

# **Script.aculo.us**

The Wiki Docs

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## 1 Introduction

### script.aculo.us

Visual Effects Java Script library

#### About

This documentation is based on the text that is available in the wiki as of **12th June 2007**. Like in the online version, there are some informations missing, like details about the new sound.js. Anyways, it's a good and near to complete offline version for everyone who needs to lookup specific details regarding Script.aculo.us.

The file you are looking at was compiled and marked up by me, Kjell Bublitz. I completed some missing infos from top of the head here and there and fixed some typos aswell. I will take no further credit for the contents of this file. Like with the *prototype.chm* (which is available for download too), i am just the maintainer.

If you like this doc version, you should check out my Prototype.chm too.

#### Version

1.1 (added slider and updated some formatting)

#### Contact maintainer

You can find me at irc.freenode.net in #cakephp and #prototype as "m3nt0r". Or just go to my website i linked above and leave a comment or something.

## 2 Usage

### Download

Go to the **script.aculo.us** downloads page to grab yourself the latest version in a convenient package. Follow the instructions there, then return here.

### Unpack and Install

Put `prototype.js`, `scriptaculous.js`, `builder.js`, `effects.js`, `dragdrop.js`, `slider.js` and `controls.js` in a directory of your website, e.g. `/javascripts`.

### Link to script.aculo.us in your HTML

Link to the scripts in the head of your document:

```
<script src="javascripts/prototype.js" type="text/javascript"></script>
<script src="javascripts/scriptaculous.js" type="text/javascript"></script>
```

By default, scriptaculous.js loads all of the other javascript files necessary for effects, drag-and-drop, sliders, and all of the other script.aculo.us features. If you don't need all of the features, you can limit the additional scripts that get loaded by specifying them in a comma-separated list, e.g.:

The scripts that can be specified are:

- builder
- effects
- dragdrop
- controls
- slider
- sound

```
<script src="scriptaculous.js?load=effects,dragdrop" type="text/javascript"></script>
```

**Note:** Some of the scripts require that others be loaded aswell in order to function properly.

## Use in your HTML

To call upon the functions, use HTML script tags. The best way is to define them like this:

```
<script type="text/javascript" language="javascript">
  // 
    Effect.Appear('element id');
  // ]]&gt;
&lt;/script&gt;</pre></div><div data-bbox="163 353 875 369" data-label="Text"><p>This way, you won't have to worry about using characters like &lt; and &gt; in your Java Script code.</p></div><div data-bbox="163 380 518 394" data-label="Text"><p>You can also use effects inside event handlers:</p></div><div data-bbox="179 406 523 438" data-label="Text"><pre>&lt;div onclick="new Effect.SwitchOff(this)"&gt;
  Click here if you've seen enough.
&lt;/div&gt;</pre></div><div data-bbox="163 449 896 478" data-label="Text"><p>If you want to get tricky with it, you can pass extra options to the effect like 'duration', 'fps' (frames per second), and 'delay'.</p></div><div data-bbox="179 489 634 520" data-label="Text"><pre>&lt;div onclick="new Effect.BlindUp(this, {duration: 16})"&gt;
  Click here if you want this to go sloooooow.
&lt;/div&gt;</pre></div><div data-bbox="163 533 288 553" data-label="Section-Header"><h2>Next steps</h2></div><div data-bbox="163 563 689 580" data-label="Text"><p>Have a look at the Demos to catch a glimpse of what you can achieve.</p></div><div data-bbox="94 610 258 631" data-label="Section-Header"><h2>3 Effects</h2></div><div data-bbox="91 643 307 661" data-label="Section-Header"><h3>3.1 Core Effects</h3></div><div data-bbox="163 669 885 698" data-label="Text"><p>The six core effects Effect.Opacity, Effect.Scale, Effect.Morph, Effect.Move, Effect.Highlight and Effect.Parallel are the foundation of the script.aculo.us Visual Effects Java Script library.</p></div><div data-bbox="163 709 245 729" data-label="Section-Header"><h2>Syntax</h2></div><div data-bbox="163 740 440 756" data-label="Text"><p>The basic syntax to start an effect is:</p></div><div data-bbox="184 767 680 780" data-label="Text"><pre>new Effect.<b>EffectName</b>( element, required-params, [options] );</pre></div><div data-bbox="184 790 901 819" data-label="Text"><p><b>element:</b> Can be either a string containing the id of the element, or a Java Script DOM element object.</p></div><div data-bbox="184 817 899 834" data-label="Text"><p><b>required-params:</b> Depends on the effect being called and may not be needed. Most effects do</p></div>
```

not have required parameters. See the documentation for the core effects to learn if the effect has required parameters or if this parameter should be omitted.

**options:** Used to give any additional customization parameters to the effect.

There are general and effect-specific options.

## Example

```
new Effect.Opacity('my element',
  { duration: 2.0,
    transition: Effect.Transitions.linear,
    from: 1.0, to: 0.5 });
```

## Common parameters

All core effects support following settings in their options parameter:

Option	Since	Description
duration	V1.0	Duration of the effect in seconds, given as a float. Defaults to 1.0.
fps	V1.0	Target this many frames per second. Default to 25. Can't be higher than 100.
transition	V1.0	Sets a function that modifies the current point of the animation, which is between 0 and 1. Following transitions are supplied: Effect.Transitions.sinoidal (default), Effect.Transitions.linear, Effect.Transitions.reverse, Effect.Transitions.wobble and Effect.Transitions.flicker.
from	V1.0	Sets the starting point of the transition, a float between 0.0 and 1.0. Defaults to 0.0.
to	V1.0	Sets the end point of the transition, a float between 0.0 and 1.0. Defaults to 1.0.
sync	V1.0	Sets whether the effect should render new frames automatically (which it does by default). If true, you can render frames manually by calling the render() instance method of an effect. This is used by Effect.Parallel().
queue	V1.5	Sets queuing options. When used with a string, can be 'front' or 'end' to queue the effect in the global effects queue at the beginning or end, or a queue parameter object that can have {position:'front/end', scope:'scope', limit:1}. For more info on this, see Effect Queues
delay	V1.5	Sets the number of seconds to wait before the effect actually starts. Defaults to 0.0.
direction	unknown	Sets the direction of the transition. Values can be either 'top-left', 'top-right', 'bottom-left', 'bottom-right' or 'center' (Default). Applicable only on Grow and Shrink effects.

Additionally, the options parameter also can be supplied with callback methods, so you can have Java Script executed at various events while the effect is running. The callbacks are supplied with a reference to the effect object as a parameter. Here is an example of getting the element id passed by reference into a callback function:

```
function callback(obj){
  for(var i in obj.effects){
    alert(obj.effects[i]['element'].id);
  }
}
```

Callback	Since	Description
beforeStart	V1.0	Called before the main effects rendering loop is started.
beforeUpdate	V1.0	Called on each iteration of the effects rendering loop, before the redraw takes places.
afterUpdate	V1.0	Called on each iteration of the effects rendering loop, after the redraw takes places.
afterFinish	V1.0	Called after the last redraw of the effect was made.

Within the effect object, there are several useful variables you can access:

Variable	Since	Description
effect.element	V1.0	The element the effect is applied to.
effect.options	V1.0	Holds the options you gave to the effect.
effect.frame	V1.0	The number of the last frame rendered.
effect.startOn	V1.0	The times (in ms) when the effect was started, and when it will be finished.
effect.finishOn	V1.0	The times (in ms) when the effect was started, and when it will be finished.
effect.effects[]	V1.0	On an Effect.Parallel effect, there's an effects[] array containing the individual effects the parallel effect is composed of.

