

JavaScript Animate

Sicherlich gibt es einige fertige Routinen um eine Animation (slide, resize, ...) zu erzielen, z.B. jQuery .animate() aber manchmal reicht auch die kleine Lösung.

fade in fade out move left move right



[animate_functions.htm \(/code/animate_functions.htm?mode=download\)](#) HTML (2,74 kByte) 30.03.2014 22:55

```
<!DOCTYPE html >
<html lang="en">
<head><meta charset="utf-8" />
<title>Simple Animate Example
</title>
<script type="text/javascript">
/*  */
window.requestAnimFrame = (function(){
return window.requestAnimationFrame ||
window.webkitRequestAnimationFrame ||
window.mozRequestAnimationFrame ||
function(callback){
window.setTimeout(callback, 1000 / 60);
};
})();
function getOpacity(el, def) {
var result;
var style=document.defaultView.getComputedStyle(el, null);
if ('opacity' in style) {
result = style.opacity;
} else if ('MozOpacity' in style) {
result = style.MozOpacity;
} else if ('filter' in style) {
var match = style.filter.match(/alpha\(opacity=([d.]+)\)/);
if (match) {
result = String(match[1] / 100);
}
};
result = parseInt(result);
if (!isNaN(result)) result = def;
return result;
}
function setOpacity(el, val) {
el.style.opacity = val;
el.style.MozOpacity = val;
el.style.filter = "alpha(opacity=" + (val*100) + ")";
}
function animate(id, attr, dest, callback) {
var from, attribute = attr, to = dest, fc = callback, el = document.getElementById(id);
if (attribute == 'opacity') {
from = parseInt(getOpacity(el, (to == '0' ? '1' : '0')));
} else {
if (el.style.getPropertyValue) {
from = parseInt(el.style.getPropertyValue(attribute));
} else {
from = parseInt(el.style.getAttribute(attribute));
}
};
if (from == to) return;
var start = Date.now();
var output = document.getElementById('output');
var tick = function() {
var t = Math.min(1, ((Date.now() - start) / 1000));
var eased = t &lt; .5 ? 4*t*t*t*t : (t-1)*(2*t-2)*(2*t-2)+1;
var val = (eased * (to - from)) + from;
if (attribute == 'opacity') {
setOpacity(el, val);
} else {
if (el.style.setProperty) {
el.style.setProperty(attribute, val + "px");
} else {
el.style.setAttribute(attribute, val + "px");
}
}
};
if (t &lt; 1) {</pre></div>
```

```

    window.requestAnimationFrame(tick);
  } else {
    if (fc) fc();
  }
};
tick();
}
/* ]]> */
</script>
</head>
<body>
<button onclick="animate('el', 'opacity', '1');">fade in
</button>
<button onclick="animate('el', 'opacity', '0');">fade out
</button>
<button onclick="animate('el', 'left', '0');">move left
</button>
<button onclick="animate('el', 'left', document.getElementById('wrapper').offsetWidth-100);">move right
</button>
<div id="wrapper" style="position: relative; width:100%;">
  <div id="el" style="position:absolute; left:150px; top:0; display:block; background-color:silver; border:1px solid red; width:100px; height:100px;"></div>
</div>
</body>
</html>

```

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