# html5-form-dates2.xhtml

<script type="text/javascript">

// <![CDATA[

"use strict;"

**function showData( form ) {**

"use strict;"

alert ("day: "+form.day.value +"\n"+

"month: "+form.month.value+"\n"+

"year: "+form.year.value+"\n"+

"datetime: "+form.datetime.value+"\n"+

"datetime\_local: "+form.datetime\_local.value+"\n"+

"date: "+form.date.value+"\n"+

"week: "+form.week.value+"\n"+

"time: "+form.time.value) ;

}

**function absolutDay(day, month, year) {**

var delta\_tage = new Array(0,3,3,6,8,11,13,16,19,21,24,26);

var j4, j100, j400;

var f;

if ( (day==0) || (month==0) ||(year==0) ) return 0;

f=365.25\*(year-1.0) +28.0\*(month-1.0)+delta\_tage[month-1]+day;

if (month>2) {

// 2000 ist Schaltjahr 1900 nicht

j4=year % 4;

j100=year % 100; // Schaltjahr wenn = 0 1900 oder 2000

j400=year % 400; // nun 2000 2400

if ( ((j4==0)&&(j100>0)) || (j400==0) ) f++;

}

return Math.floor(f);

} // absolutDay

function isSchaltjahr(year) {

var rest=year % 4;

if (rest==0) {

rest=year%100;

if (rest==0) {

rest=year%400; // check 1900 2000

if (rest==0)

return true;

else {

return false;

}

}

else

return true;

}

else {

return false;

}

} // isSchaltjahr

**function checkDate(day, month, year) {**

"use strict;"

var maxtage=0;

if (day<=0 || day>31) return false;

if (month<=0 || month>12) return false;

if (year<1900 || year>2200) return false;

switch (month) {

case 1:

case 3:

case 4:

case 7:

case 8:

case 10:

case 12: maxtage=31;

break;

case 4:

case 6:

case 9:

case 11: maxtage=30; break;

case 2: var rest=year % 4;

if (rest==0) {

rest=year%100;

if (rest==0) {

rest=year%400; // check 1900 2000

if (rest==0)

maxtage=29;

else

maxtage=28;

}

else {

maxtage=29;

}

}

else {

maxtage=28;

}

} // switch

// alert("maxtage: "+maxtage);

return day<=maxtage;

} // checkDate

**function checkYear(year) {**

"use strict;"

if (year<1900 || year>2200)

return false;

else

return true;

}

**function checkTime(hour, min, sec) {**

"use strict;"

if (hour<0 || hour>23 ) return false;

if (min<0 || min>59 ) return false;

if (sec<0 || sec>59 ) return false;

return true;

}

**function checkFormDayDate( value) {**

"use strict;"

var values = value.split(".");

if (values.length<3) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

var day, month, year;

if ( isNaN(values[0]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

day = parseInt(values[0]);

}

if ( isNaN(values[1]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

month = parseInt(values[1]);

}

if ( isNaN(values[2]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

year = parseInt(values[2]);

}

if (checkDate(day, month, year)) {

alert("Day: "+day+" Month: "+month+" Year: "+year);

return true;

}

else {

alert("Falsches Datumsformat: \n"+value);

return false;

}

} // if (values.length<3) {

}

**function checkFormMonth( value) {**

"use strict;"

var values = value.split(" ");

if (values.length<2) {

alert("Falsches Monatsformat: \n"+value);

return false;

}

else {

var month, year;

month = values[0];

if ( isNaN(values[1]) ) {

alert("Falsches Monatsformat: \n"+value);

return false;

}

else {

year= parseInt(values[1]);

}

if (!checkYear(year)) {

alert("Falsches Monatsformat: \n"+value);

return false;

}

var month2 = month.toLowerCase();

if (month2=="januar" || month2=="februar" || month2=="märz" || month2=="april" ||

month2=="mai" || month2=="juni" || month2=="juli" || month2=="august" ||

month2=="september" || month2=="oktober" || month2=="november" || month2=="dezember" ) {

alert("Korrektes Monatsformat: \n"+"Monat: "+month+" Jahr: "+year);

return true;

}

else {

alert("Falsches Monatsformat: \n"+value);

return false;

}

} // if (values.length<2) {

} // checkFormMonth

**function checkFormYear( value) {**

"use strict;"

if ( isNaN(value) ) {

alert("Falsches Jahresformat: \n"+value);

return false;

}

else {

year = parseInt(value);

if (checkYear(year)) {

alert("Year: "+year);

return true;

}

else {

alert("Falsches Jahresformat: \n"+value);

return false;

}

}

}

**function checkFormDatetime( value) {**

"use strict;"

var values = value.split(" ");

if (values.length<2) {

alert("Falsches DateTimeformat: \n"+value);

return false;

}

else {

if (!checkFormDayDate(values[0])) return false;

if (!checkFormTime(values[1])) return false;

return true;

} // if (values.length<2) {

}

**function checkWeek(week, year) {**

"use strict;"

if (week<0 || week>53) return false;

if (year<1900 || year>2200) return false;

var zeit1, zeit2, zeit3;

zeit1 = absolutDay(1, 1, 1900); // dies ist ein Montag

zeit2 = absolutDay(1, 1, year);

zeit3 = zeit2 - zeit1-1;

var weekday = zeit3 %7; // 0=montag

// wenn 1.1.year auf einem Donnerstag liegt, gibt es 53 Wochen

var countWeeks;

if (weekday==3)

countWeeks=53;

else

countWeeks=52;

return week>0 && week<=countWeeks;