## Example usage of Callback functions

```
function myCallBackOnFinish(obj){
  alert("the Element's id the effect was applied to is : " + obj.element.id);
}
function myCallBackOnStart(obj){
  alert("the Element object the effect will be applied to is : " + obj.element);
}
new Effect.Highlight(myObject,
  { startcolor:'#ffffff',
    endcolor:'#ffffcc',
    duration: 0.5,
    afterFinish: myCallBackOnFinish,
    BeforeStart: myCallBackOnStart
  });
```

### 3.1.1 Effect.Morph

This effect changes the CSS properties of an element.

#### Availability

script.aculo.us V1.7 and later.

#### Syntax

```
$('#morph_example').morph('background:#080;color:#fff');
```

#### Examples

```
new Effect.Morph('error message',{
  style:'background:#f00; color:#fff; border: 20px solid #f88; font-size:2em',
```

```
duration:0.8
});
```

Style as a hash (keys should be javascript names, rather than CSS ones i.e. 'backgroundColor' rather than 'background-color'):

```
new Effect.Morph('example',{
  style:{
    width:'200px'
  }
});
```

You can also use `$('#element_id').morph({width:'200px'})`, which is a bit shorter.

## Effect-specific paramters

Option	Description
style	the target style of your element, writing with the standard CSS syntax, or as a hash

## Details

Effect.Morph takes original styles given by CSS style rules or inline style attributes into consideration when calculating the transforms. It works with all length and color based CSS properties, including margins, paddings, borders, opacity and text/background colors.

## Notes

The original style for an element **must** be in its style attribute, not in an external stylesheet, for Scriptactulous to morph it.

### 3.1.2 Effect.Move

This effect moves an element. Effect.MoveBy is older name.

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
new Effect.Move('id of element', y, x, [options]);
new Effect.Move(element, y, x, [options]);
```

## Examples

This will move object to corner of the window (x=0; y=0):

```
new Effect.Move (obj,{ x: 0, y: 0, mode: 'absolute'});
```

This will move object 30px up and 20px to the right (the default mode is 'relative'):

```
new Effect.Move (obj,{ x: 20, y: -30, mode: 'relative'});
```

## Options

For more informations about options see Core Effects (part about Common parameters)

## Notes

Make sure all the elements you are moving is either absolute or relative. Leaving out the 'position'-tag will break IE compatibility (it will work in Firefox though)

### 3.1.3 **Effect.Opacity**

This effect changes an element's opacity (transparency).

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
new Effect.Opacity('id of element', [options]);
new Effect.Opacity(element, [options]);
```

## Examples

```
new Effect.Opacity('id_of_element', {duration:0.5, from:1.0, to:0.7});
```

Will fade the element from 100% to 70% over the space of 1/2 second.

## Notes

Microsoft Internet Explorer can only set opacity on elements that have a 'layout' (see Giving Elements Layout).

### 3.1.4 **Effect.Parallel**

This is a special effect to allow to combine more than one core effect into a parallel effect. It's the only effect that doesn't take an element as first parameter, but an array of subeffects.

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
new Effect.Parallel([array of subeffects], [options]);
```

## Example

```
new Effect.Parallel(
  [ new Effect.MoveBy(element, 100, 0, { sync: true }),
    new Effect.Opacity(element, { sync: true, to: 0.0, from: 1.0 } ) ],
  { duration: 0.5,
    afterFinish: function(effect) { Element.hide(effect.effects[0].this.parentNode); }
  }
);
```

### 3.1.5 **Effect.Scale**

This effect changes an elements width and height dimensions and the base for em units. This allows for smooth, automatic relative scaling of elements contained within the scaled element.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
new Effect.Scale('id of element', percent, [options]);  
new Effect.Scale(element, percent, [options]);
```

#### Effect-specific parameters

Option	Description
scaleX	Sets whether the element should be scaled horizontally, defaults to true.
scaleY	Sets whether the element should be scaled vertically, defaults to true.
scaleContent	Sets whether content scaling should be enabled, defaults to true.
scaleFromCenter	If true, scale the element in a way that the center of the element stays on the same position on the screen, defaults to false.
scaleMode	Either 'box' (default, scales the visible area of the element) or 'contents' (scales the complete element, that is parts normally only visible byscrolling are taken into account). You can also precisely control the size the element will become by assigning the originalHeight and originalWidth variables to scaleMode as follows: <pre>scaleMode: { originalHeight: 400, originalWidth: 200 }</pre>
scaleFrom	Sets the starting percentage for scaling, defaults to 100.0.

### 3.1.6 **Effect.Highlight**

This effect Flashes a color as the background of an element. It is mostly used to draw attention to a part of the page that has been updated via javascript or AJAX, when the update would not otherwise be obvious.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
new Effect.Highlight('id of element', [options]);  
new Effect.Highlight(element, [options]);
```

## Effect-specific parameters

Option	Description
duration	Duration of the effect in seconds, given as a float. Defaults to 1.0.
startcolor	Sets the color of first frame of the highlight the highlight. Defaults to "#ffff99" (light yellow)
endcolor	Sets the color of the last frame of the highlight. This is best set to the background color of the highlighted element. Defaults to "#ffffff" (white)
restorecolor	Sets the background color of the element after the highlight has finished. Defaults to the current background-color of the highlighted element (see Note)

## Examples

```
new Effect.Highlight('my_field', {startcolor:'#ff99ff', endcolor:'#999999'})
```

## Notes

If the restorecolor option is not given, Effect.Highlight tries to find out the current background color of the element, which will only work reliably across browsers if the color is given with a CSS rgb triplet, like rgb(0, 255, 0).

Be aware of the syntax: this effect strictly requires a "new" in front, otherwise you will get a javascript error.

## 3.2 Combination Effects

All the combination effects are based on the six Core Effects, and are thought of as examples to allow you to write your own effects.

- Effect.Appear, Effect.Fade
- Effect.Puff
- Effect.DropOut
- Effect.Shake
- Effect.SwitchOff
- Effect.BlindDown, Effect.BlindUp
- Effect.SlideDown, Effect.SlideUp
- Effect.Pulsate
- Effect.Squish
- Effect.Fold
- Effect.Grow
- Effect.Shrink

Additionally, there's the Effect.toggle utility method for elements you want to show temporarily with a Appear/Fade, Slide or Blind animation.

Effect.toggle uses any of the following pairs:

Toggle Parameter	Description
appear	Effect.Appear, Effect.Fade
slide	Effect.SlideDown, Effect.SlideUp

blind                      Effect.BlindDown, Effect.BlindUp

Have a look at the Combination Effects Demo online.

### 3.2.1 **Effect.Appear**

Make an element appear. If the element was previously set to `display:none`; inside the `style` attribute of the element, the effect will automatically show the element. This means that it must be placed under the `style` attribute of an object, and not in the CSS in the head of the document or a linked file.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Appear('id_of_element');
```

#### Options

- duration: 1.0 (in seconds)
- from: 0.0 - 1.0 (percent of opacity to start)
- to: 0.0 - 1.0 (percent of opacity to end)

#### Example

```
Effect.Appear('id_of_element', { duration: 3.0 });
```

#### Notes

Can take an options parameter, to control the underlying Effect.Opacity effect.

Works safely with most HTML elements, except table rows, table bodies and table heads.

There is a problem with floating Elements in Safari.

If you need the div to be floated you can do it like this:

```
<a href="#" onclick="new Effect.Appear('apear-div');">Click to apear</a>
<div style="float: right">
<div id="apear-div" style="display: none;">
    Only this div has to apear!
</div>
</div>
```

Microsoft Internet Explorer can only set opacity on elements that have a 'layout'. To let an element have a layout, you must set some CSS positional properties, like 'width' or 'height'. See Giving Elements Layout. (Note: fixed in 1.5\_rc1.)

On Microsoft Internet Explorer, this effect may display a bold/ghosting artifact on elements that don't have a defined background. It's unclear if this is a feature or a bug. See bug #4806.

