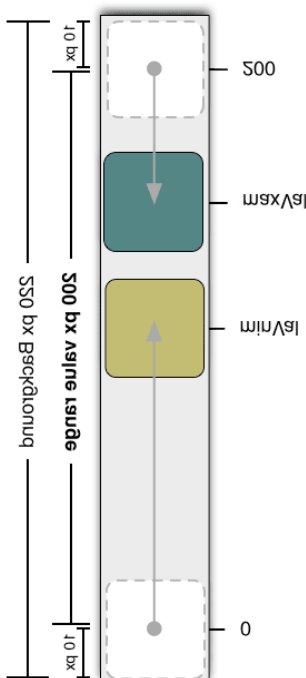
```
mySlider.subscribe("change", function() {
  alert("MIN: "+this.minVal+" MAX: "+this.maxVal);
});
```

Interesting Moments in DualSlider see docs for full list

Event	Fires...	Arguments
slideStart	...at the beginning of a user-initiated change in either thumb position.	Slider instance <small>Slider instance housing the active thumb</small>
slideEnd	... at the end of a user-initiated change in either thumb position.	Slider instance <small>Slider instance housing the active thumb</small>
change	...each time either of the thumbs' positions change during a user-initiated move.	DualSlider instance

DualSlider events are Custom Events; subscribe to them by name using the following syntax: **mySlider.subscribe("change", fn);**.

DualSlider Design Considerations



DualSlider is an implementation of a "finite range control." The *range* defined by the DualSlider thumbs is expressed in pixels.

The maximum range of a slider is the pixel-width of the DualSlider's background minus half the width of the Min Thumb minus half the width of the Max Thumb.

Values for each thumb are calculated according to their center point. To quantify the space between the thumbs, use this formula:

$$\text{innerDiff} = \text{maxVal} - \text{minVal} - (\text{maxThumbWidth}/2) - (\text{minThumbWidth}/2)$$

YAHOO.widget.Slider: Factory Methods

getHorizDualSlider()
getVertDualSlider()

Each method returns a DualSlider object. See Constructor section for args list.

YAHOO.widget.DualSlider: Properties

minVal (n) (read only)
maxVal (n) (read only)
isHoriz (b) (read only)
minSlider (Slider) (read only)
maxSlider (Slider) (read only)

minRange (n) (read / write)
minimum number of pixels the inner edges of the thumbs can be apart

YAHOO.widget.DualSlider: Methods

setMinValue(int)
setMaxValue(int)
setValues(int *newMinOffset*, int *newMaxOffset*, b *skipAnimation*)

YAHOO.widget.DualSlider: Dependencies

DualSlider requires the YAHOO object, Dom, Event, Drag & Drop, and (optionally) Animation.

CSS Notes:

- DualSlider background should be **position: relative;**
- Slider thumbs should be **position: absolute;**
- Slider thumb image should **not** be a background image