}

**function checkWeek2(week, year) {**

"use strict;"

if (week<0 || week>53) return false;

if (year<1900 || year>2200) return false;

var myDate = new Date(1,1,year);

var weekday = myDate.getDay(); // 0=Montag

// wenn 1.1.year auf einem Donnerstag liegt, gibt es 53 Wochen

var countWeeks;

if (weekday==3)

countWeeks=53;

else

countWeeks=52;

return week>0 && week<=countWeeks;

}

**function checkFormWeek( value) {**

"use strict;"

var values = value.split(","); // "Woche 56", und "2015"

if (values.length<2) {

alert("Falsches DateWochenformat: \n"+value);

return false;

}

var year;

if ( isNaN(values[1]) ) {

alert("Falsches Jahresformat: \n"+value);

return false;

}

year=parseInt(values[1]);

if (!checkYear(year)) {

alert("Falsches Jahr: \n"+value);

return false;

}

var week=values[0]; // Woche 56

var values = week.split(" "); // "Woche 56"

if ( isNaN(values[1]) ) {

alert("Falsches Monatsformat: \n"+value);

return false;

}

week=parseInt(values[1]);

if (checkWeek(week, year)) { // checkWeek

alert("Woche: "+week+" Jahr: "+year);

return true;

}

else {

alert("falsche Woche");

return false;

}

} // checkFormWeek

**function checkFormTime( value) {**

"use strict;"

var values = value.split(":");

if (values.length<2) {

alert("Falsches Zeitformat: \n"+value);

return false;

}

else {

var hour, min, sec;

if ( isNaN(values[0]) ) {

alert("Falsches Zeitformat: \n"+value);

return false;

}

else {

hour= parseInt(values[0]);

}

if ( isNaN(values[1]) ) {

alert("Falsches Zeitformat: \n"+value);

return false;

}

else {

min= parseInt(values[1]);

}

if (values.length==3) {

if ( isNaN(values[2]) ) {

alert("Falsches Zeitformat: \n"+value);

return false;

}

else {

sec= parseInt(values[2]);

}

}

else

sec=0;

if (checkTime(hour, min, sec)) {

alert("Hour: "+hour+" Min: "+min+" Sec: "+sec);

return true;

}

else {

alert("Falsches Zeitformat: \n"+value);

return false;

}

} // if (values.length<2) {

} // checkFormTime

// ]]>

</script>

function tageAbsolut(day, month, year) {

var delta\_tage = new Array(0,3,3,6,8,11,13,16,19,21,24,26);

var k4, k100, k400;

var f;

if ( (day==0) || (month==0) ||(year==0) ) return 0;

f=365.25\*(year-1.0) +28.0\*(month-1.0)+delta\_tage[month-1]+day;

if (month>2) {

// 2000 ist Schaltjahr 1900 nicht

k4=year % 4;

k100=year % 100; // Schaltjahr wenn = 0 1900 oder 2000

k400=year % 400; // nun 2000 2400

if ( ((k4==0)&&(k100>0)) || (k400==0) ) f++;

}

return Math.floor(f);

} // tageabsolut

function checkYear(year) {

"use strict;"

if (year<1900 || year>2200) return false;

return true;

}

function checkWeek(week, year) {

"use strict;"

if (week<0 || week>53) return false;

if (year<1900 || year>2200) return false;

return true;

}

function checkDate(day, month, year) {

"use strict;"

var maxtage=0;

if (day<0 || day>31) return false;

if (month<0 || month>12) return false;

if (year<1900 || year>2200) return false;

switch (month) {

case 1:

case 3:

case 4:

case 7:

case 8:

case 10:

case 12: maxtage=31;

break;

case 4:

case 6:

case 9:

case 11: maxtage=30; break;

case 2: var rest=year % 4;

if (rest==0) {

rest=year%100;

if (rest==0)

maxtage=29;

else

maxtage=28;

}

else {

maxtage=28;

}

} // switch

// alert("maxtage: "+maxtage);

if (day>maxtage)

return false;

else

return true;

} // checkDate

function checkFormDayDate( value) {

"use strict;"

var values = value.split(".");

if (values.length<3) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

var day, month, year;

if ( isNaN(values[0]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

day = parseInt(values[0]);

}

if ( isNaN(values[1]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

month = parseInt(values[1]);

}

if ( isNaN(values[2]) ) {

alert("Falsches Datumsformat: \n"+value);

return false;

}

else {

year = parseInt(values[2]);

}

if (checkDate(day, month, year)) {

alert("Day: "+day+" Month: "+month+" Year: "+year);

var wtag = getWeekDay(day, month, year);

alert(wtag);

return true;

}

else {

alert("Falsches Datumsformat: \n"+value);

return false;

}

} // if (values.length<3) {

}

// 0=montag

function getWeekDay(day, month, year) {

"use strict;"

if (!checkDate(day, month, year)) return -1;

var zeit1, zeit2, zeit3;

var wochentag;

zeit1 = tageAbsolut(1, 1, 1900); // dies ist ein Montag

alert("zeit1: "+zeit1 );

zeit2 = tageAbsolut(day, month, year);

alert("zeit2: "+zeit2 );

zeit3 = zeit2 - zeit1-1;

alert("zeit3: "+zeit3 );

var wochentag = zeit3 %7;

return wochentag;

}