### 3.2.2 `Effect.BlindDown`

This effect simulates a window blind, where the contents of the affected elements stay in place.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.BlindDown('id_of_element');
```

#### Options

Items in **bold** are default values.

- `scaleX`: **true**, `false`
- `scaleY`: **true**, `false`
- `scaleContent`: **true**, `false`
- `scaleFromCenter`: **true**, `false`
- `scaleMode`: **'box'**, `'contents'`
- `scaleFrom`: **100.0** (0%-100%)
- `scaleTo`: **0** (0%-100%)
- `duration`: **1** (0.0-1)

#### Examples

**Make the transition longer by adding options.**

```
Effect.BlindDown('id_of_element', {duration:3});
```

#### Notes

Works safely with most Block Elements, except table rows, table bodies and table heads.

Also, if you would like the block hidden when someone first lands on your page, you must use the "display: none" property within the style attribute of the div/block tag, and not in the CSS class for the div. For example:

```
<div style="display: none" id = "id of element">  
Blind content  
</div>
```

and not:

```
#id of element{  
  display: none;  
  etc...  
}
```

This is the opposite of `Effect.BlindUp`

### 3.2.3 **Effect.BlindUp**

This effect simulates a window blind, where the contents of the affected elements stay in place.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.BlindUp('id_of_element');
```

#### Options

Items in **bold** are default values.

- scaleX:**true**, **false**
- scaleY:**true**, **false**
- scaleContent:**true**, **false**
- scaleFromCenter:**true**, **false**
- scaleMode:**'box'**, **'contents'**
- scaleFrom:**100.0** (0%-100%)
- scaleTo:**0** (0%-100%)
- duration:**1** (0.0-1)

#### Examples

**Make the transition longer by adding options.**

```
Effect.BlindUp('id_of_element', {duration:3});
```

#### Notes

Works safely with most Block Elements, except table rows, table bodies and table heads.

This is the opposite of Effect.BlindDown

### 3.2.4 **Effect.DropOut**

Makes the element drop and fade out at the same time.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.DropOut('id_of_element');
```

#### Notes

Works safely with most Block Elements, except tables.

### 3.2.5 **Effect.Fade**

Makes an element fade away and takes it out of the document flow at the end of the effect by setting the CSS display property to none. Opposite of Effect.Appear

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Fade('id_of_element');
```

#### Options

- from: (defaults to current opacity or 1.0)
- to: (defaults to 0.0)

#### Examples

```
Effect.Fade('id_of_element', { transition: Effect.Transitions.wobble })
```

#### Notes

Can take an options parameter, to control the underlying Effect.Opacity effect.

Works safely with most HTML elements, except table rows, table bodies and table heads.

Microsoft Internet Explorer can only set opacity on elements that have a 'layout'. To let an element have a layout, you must set some CSS positional properties, like 'width' or 'height'. See Giving Elements Layout. (Note: fixed in 1.5\_rc1.)

On Microsoft Internet Explorer, this effect may display a bold/ghosting artifact on elements that don't have a defined background. It's unclear if this is a feature or a bug. See bug #4806.

### 3.2.6 **Effect.Fold**

Reduce the element to its top then to left to make it disappear.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Fold('id_of_element');
```

#### Notes

Works safely with most Block Elements, except tables.

### 3.2.7 **Effect.Grow**

This effect grows a element to a specified size.

#### **Availability**

script.aculo.us V1.0 and later.

#### **Syntax**

```
Effect.Grow('id_of_element');
```

## Notes

Works safely with most Block Elements, except tables.

## Options

Effect.Grow has an optional parameter: **direction**.  
This parameter can accept the following values:

- top-left
- top-right
- bottom-left
- bottom-right
- center

## Examples

```
new Effect.Grow('content', {direction: 'top-left'});  
new Effect.Grow('content', {direction: 'center', duration: 2.0});
```

You can define different durations for several DIV elements, and place them in a row in order to make them appear one after another.

### 3.2.8 **Effect.Puff**

Gives the illusion of the element puffing away (like a in a cloud of smoke).

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
Effect.Puff('id_of_element');
```

## Options

Items in bold are default values.

- duration: **1.0** (in seconds)
- from: **0.0**-1.0 (percent of animation to start)
- to: 0.0-**1.0** (percent of animation to end)

## Examples

```
Effect.Puff('id_of_element', {duration:3});
```

## Notes

Works safely with most Block Elements, except tables.

### 3.2.9 **Effect.Pulsate**

Pulsates the element, loops over five times over fading out and in.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Pulsate('id_of_element');
```

#### Options

- duration: Number of seconds after which to stop the effect.
- from: The minimal opacity during the pulsate, in a value between 0 and 1. For example, use 0.7 for a mild pulsate.
- pulses: The amount of pulses with-in the duration time (default is 5).

#### Notes

Works safely with most HTML elements, except table rows, table bodies and table heads.

Microsoft Internet Explorer can only set opacity on elements that have 'layout'. To let an element have layout, you must set some CSS positional properties, like 'width' or 'height'. See Giving Elements Layout.

### 3.2.10 **Effect.Shake**

Moves the element slightly to the left, then to the right, repeatedly.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Shake('id_of_element');
```

#### Notes

Works safely with most Block Elements, except tables.

### 3.2.11 **Effect.Shrink**

Reduce the element to its top-left corner.

#### Availability

script.aculo.us V1.0 and later.

## Syntax

```
Effect.Shrink('id_of_element');
```

## Notes

Works safely with most Block Elements, except tables.

### 3.2.12 Effect.SlideDown

This effect simulates a window blind, where the contents of the affected elements scroll down accordingly.

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
Effect.SlideDown('id_of_element');
```

## Options

Items in **bold** are default values.

- \* scaleX:**true**, **false**
- \* scaleY:**true**, **false**
- \* scaleContent:**true**, **false**
- \* scaleFromCenter:**true**, **false**
- \* scaleMode:**'box'**, 'contents'
- \* scaleFrom:**100.0** (0%-100%)
- \* scaleTo:**0** (0%-100%)
- \* duration:**1**

## Examples

```
Effect.SlideDown('id_of_element', {duration:3});
```

## Notes

You must include a second DIV element, wrapping the contents of the outer DIV. So, if you call new Effect.SlideDown('x'), your element must look like this:

```
<div id="x"><div>contents</div></div>
```

Because of a bug in Internet Explorer 6 (overflow not correctly hidden), an additional wrapper div is needed if you want to use these effects on absolutely positioned elements (wrapper is the absolutely positioned element, x has position:relative set):

```
<div id="wrapper"><div id="x"><div>contents</div></div></div>
```

Works only on block elements.

In Internet Explorer 6.0 there's a problem where floated block level elements don't animate. If you add a `position: relative` to the element it all works though.

### 3.2.13 `Effect.SlideUp`

This effect simulates a window blind, where the contents of the affected elements scroll up accordingly.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.SlideUp('id_of_element');
```

#### Options

Items in **bold** are default values.

- \* `scaleX`: true, **false**
- \* `scaleY`: **true**, false
- \* `scaleContent`: **true**, false
- \* `scaleFromCenter`: true, **false**
- \* `scaleMode`: '**box**', 'contents'
- \* `scaleFrom`: **100.0** (0%-100%)
- \* `scaleTo`: **0** (0%-100%)
- \* `duration`: **1**

#### Examples

```
Effect.SlideUp('id_of_element', {duration:3});
```

#### Notes

You must include a second DIV element, wrapping the contents of the outer DIV. So, if you call `new Effect.SlideDown('x')`, your element must look like this:

```
<div id="x"><div>contents</div></div>
```

Because of a bug in Internet Explorer 6 (overflow not correctly hidden), an additional wrapper div is needed if you want to use these effects on absolutely positioned elements (wrapper is the absolutely positioned element, x has `position: relative` set):

```
<div id="wrapper"><div id="x"><div>contents</div></div></div>
```

Works only on block elements.

