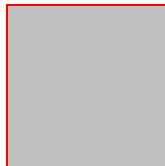


JavaScript Animate

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



HTML

[animate_functions.htm](#) HTML (428 Bytes) 26.10.2021 22:54

```
<!DOCTYPE html >
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <title>Simple Animate Example</title>
  </head>
  <body><button id="fadeIn">fade in</button><button id="fadeOut">fade out</button><button id="moveLeft">move left</button><button id="moveRight">move right</button>
    <div id="wrapper">
      <div id="el"></div>
    </div>
    <script src="animate.js"></script>
  </body>
</html>
```

StyleSheet

[animate.js](#) JavaScript (2,61 kB) 26.10.2021 22:47

```
// coding: utf-8
/** Created by: Udo Schmal | https://www.gocher.me/ */
(function () {
  'use strict';
  var el = document.getElementById('el'),
    wrapper = document.getElementById('wrapper');
  wrapper.style.position = 'relative';
  wrapper.style.height = '105px';
  wrapper.style.width = '100%';
  el.style.position = 'absolute';
  el.style.left = '150px';
  el.style.top = '0';
  el.style.display = 'block';
  el.style.backgroundColor = 'silver';
  el.style.border = '1px solid red';
  el.style.width = '100px';
```

```

el.style.height = '100px';

function getOpacity(def) {
    var result;
    var style=document.defaultView.getComputedStyle(el, null);
    if ('opacity' in style) {
        result = style.opacity;
    }
    result = parseInt(result);
    if (!isNaN(result)) result = def;
    return result;
}

function setOpacity(el, val) {
    el.style.opacity = val;
}

function animateBox(attr, dest, callback) {
    var from, attribute = attr, to = dest, fc = callback;
    if (attribute == 'opacity') {
        from = parseInt(getOpacity(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<.5 ? 4*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<1) {
            window.requestAnimationFrame(tick);
        } else {
            if (fc) fc();
        }
    };
}

```

```

    tick();
}

var fadeIn = document.getElementById('fadeIn');
if (fadeIn) {
    fadeIn.addEventListener('click', function () {
        animateBox('opacity', '1');
    });
}
var fadeOut = document.getElementById('fadeOut');
if (fadeOut) {
    fadeOut.addEventListener('click', function () {
        animateBox('opacity', '0');
    });
}
var moveLeft = document.getElementById('moveLeft');
if (moveLeft) {
    moveLeft.addEventListener('click', function () {
        animateBox('left', '0');
    });
}
var moveRight = document.getElementById('moveRight');
if (moveRight) {
    moveRight.addEventListener('click', function () {
        animateBox('left', wrapper.offsetWidth-100);
    });
}
})();

```

Autor: [Udo Schmal](#), veröffentlicht: 15.03.2014, letzte Änderung: 29.08.2024

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