```
C:\Users\Archie\Documents\Dropbox\Gibb\Semester 2\133 - Web
                                                                                                        stag, 26. Februar 2013 07:55
var COOKIE NAME = 'calc-result'
var COORLE NAME = 'Calc-result'
var LOAD_TIME = new Date()

/* Cookie Firefox (via Firefox Cookies view):
Name: calc-result
  Path:
   /C:/Users/Archie/Documents/Dropbox/Gibb/Semester%202/133%20-%20Webapplikation%20realiseren/t
  Send For: Any type of connection
Expires: Samstag, 8. Februar 2014 16:13:14
Location according to Windows Explorer:
C:\Users\Archie\AppData\Local\Microsoft\Windows\Temporary Internet Files\Taschrenrechner/
Location according to TextEditor:
C:\Users\Archie\AppData\Roaming\Microsoft\Windows\Cookies\U1WZH03N.txt
Inhalt:
calc-result
  0.037391194276
   ~~local~~/C:/Users/Archie/Documents/Dropbox/Gibb/Semester%202/133%20-%20Webapplikation%20rea
   1088
   1265827584
   3543310627
//Cookie functions taken from (and then modified): http://www.w3schools.com/js/js cookies.asp
function setCookie(cookie_name,value,daysUntilExpire)
  var expireDate=new Date();
expireDate.setDate(expireDate.getDate() + daysUntilExpire);
var c_value=encodeURIComponent(value) + ((daysUntilExpire===
                                                                                ==null) ? "" : "; expires="+
   expireDate.toUTCString());
  document.cookie=cookie_name + "=" + c_value;
function getCookie (cookie name)
   var i, key_value, cookies = document.cookie.split(";");
  for (i = 0; i < cookies.length; i++) {
  key_value = cookies[i].split("=");
  if (key_value[0].trim() === cookie_name) return decodeURIComponent(key_value[1])</pre>
function loadResult()
 var result=getCookie(COOKIE_NAME);
if (result!=null && result!="")
```

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Dienstag, 26. Februar 2013 07:55
                         pbox\Gibb\Semester 2\133 - Webapp
  setValue(result)
   //We update the clock and the time-passed display 5 times a sec
  setInterval(function() {
    window.document.Rechner.Date.value = new Date().toLocaleString()

// Subtracking 3600*1000ms = 1 Hour because of GMT offset (I guess...)
window.document.Rechner.Visited.value = new Date(new Date() - LOAD_TIME-3600*1000).
     toTimeString().slice(0,8)
 }, 200)
function saveResult ()
  result=getValue()
if (result!=null && result!="")
     setCookie(COOKIE_NAME, result, 365);
//Save and load the cookie onunload respectively onload window.onbeforeunload = saveResult
window.onload = loadResult
//Firefox: 100% Trigger this even.
//Chromium: No backspace/delete (and other special keys I guess)
//IE: Like Chrome or sometimes "No Keypress event ..." (The reason is unkown to me)
window.onkeypress=handleKeyPressEvent
//Firefox: 100% Trigger this event
//Chromium/IE: Backspace/delete (etc) also trigger this event
//Backspace always goes back one page except if there is no history.
window.onkeyup=handleKeyUp
function setValue(value) {
  window.document.Rechner.Display.value = value
function getValue() {
  return window.document.Rechner.Display.value
function setError(error) {
  setValue(error.message+":"+ getValue())
function validate(input) {
  return /^[0-9-+*\/.()]+$/.test(input)
function calculateResult() {
  if (validate(getValue())) {
     try {
     //If there is a syntax error (e.g. 2**4 or 2++2 \dots)
     x = eval(getValue())
```

```
setValue(round(x))
 } catch (e) {

// Tell the user it is a syntax error
     setError(e)
 } else {
    setValue('')
function round(num) {
 return Number ((num).toFixed(12))
function add (chr) {
  setValue(getValue() + chr)
function handleKeyPressEvent(e) {
  if (e.target.name !== "Display")
    if (e.charCode >= 40 ) //40 = '('
      add (String.fromCharCode (e.charCode))
    }
 }
function handleKeyUp(e) {
  if (e.target.name !== "Display")
      //For Firefox, this could be in handleKeyPressEvent
      switch(e.keyCode) {
  case 8: //'backspace'
         setValue(getValue().slice(^{0},-^{1}))
        break
        case 13: // enter
         calculateResult ()
        break
        case 46: // delete
          etValue(getValue().slice(1))
        break
    return Math.PI/180 * num
  function specials (func) { var x = 0
  try { //If there is an error (e.g. 2**4 or 2++2 ...)
if (validate(x)) {
      x = eval(getValue())
if (func === "sqrt") {
```

```
setValue(round(Math.sqrt(x)))
      setValue(round(x * x))
   if (func === "ln") {
      setValue (round (Math.log(x)))
               = "sin") {
   if (func
      setValue (round (Math.sin (degreeToRadian (x))))
   if (func =
      setValue(round(Math.cos(degreeToRadian(x))))
   if (func === "tan") {
      setValue(round(Math.tan(degreeToRadian(x))))
    if (func === "2^x") {
      setValue(round(Math.pow(2,x)))
 } else {
} catch (e) {
              user it is an error
  setError(e)
```