In Internet Explorer 6.0 there's a problem where floated block level elements don't animate. If you add a `position: relative` to the element it all works though.

### 3.2.14 **Effect.Squish**

Reduce the element to its top-left corner.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.Squish('id_of_element');
```

#### Notes

Works safely with most Block Elements, except tables.

### 3.2.15 **Effect.SwitchOff**

Gives the illusion of a TV-style switch off.

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Effect.SwitchOff('id_of_element');
```

#### Notes

Works safely with most Block Elements, except tables.

### 3.2.16 **Effect.toggle**

Effect.toggle allows for easily toggling elements with an animation.

#### Availability

script.aculo.us V1.5.0 and later.

#### Syntax

```
Effect.toggle(element, ['appear' | 'slide' | 'blind'], [options] );
```

#### Options

**element** can be either a string containing the id of the element, or a Java Script DOM element object.

The **options** parameter is used to give any additional customization parameters to the effect. There are general and effect-specific options. See the individual effects for more information.

## Notes

Keep in mind, like individual Effects, you must include a second DIV element, wrapping the contents of the outer DIV. So, if you call `new Effect.Slide Down?('x')`, your element must look like this:

```
<div id="x"><div>contents</div></div>
```

## 4 Controls

### 4.1 Drag and Drop

The Drag-and-drop Java Script library enables easy-to-do dragging and dropping of elements in your web application and to do sortable lists and floats.

#### Draggables & Droppables

Use Draggables (elements that can be dragged) and Droppables (elements that can be dropped on) to add rich user interactivity to your web site or web application.

#### Sortable lists and floats

Use Sortable (container elements whose child elements can be sorted) to make lists (HTML elements LI and OL) and floating images or DIVs inside a container div sortable.

#### 4.1.1 Draggables

The Draggables object is a global helper object.

Property/Method	Description
<code>drags</code>	Array of all Draggables on the page
<code>observers</code>	Array of drag observers. Use <code>Draggables.addObserver()</code> and <code>Draggables.removeObserver()</code> to add/remove observers, respectively
<code>register()</code>	<code>function(draggable)</code> . Called when you create a new Draggable. If this is the first Draggable on the page, starts observing mouse events necessary for dragging.
<code>unregister()</code>	<code>function(draggable)</code> . Called by <code>Draggable.destroy()</code> . Stops observing window mouse events if <code>Draggable.drag</code> is empty.
<code>activate()</code>	Marks a particular Draggable as the <code>activeDraggable</code>
<code>deactivate()</code>	Sets <code>Draggables.activeDraggable</code> to null
<code>updateDrag()</code>	Passes the window <code>mousemove</code> event to the <code>activeDraggable</code> 's <code>updateDrag</code> function.
<code>endDrag()</code>	Caught by the window's <code>mouseup</code> , stops dragging the <code>activeDraggable</code> , if any, via its <code>endDrag</code> function.
<code>keyPress()</code>	Passes the window <code>keypress</code> event to the <code>activeDraggable</code> 's <code>keyPress</code> function.
<code>addObserver()</code>	Adds an observer to <code>Draggables.observers</code>
<code>removeObserver()</code>	Removes an observer from <code>Draggables.observers</code> . Takes the observer's element property as a parameter

notify()                      Calls the observers' onStart(), onEnd(), and onDrag() functions as necessary

## Draggable Observers

A draggable observer, as used in **Draggables.addObserver()**, is an object with an element property defined, and one or more of the following functions defined:

Property/Method	Description
onStart()	Called after dragging begins
onDrag()	Called on each mousemove during a drag
onEnd()	Called when dragging is finished

The parameters passed to these three events are **eventName**, **draggable**, and **event**. The **draggable.element** method gives us the html element being dragged.

### 4.1.1.1 Draggable

To make an element draggable, you create a new instance of class Draggable.

## Syntax

```
new Draggable('id_of_element', [options]);
```

## Options

Option	Since	Default	Description
handle	V1.0	(none)	Sets whether the element should only be draggable by an embedded handle. The value must be an element reference or element id.
handle	V1.5	(none)	As above, except now the value may be a string referencing a CSS class value. The first child/grandchild/etc. element found within the element that has this CSS class value will be used as the handle.
revert	V1.0	false	If set to true, the element returns to its original position when the drags ends.
revert	V1.5	false	Revert can also be an arbitrary function reference, called when the drag ends.
snap	V1.5	false	If set to false no snapping occurs. Otherwise takes the forms – xy or [x,y] or function(x,y){ return [x,y] }.
zindex	V1.5	1000	The css zindex of the draggable item.
constraint	V1.0	(none)	If set to 'horizontal' or 'vertical' the drag will be constrained to take place only horizontally or vertically.
ghosting	??	false	Clones the element and drags the clone, leaving the original in place until the clone is dropped.
starteffect	??	Opacity	Defines the effect to use when the draggable starts being dragged.
reverteffect	??	Move	Defines the effect to use when the draggable reverts back to its starting position.
endeffect	??	Opacity	Defines the effect to use when the draggable stops being dragged.

Additionally, the options parameter can take the following callback function:

Callback	Description
change	Called whenever the Draggable is moved by dragging. The called function gets the Draggable instance as its parameter.

## Examples

```
// from the shopping cart demo
new Draggable('product_1',{revert:true});

// constrain direction and give a handle
new Draggable('my_div',{constraint:'horizontal',handle:'handle'});
```

To disable draggables later on, store it in a variable like:

```
var mydrag = new Draggable('product 1', {revert:true})
  (... do stuff ..)
mydrag.destroy();
```

This way, you can enable and disable dragging at will.

## 4.1.2 Droppables

Droppables are elements which fire a callback function when a Draggable element is released over them.

### Creating droppables

See `Droppables.add`.

### Disabling droppables

See `Droppables.remove`.

#### 4.1.2.1 Droppables.add

To make an element react when a Draggable is dropped onto it, you'll add it to the Droppables of the page with the **Droppables.add** class method.

### Syntax

```
Droppables.add('id_of_element',[options]);
```

Options are:

Option	Since	Default	Description
accept	V1.0	(none)	Set accept to a string or an array of strings describing CSS classes. The Droppable will only accept Draggables that have one or more of these CSS classes.

containment	V1.0	(none)	The droppable will only accept the Draggable if the Draggable is contained in the given elements (or element ids). Can be a single element or an array of elements. This option is used by Sortables to control Drag-and-Drop between Sortables.
hoverclass	V1.0	(none)	If set, the Droppable will have this additional CSS class when an accepted Draggable is hovered over it.
overlap	V1.0	(none)	If set to 'horizontal' or 'vertical' the droppable will only react to a Draggable if its overlapping by more than 50% in the given direction. Used by Sortables.
greedy	V1.1b1	true	If true stops processing hovering (don't look for other Droppables that are under the Draggable)

Additionally, following callbacks can be used in the option parameter:

Callback	Since	Description
onHover	V1.0	Called whenever a Draggable is moved over the Droppable and the Droppable is affected (would accept it). The callback gets three parameters: the Draggable, the Droppable element, and the percentage of overlapping as defined by the overlap option. Used by Sortables.
onDrop	V1.0	Called whenever a Draggable is released over the Droppable and the Droppable accepts it. The callback gets three parameters: the Draggable element, the Droppable element and the Event. You can extract additional information about the drop – like if the Ctrl or Shift keys were pressed – from the Event object.

## Example

```
// from the shopping cart demo
Droppables.add('shopping cart', {
  accept: 'products',
  onDrop: function(element)
    { $('shopping cart text').innerHTML =
      'Dropped the ' + element.alt + ' on me.'; });
```

### 4.1.2.2 Droppables.remove

Will remove any droppable capabilities from 'element'.

