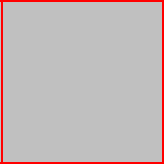


JavaScript Fade

in out



Sicherlich gibt es einige fertige Routinen um einen Fade Effekt zu erzielen, z.B. jQuery `.fadeIn()` und `.fadeOut()`, aber manchmal reicht auch die kleine Lösung.

HTML

[fade.htm](#) HTML (324 Bytes) 27.10.2021 22:44

```
<!DOCTYPE html >
<html lang="de">
  <head>
    <meta charset="utf-8" />
    <title>fade</title>
  </head>
  <body><button id="fadeIn">in</button><button id="fadeOut">out</button>
    <div id="wrapper">
      <div id="el"></div>
    </div>
    <script src="fade_object.js"></script>
  </body>
</html>
```

JavaScript

[fade functions.js](#) JavaScript (1,77 kByte) 27.10.2021 22:46

```
// coding: utf-8
/** Created by: Udo Schmal | https://www.gocher.me/ */
(function () {
  function getOpacity(el, 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 fadeIn(el) {
  var opacity = getOpacity(el, 0);
  var last = new Date();
  var tick = function() {
    opacity += (new Date() - last) / 400;
    setOpacity(el, (opacity>1 ? 1 : opacity));
    last = new Date();
    if (opacity < 1) { window.requestAnimationFrame(tick); }
  };
  tick();
}

function fadeOut(el) {
  var opacity = getOpacity(el, 1);
  var last = new Date();
  var tick = function() {
    opacity -= (new Date() - last) / 400;
    setOpacity(el, (opacity<0 ? 0 : opacity));
    last = new Date();
    if (opacity > 0) { window.requestAnimationFrame(tick); }
  };
  tick();
}

var el = document.getElementById('el'),
wrapper = document.getElementById('wrapper');
wrapper.style.position = 'relative';
wrapper.style.height = '105px';
wrapper.style.width = '100%';
el.style.display = 'block';
el.style.backgroundColor = 'silver';
el.style.border = '1px solid red';
el.style.width = '100px';
el.style.height = '100px';
var btnFadeIn = document.getElementById('fadeIn');
if (btnFadeIn) {
  btnFadeIn.addEventListener('click', function () {
    fadeIn(el);
  });
}
var btnFadeOut = document.getElementById('fadeOut');
if (btnFadeOut) {
  btnFadeOut.addEventListener('click', function () {
    fadeOut(el);
  });
}
})();

```

 [fade object.js](#) JavaScript (2,53 kByte) 27.10.2021 22:46

```

// coding: utf-8
/** Created by: Udo Schmal | https://www.gocher.me/ */

```

```

(function () {
  if (!window.Element) {
    Element = function(){};
    var __createElement = document.createElement;
    document.createElement = function(tagName) {
      var element = __createElement(tagName);
      if (element == null) {return null;}
      for (var key in Element.prototype)
        element[key] = Element.prototype[key];
      return element;
    }
    var __getElementById = document.getElementById;
    document.getElementById = function(id) {
      var element = __getElementById(id);
      if (element == null) {return null;}
      for (var key in Element.prototype)
        element[key] = Element.prototype[key];
      return element;
    }
  }
  Element.prototype.getOpacity = function(def) {
    var result;
    var style = document.defaultView.getComputedStyle(this, null);
    if ('opacity' in style) {
      result = style.opacity;
    }
    result = parseInt(result);
    if (!isNaN(result)) result = def;
    return result;
  };
  Element.prototype.setOpacity = function(val) {
    this.style.opacity = val;
  };
  Element.prototype.fadeIn = function() {
    var self = this;
    var opacity = this.getOpacity(0);
    var last = new Date();
    var tick = function() {
      opacity += (new Date() - last) / 400;
      self.setOpacity(opacity>1 ? 1 : opacity);
      last = new Date();
      if (opacity < 1) { window.requestAnimationFrame(tick); }
    };
    tick();
  };
  Element.prototype.fadeOut = function() {
    var self = this;
    var opacity = this.getOpacity(1);
    var last = new Date();
    var tick = function() {

```

```

    opacity -= (new Date() - last) / 400;
    self.setOpacity(opacity<0 ? 0 : opacity);
    last = new Date();
    if (opacity > 0) { window.requestAnimationFrame(tick); }
};
tick();
};

var el = document.getElementById('el'),
wrapper = document.getElementById('wrapper');
wrapper.style.position = 'relative';
wrapper.style.height = '105px';
wrapper.style.width = '100%';
el.style.display = 'block';
el.style.backgroundColor = 'silver';
el.style.border = '1px solid red';
el.style.width = '100px';
el.style.height = '100px';
var fadeIn = document.getElementById('fadeIn');
if (fadeIn) {
    fadeIn.addEventListener('click', function () {
        el.fadeIn();
    });
}
var fadeOut = document.getElementById('fadeOut');
if (fadeOut) {
    fadeOut.addEventListener('click', function () {
        el.fadeOut();
    });
}
})();

```

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

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