## Syntax

```
Droppables.remove(element)
```

### 4.1.3 Sortables

A Sortable consists of item elements in a container element. When you create a new Sortable, it takes care of the creation of the corresponding Draggables and Droppables.

## Availability

script.aculo.us V1.0 and later.

## Creating sortables

See `Sortable.create`.

## Disabling sortables

See `Sortable.destroy`.

## Serializing

The `Sortable` object also provides a function to serialize the `Sortable` in a format suitable for HTTP GET or POST requests. This can be used to submit the order of the `Sortable` via an Ajax call.

See `Sortable.serialize`

### 4.1.3.1 `Sortable.create`

Use `Sortable.create` to initialize a sortable element.

## Availability

script.aculo.us V1.0 and later.

## Syntax

```
Sortable.create('id_of_container', [options]);
```

## Options

Option	Since	Default	Description
<code>tag</code>	V1.0	<code>li</code>	Sets the kind of tag (of the child elements of the container) that will be made sortable. For UL and OL containers, this is 'LI', you have to provide the tag kind for other sorts of child tags.
<code>only</code>	V1.0	<code>(none)</code>	Further restricts the selection of child elements to only encompass elements with the given CSS class (or, if you provide an array of strings, on any of the classes).
<code>overlap</code>	V1.0	<code>vertical</code>	vertical Either 'vertical' or 'horizontal'. For floating sortables or horizontal lists, choose 'horizontal'. Vertical lists should use 'vertical'.
<code>constraint</code>	V1.0	<code>vertical</code>	Restricts the movement of Draggables, see the constraint option of Draggables.
<code>containment</code>	V1.0	<code>(only within container)</code>	Enables dragging and dropping between Sortables. Takes an array of elements or element-ids (of the containers).
<code>format</code>	??	<code>/^[^_\-](?:[A-Za-z0-9\-\_])*(.*)\$/</code>	The RegEx to get the correct values from the IDs of all sortable child elements. This can be important for the output of <code>Sortable.serialize</code>
<code>handle</code>	V1.0	<code>(none)</code>	Makes the created Draggables use handles, see the handle option on Draggables.

hoverclass	V1.1	(none)	Gives the created Droppables a hoverclass (see there).
	b1		
ghosting	V1.5	false	If set to true, dragged elements of the Sortable will be cloned and appear as “ghost”, i.e. a representation of their original element, instead of directly dragging the original element. See below for more details.
dropOnEmpty	V1.5	false	If set to true, the Sortable container will be made into a Droppable, that can receive a Draggable (as according to the containment rules) as a child element when there are no more elements inside.
scroll	V1.5.	(none)	When the sortable is contained in an element with style overflow:scroll, this value can be set to the ID of that container (or the container’s DOM object). The scroll position of the container will now move along when the sortable is dragged out of the viewable area. The container must have overflow:scroll set to include scroll bars. Does not yet work for scrolling the entire document. To get this to work correctly, include this line in your code before creating the sortable: Position.includeScrollOffsets = true;
	2		
scrollSensitivity	??	20	Will start scrolling when element is x pixels from the bottom, where x is the scrollSensitivity.
scrollSpeed	??	15	Will scroll the element in increments of scrollSpeed pixels.
tree	V1.6.	false	If true, sets sortable functionality to elements listed in treeTag
	1		
treeTag	V1.6.	ul	The element type tree nodes are contained in.
	1		

You can provide the following callbacks in the options parameter:

Callback	Since	Description
onChange	V1.0	Called whenever the sort order changes while dragging. When dragging from one Sortable to another, the callback is called once on each Sortable. Gets the affected element as its parameter.
onUpdate	V1.0	Called when the drag ends and the Sortable’s order is changed in any way. When dragging from one Sortable to another, the callback is called once on each Sortable. Gets the container as its parameter. Note that the id attributes of the elements contained in the Sortable must be named as described in Sortable.serialize

## Notes

**Important:** You can use Sortable.create on any container element that contains Block Elements, with the exception of TABLE, THEAD, TBODY and TR. This is a technical restriction with current browsers.

A sortable nested somewhere inside a table won’t work well under IE unless the table has a “position:relative” style. If you use the css display: table property, sortable lists will work a little, but doesn’t allow true drag and drop of the elements.

Got it working using tbody as container and TR as the sortables (IE6 (pc) and Firefox (mac/pc)).

A call to Sortable.create implicitly calls on Sortable.destroy if the referenced element was already a Sortable.

#### 4.1.3.2 Sortable.destroy

Use `Sortable.destroy` to completely remove all event handlers and references to a `Sortable` created by `Sortable.create`. It does not remove or alter the referenced element in any other way.

#### Availability

script.aculo.us V1.1b1 and later.

#### Syntax

```
Sortable.destroy( element );
```

#### Notes

A call to `Sortable.create` implicitly calls on `Sortable.destroy` if the referenced element was already a `Sortable`.

#### 4.1.3.3 Sortable.serialize

The `Sortable` object also provides a function to serialize the `Sortable` in a format suitable for HTTP GET or POST requests. This can be used to submit the order of the `Sortable` via an Ajax call:

#### Availability

script.aculo.us V1.0 and later.

#### Syntax

```
Sortable.serialize('id_of_container', [options]);
```

#### Options

Option	Since	Default	Description
tag	V1.0	tag originally used on <code>Sortable.create</code>	Sets the kind of tag (of the child elements of the container) that will be serialized.
name	V1.0	id of container	Sets the name of the key that will be used to create the key/value pairs for serializing in HTTP GET/POST format (that is, <code>key[]=value&amp;key[]=value ...</code> )

#### Example

```
var userTopTen = Sortable.serialize('top10');  
// userTopTen now contains key[]=value pairs separated by &  
new Ajax.Request('/users/mytop10/saveorder', {parameters: userTopTen});
```

## Notes

For this to work, the elements contained in your Sortable must have id attributes in the following form:

```
<li id="image_1">Something</li>
```

You can tweak this by modifying the format parameter in the Sortable.create call

## 4.2 Autocompletion

The Autocompleter controls allow for Google-Suggest style local and server-powered autocompleting text input fields.

### AJAX Autocompletion

See Ajax.Autocompleter

### Local Autocompletion

See Autocompleter.Local

## Classes

- Autocompleter.Base
- Ajax.Autocompleter
- Autocompleter.Local

### 4.2.1 Autocompleter.Local

The local array autocompleter.

Used when you'd prefer to inject an array of autocompletion options into the page, rather than sending out Ajax queries.

## Syntax

```
new Autocompleter.Local(inputElement, choicesElement, dataArray, [options])
```

The constructor takes four parameters. The first two are, as usual, the id of the monitored textbox, and id of the autocompletion menu. The third is an array of strings that you want to autocomplete from, and the fourth is the options block.

### Extra local autocompletion options:

- **choices**: How many autocompletion choices to offer
- **partialSearch**: If false, the autocompleter will match entered text only at the beginning of strings in the autocomplete array. Defaults to true, which will match text at the beginning of

any word in the strings in the autocomplete array. If you want to search anywhere in the string, additionally set the option `fullSearch` to `true` (default: `off`).

- **fullSearch**: Search anywhere in autocomplete array strings.
- **partialChars**: How many characters to enter before triggering a partial match (unlike `minChars`, which defines how many characters are required to do any match at all). Defaults to 2.
- **ignoreCase**: Whether to ignore case when autocompleting. Defaults to `true`.

It's possible to pass in a custom function as the 'selector' option, if you prefer to write your own autocompletion logic. In that case, the other options above will not apply unless you support them.

## Example

```
<p><label for="bands from the 70s">Your favorite rock band from the 70's:</label><br />
<input id="bands from the 70s" autocomplete="off" size="40" type="text" value="" /></p>

<div class="page name auto complete" id="band list" style="display:none"></div>

<script type="text/javascript">
new Autocompleter.Local('bands from the 70s', 'band list', ['ABBA', 'AC/DC', 'Aerosmith', 'America',
  'Bay City Rollers', 'Black Sabbath', 'Boston', 'David Bowie', 'Can',
  'The Carpenters', 'Chicago', 'The Commodores', 'Crass', 'Deep Purple',
  'The Doobie Brothers', 'Eagles', 'Fleetwood Mac', 'Haciendo Punto en Otro Son',
  'Heart', 'Iggy Pop and the Stooges', 'Journey', 'Judas Priest',
  'KC and the Sunshine Band', 'Kiss', 'Kraftwerk', 'Led Zeppelin', 'Lindisfarne (ba
  'Lipps, Inc', 'Lynyrd Skynyrd', 'Pink Floyd', 'Queen', 'Ramones', 'REO Speedwagon
  'Rhythm Heritage', 'Rush', 'Sex Pistols', 'Slade', 'Steely Dan', 'Stillwater',
  'Styx', 'Supertramp', 'Sweet', 'Three Dog Night', 'The Village People',
  'Wings (fronted by former Beatle Paul McCartney)', 'Yes'], {});
</script>
```

### 4.2.2 Autocompleter.Base

`Autocompleter.Base` handles all the autocompletion functionality that's independent of the data source for autocompletion. This includes drawing the autocompletion menu, observing keyboard and mouse events, and similar.

#### Availability

script.aculo.us V1.1b1

#### Extending

Specific autocompleters need to provide, at the very least, a `getUpdatedChoices` function that will be invoked every time the text inside the monitored textbox changes. This method should get the text for which to provide autocompletion by invoking `this.getToken()`, NOT by directly accessing `this.element.value`. This is to allow incremental tokenized autocompletion. Specific auto-completion logic (AJAX, etc) belongs in `getUpdatedChoices`.

#### Tokenized autocompletion

Tokenized incremental autocompletion is enabled automatically when an autocompleter is instantiated with the 'tokens' option in the options parameter:

```
new Ajax.Autocompleter('id','upd', '/url/', { tokens: ',' });
```

will incrementally autocomplete with a comma as the token.

The ', ' in the above example can be replaced with an array, e.g. { tokens: [',', '\n'] } which enables autocompletion on multiple tokens. This is most useful when one of the tokens is \n (a newline), as it allows smart autocompletion after linebreaks.

### 4.2.3 Ajax.Autocompleter

The Ajax.Autocompleter class allows for server-powered autocompleting text fields.

#### Availability

script.aculo.us V1.1 ???

#### Syntax

```
new Ajax.Autocompleter(id_of_text_field, id_of_div_to_populate, url, options);
```

#### Options (inherited from Autocompleter.Base)

Option	Default	Description
paramName	'name' of the element	Name of the parameter for the string typed by the user on the autocompletion field
tokens	(empty array) []	See Autocompleter.Base
frequency	0.4	
minChars	1	Minimum characters required to query the server
indicator	null	When sending the Ajax request Autocompleter shows this element with Element.show. You can use this to e.g. display an animated "please-wait-while-we-are-working" gif. See here for examples. When the request has been completed it will be hidden with Element.hide.
updateElement	null	Hook for a custom function called after the element has been updated (i.e. when the user has selected an entry). This function is called instead of the built-in function that adds the list item text to the input field. The function receives one parameter only, the selected item (the <li> item selected)
afterUpdateElement	null	Hook for a custom function called after the element has been updated (i.e. when the user has selected an entry). This function is called after the built-in function that adds the list item text to the input field (note difference from above). The function receives two parameters, the autocompletion input field and the selected item (the <li> item selected)

#### Examples

##### HTML

```
<input type="text" id="autocomplete" name="autocomplete parameter"/>
<div id="autocomplete_choices" class="autocomplete"></div>
```

## Javascript

```
new Ajax.Autocompleter("autocomplete", "autocomplete_choices", "/url/on/server", {});
```

## HTML with indicator

```
<input type="text" id="autocomplete" name="autocomplete parameter"/>  
<span id="indicator1" style="display: none"></span>  
<div id="autocomplete_choices" class="autocomplete"></div>
```

(As with any element destined to work with Prototype's Element.toggle/show/hide, your indicator element should use an inline style attribute with a display property, here initially set to none. If you need to assign it CSS rules, put the class attribute before the style attribute to avoid override.)

## Javascript with options

```
new Ajax.Autocompleter("autocomplete", "autocomplete choices", "/url/on/server",  
{paramName: "value", minChars: 2, updateElement: addItemToList, indicator: 'indicator1'});
```

## CSS Styles

The styling of the div and the returned UL are important.

Applying a visual cue that an item is selected allows the user to take advantage of the keyboard navigation of the dropdown and adding background colors, borders, positioning, etc to the div (as the demo does) allows the UI element to stand out. The CSS from the demo applied to the examples would be

```
div.autocomplete {  
  position:absolute;  
  width:250px;  
  background-color:white;  
  border:1px solid #888;  
  margin:0px;  
  padding:0px;  
}  
div.autocomplete ul {  
  list-style-type:none;  
  margin:0px;  
  padding:0px;  
}  
div.autocomplete ul li.selected { background-color: #ffb;}  
div.autocomplete ul li {  
  list-style-type:none;  
  display:block;  
  margin:0;  
  padding:2px;  
  height:32px;  
  cursor:pointer;  
}
```

## Server return

Look through your POST environment variable for the current entry in the text-box.

The server-side will receive the typed string as a parameter with the same name as the name of the element of the autocompletion (name attribute). You can override it setting the option paramName.

### The server must return an unordered list.

For instance this list might be returned after the user typed the letter “y”

```
<ul>
  <li>your mom</li>
  <li>yodel</li>
</ul>
```

## Display additional information

If you wish to display additional information in the autocomplete dropdown that you don't want inserted into the field when you choose an item, surround it in a `<span>` (could work with others but not tested) with the class of "informal".

For instance the following shows a list of companies and their addresses, but only the company name will get inserted:

### Response

```
<ul>
  <li>ACME Inc <span class="informal"> 5012 East 5th Street</span></li>
  <li>Scriptaculous <span class="informal"> 1066 West Redlands Parkway</span></li>
</ul>
```

## Working with Callback

Another way to get additional information, just send an ID in every list, and redefine `afterUpdateElement`?

### Response

```
<ul>
  <li id="1">your mom</li>
  <li id="2">yodel</li>
</ul>
```

### Javascript

```
new Ajax.Autocompleter("autocomplete", "autocomplete choices", "/url/on/server",
  {afterUpdateElement : getSelectionId});

function getSelectionId(text, li) {
  alert (li.id);
}
```

## Notes

When a choice is highlighted the `Autocompleter` applies a class of "selected" to the `li` element. This allows the end user to style the selected element as desired.

## 4.3 InPlace Editing

Enter topic text here.

### 4.3.1 **Ajax.InPlaceEditor**

The in-place "text edit" testing allows for Flickr-style AJAX-backed "on-the-fly" textfields.

## Availability

script.aculo.us V1.5 and later.

## Syntax

```
new Ajax.InPlaceEditor( element, url, [options]);
```

The constructor takes three parameters. The first is the element that should support in-place editing. The second is the url to submit the changed value to. The server should respond with the updated value (the server might have post-processed it or validation might have prevented it from changing). The third is a hash of options.

## Options

Option	Since	Default	Description
okButton	V1.6	true	If a submit button is shown in edit mode (true,false)
okText	V1.5	"ok"	The text of the submit button that submits the changed value to the server
cancelLink	V1.6	true	If a cancel link is shown in edit mode (true,false)
cancelText	V1.5	"cancel"	The text of the link that cancels editing
savingText	V1.5	"Saving..."	The text shown while the text is sent to the server
clickToEditText	V1.6	"Click to edit"	The text shown during mouseover the editable text
formId	V1.5	id of the element to edit +'InPlaceForm'	The id given to the element
externalControl	V1.5	null	ID of an element that acts as an external control used to enter edit mode. The external control will be hidden when entering edit mode and shown again when leaving edit mode.
rows	V1.5	1	The row height of the input field (anything greater than 1 uses a multiline textarea for input)
cols	V1.5	none	The number of columns the text area should span (works for both single line or multi line)
size	V1.5	none	Synonym for 'cols' when using single-line (rows=1) input
highlightcolor	??	Ajax. InPlaceEditor. defaultHighlightColor	The highlight color
highlightendcolor	??	"#FFFFFF"	The color which the highlight fades to
savingClassName	V1.5	"inplaceeditor-saving"	CSS class added to the element while displaying "Saving..." (removed when server responds)
formClassName	V1.5	"inplaceeditor-form"	CSS class used for the in place edit form
hoverClassName	??	??	??
loadTextURL	V1.5	null	Will cause the text to be loaded from the server (useful if your text is actually textile and formatted on the server)
loadingText	V1.5	"Loading..."	If the loadText URL option is specified then this text is displayed while the text is being loaded from the server
callback	V1.5	function(form) {Form.serialize(form)}	A function that will get executed just before the request is sent to the server, should return the parameters to be sent in the URL. Will get two parameters, the entire form and the value of the text control.

submitOnBlur	V1.6	false	This option if true will submit the <code>in_place_edit</code> form when the input tag loses focus.
ajaxOptions	V1.5	(empty hash) {}	Options specified to all AJAX calls (loading and saving text), these options are passed through to the prototype AJAX classes.

Since version 1.6 you can provide the following callbacks in the options parameter:

Callback	Default	Description
onComplete	<code>"function(transport, element) {new Effect.Highlight(element, {startcolor: this.options.highlightcolor});}"</code>	Code run if update successful with server
onFailure	<code>"function(transport) {alert("Error communicating with the server: " + transport.responseText.stripTags());}"</code>	Code run if update failed with server

## Examples

### Single Line Edit Mode

```
<p id="editme">Click me, click me!</p>
<script type="text/javascript">
  new Ajax.InPlaceEditor('editme', '/demoajaxreturn.html');
</script>
```

### Multi Line Edit Mode

```
<p id="editme2">Click me to edit this nice long text.</p>
<script type="text/javascript">
  new Ajax.InPlaceEditor('editme2', '/demoajaxreturn.html', {rows:15,cols:40});
</script>
```

The server side component gets the new value as the parameter 'value' (POST method), and should send the new value as the body of the response.

## Notes

### Character encoding

The form data is sent encoded in UTF-8 regardless of the page encoding. This is as of the prototype function `Form.serialize`. More info here (web). If this doesn't work, you can use `iconv` as outlined here (web).

### Remove and force InPlaceEditor

To disable the `InPlaceEditor` behavior later on, store it in a variable like:

```
var editor = new Ajax.InPlaceEditor('product_1',...);
```

Later you can then remove the behaviour by calling:

```
editor.dispose();
```

This way, you can enable and disable In Place Editing at will. You can also arbitrarily force it into edit mode like so:

```
editor.enterEditMode('click');
```

### 4.3.2 Ajax.InPlaceCollectionEditor

Generates a selectbox from the values in the **collection** array.

#### Syntax

```
new Ajax.InPlaceCollectionEditor( element, url, { collection: [array], [moreOptions] } );
```

The constructor takes three parameters.

1. **element**: The element that should support in-place editing.
2. **url**: The url to submit the changed value to. The server should respond with the updated value (the server might have post-processed it or validation might have prevented it from changing).
3. **hash**: The third is a hash of options. Within that hash of options should be a field called **collection** that is an array of values to place inside your select box.

For **moreOptions** see Ajax.InPlaceEditor

#### Examples

##### HTML

```
<p title="Click to edit" id="tobeedited">Click me, click me!</p>
```

##### Javascript

```
new Ajax.InPlaceCollectionEditor(  
  'tobeedited', 'ajax_inplaceeditor_result.php', {  
    collection: ['one', 'two', 'three']  
  });
```

The server side component gets the new value as the parameter 'value' (POST method), and should send the new value as the body of the response.

#### Notes

##### Character encoding

The form data is sent encoded in UTF-8 regardless of the page encoding. This is as of the prototype function `Form.serialize`. More info here (web). If this doesn't work, you can use `iconv` as outlined here (web).

##### Remove and force InPlaceEditor

To disable the InPlaceEditor behavior later on, store it in a variable like:

```
var editor = new Ajax.InPlaceEditor('product_1',...);
```

Later you can then remove the behaviour by calling:

```
editor.dispose();
```

This way, you can enable and disable In Place Editing at will. You can also arbitrarily force it into edit mode like so:

```
editor.enterEditMode('click');
```

## 4.4 Slider

To make a slider element, you create a new instance of class **Control.Slider**.

### Availability

script.aculo.us V1.5 and later.

### Syntax

```
new Control.Slider('id_of_slider_handle','id_of_slider_track', [options]);
```

Options

Option	Since	Default	Description
axis	V1.5	'horizontal'	Sets the direction that the slider will move in. It should either be horizontal or vertical.
increment	V1.5	1	Defines the relationship of value to pixels. Setting this to 1 will mean each movement of 1 pixel equates to 1 value.
maximum	V1.5	length of track in pixels adjusted by increment	The maximum value that the slider will move to. For horizontal this is to the right while vertical it is down.
minimum	V1.5	0	The minimum value that the slider can move to. For horizontal this is to the left while vertical it is up. Note: this also sets the beginning of the slider (zeroes it out).
alignX	V1.5	0	This will move the starting point on the x-axis for the handle in relation to the track. It is often used to move the 'point' of the handle to where 0 should be. It can also be used to set a different starting point on the track.
alignY	V1.5	0	This will move the starting point on the y-axis for the handle in relation to the track. It is often used to move the 'point' of the handle to where 0 should be. It can also be used to set a different starting point on the track.
sliderValue	V1.5	0	Will set the initial slider value. The handle will be set to this value, assuming it is within the minimum and maximum values.
handleImage	V1.5	(none)	The id of the image that represents the handle. This is used to swap out the image src with disabled image src when the slider is enabled.
disabled	V1.5	(none)	This will lock the slider so that it will not move and thus is disabled.
handleDisabled	V1.5	(none)	The id of the image that represents the disabled handle. This is used to change the image src when the slider is disabled.
values	V1.5	(none)	Accepts an array of integers. If set these will be the only legal values for the slider to be at. Thus you can set specific slider values that the user can move the slider to.
range	??	(none)	Use the $\$(min,max)$ , provided by Prototype Library

The slider control offers some functions to let javascript update its state:

Function	Description
setValue	Will update the slider's value and thus move the slider handle to the appropriate position. If you're using multiple handles, then the id should be the second paramater (the 'active' (last-used?) handle is used by default) NOTE: when using setValue, the callback functions (below) are called.
setDisabled	Will set the slider to the disabled state (disabled = true).
setEnabled	Will set the slider to the enabled state (disabled = false).

Additionally, the options parameter can take the following callback function:

Callback	Description
onSlide	Called whenever the Slider is moved by dragging. The called function gets the slider value as its parameter.
onChange	Called whenever the Slider has finished moving or has had its value changed via the setValue function. The called function gets the slider value as its parameter.

With both of the above, using multiple handles causes an array of their respective values to be passed to the callback. Both receive the Slider object as a second paramater.

## Examples

From the author's first demo of a vertical slider. It begins disabled.

```
var s2 = new Control.Slider('slider 2','track 2', {axis:'vertical',
  minimum: 60, maximum:288, alignX: -28, alignY: -5, disabled: true,
  handleImage: 'slider_2handle', handleDisabled: 'images/vsliderhandle_gray.gif'});
```

Example of a horizontal slider that allows only 4 possible values

```
var sliderLimited = new Control.Slider('slider Limited','track Limited', {
  minimum:2, maximum:30, increment:9, alignX: -5, alignY: -5,
  values: [2, 10, 15, 30]});
```

Setting the callbacks for the first example slider, referenced by "s2"

```
s2.options.onChange = function(value){
  activeProfile.height = value;
  updateBankDescription();
  setResizeDesc();
  $('height value').innerHTML = value;
};
s2.options.onSlide = function(value){
  vidFrame1.setHeight(value);
  $('height value').innerHTML = value;
  setResizeDesc();
};
```

Here are some examples of disabling and setting the values outside of the slider

```
// continued from the above example
s2.setValue(60);
s2.setDisabled();
```

An easy way to convert the standard output decimal value to whole integers:

```
(value*100).toFixed();
```

Leaving minimum, maximum and increment undefined, adding this to your value handling will produce the integers 0-100.

## Notes

The handle and track elements have to be loaded into the browser before the Slider instance is created. You should either place the script tags creating the slider after your elements in your HTML document, or use the `body.onload` callback to create the slider after everything has finished rendering.

See also - Online Slider Demo:  
<http://wiki.script.aculo.us/scriptaculous/show/SliderDemo>

## 5 Tools

### 5.1 Builder

Use Builder to easily create DOM elements dynamically.

#### Availability

script.aculo.us V1.5 and later.

#### Synopsis

```
Builder.node( elementName )
Builder.node( elementName, attributes )
Builder.node( elementName, children )
Builder.node( elementName, attributes, children )
```

- **elementName** *string*            The tag name for the element.
- **attributes** *object*            Typical attributes are id, className, style, onclick, etc.
- **children** *array*                List of other nodes to be appended as children.

If an element of the children array is plain text or numeric, it will be automatically appended as a text node.

Instead of an array, children can also be a Java Script String or numeric, to ease usage.

#### Special cases

- **class**: When specifying the class attribute for the node, use `className` to circumvent a Firefox bug.
- **for**: To set a for attribute (in labels) use `htmlFor`, since 'for' is a reserved word in javascript.

## Examples

### Creating TR and TD elements

```
table = Builder.node('table', {width:'100%',cellpadding:'2',cellspacing:'0',border:'0'});
tbody = Builder.node('tbody');
tr = Builder.node('tr',{className:'header'});
td = Builder.node('td',[ Builder.node('strong','Category')]);

tr.appendChild(td);
tbody.appendChild(tr);
table.appendChild(tbody);

$('divCat').appendChild(table);
```

You can also combine them but you need to make sure you create the tbody tag or it will not work in IE. I have tested this in FF 1.5 and IE 6. I don't have access to other browsers. The one problem that I have found is that with TR and TD elements you can not put a style tag on them as it just makes IE stop doing the Builder Function.

### Simple Example

```
var element = Builder.node('p',{className:'error'},'An error has occurred');
```

creates following element:

```
<p class="error">An error has occurred</p>
```

### Complex Example

```
element = Builder.node('div',{id:'ghosttrain'},[
  Builder.node('div',{className:'controls',style:'font-size:11px'},[
    Builder.node('h1','Ghost Train'),
    "testtext", 2, 3, 4,
    Builder.node('ul',[
      Builder.node('li',{className:'active', onclick:'test()'},'Record')
    ]),
  ]),
]);
```

creates (without newlines):

```
<div id="ghosttrain">
  <div class="controls" style="font-size:11px">
    <h1>Ghost Train</h1>
    testtext234
    <ul>
      <li class="active" onclick="test()">Record</li>
    </ul>
  </div>
</div>
```

## Usage

In javascript code, if you want to use your new element, you can add it to an existing dom element by calling

```
$('#myExistingDomElement').appendChild(element);
```

If you want to be able to call any of prototype's extension-methods on the created node, then you need to pass it through the \$() function:

```
var new el = Builder.node('div',{id:'some id'});
new el = $(new el);
new el.hide();
```

## 5.2 Sound

Plays a sound file. The sound player uses native sound support on Internet Explorer, and falls back to using <embed> on other browsers, which means it uses QuickTime for most cases.

### Availability

script.aculo.us V1.7.1 and later.

## Syntax

```
Sound.play(soundfileUrl, [options])
```

## Options

Option	Default	Description
track	'global'	Name of the sound container
replace	false	If true, will stop all currently playing sounds and play the new sound. If no track is given, it will stop all sounds in 'global'

## Examples

Play sound immediately in 'global' track

```
Sound.play('alert.mp3');
```

Stop playing all sounds in 'global' track and play the new sound

```
Sound.play('notice.mp3', {replace:true});
```

Place the given sound into 'chat' track, and play all sounds in 'chat'

```
Sound.play('info.mp3', {track:'chat'});
```

Stop playing all sounds in 'chat' track and play the new sound

```
Sound.play('error.mp3', {track:'chat', replace:true});
```

## Notes

The recommended format to use is MP3.

## 6 Appendix

### 6.1 Block Elements

Block elements are HTML elements that by default are displayed as a block in the page flow. Normally, if no styles change the default behaviour, elements of the following types are considered block elements:

- \* ADDRESS
- \* BLOCKQUOTE
- \* BODY
- \* DD
- \* DIV
- \* DL
- \* DT
- \* FIELDSET
- \* FORM,
- \* FRAME
- \* FRAMESET
- \* H1, H2, H3, H4, H5, H6
- \* IFRAME
- \* NOFRAMES

- \* OBJECT
- \* P
- \* OL, UL, LI
- \* APPLET
- \* CENTER
- \* DIR
- \* HR
- \* MENU
- \* PRE

Additionally, TABLE, TR, THEAD, TBODY, TFOOT, COL, COLGROUP, TD, TH and CAPTION are to be considered block-level elements, although they use special values for their display attributes. More detailed info available through the CSS spec.

## 6.2 Inline Elements

Inline elements are HTML elements that by default are placed side-by-side into lines. (Paragraphs are blocks, an italicized word is inline.)

Normally, if no styles change the default behaviour, elements of the following types are considered inline elements (some of these types are not allowed in strict HTML 4 and XHTML):

### Fontstyle (use style sheets instead)

- \* T
- \* I
- \* B
- \* BIG
- \* SMALL

### Phrase

- \* EM
- \* STRONG
- \* DFN
- \* CODE
- \* SAMP
- \* KBD
- \* VAR
- \* CITE
- \* ABBR
- \* ACRONYM

### Special

- \* A
- \* IMG
- \* OBJECT
- \* BR
- \* SCRIPT
- \* MAP
- \* Q
- \* SUB
- \* SUP
- \* SPAN
- \* BDO

### Form controls

```
* INPUT
* SELECT
* TEXTAREA
* LABEL
* BUTTON
```

It's not too common to cause these to be rendered as blocks, but you can do it simply by adding the CSS declaration `display: block`.

## 6.3 Giving Elements Layout

For Effect.Opacity based effects to work in **Internet Explorer**, you need to have give the affected elements the so-called 'layout' quality. The object that the filter is applied to must have layout before the filter effect displays.

**You can give the object layout by doing one of the following:**

- Setting the height or width property (doesn't work on inline elements when the browser is not in quirksmode but in standards-compliant mode)
- Setting the display property to inline-block
- Setting the position property to absolute
- Setting the writingMode property to tb-rl
- Setting the contentEditable property to true

Source: <http://msdn.microsoft.com/workshop/author/filter/reference/filters/alpha.asp>