



## Javascript calculate Age from Birthdate

In our day to day programming we often come across business logic that depends on the age of a person. So in reality we ask for the persons date of birth and then we have to find the age, after that do some type of validation based on that age. Here is an example just to address that need in JavaScript.

 Enter Birth Date:   (in MM/DD/YYYY format)

```
<html>
<head>
</head>
<body>

<SCRIPT LANGUAGE="JavaScript1.2"> <!--

function myAgeValidation() {

    var lre = /\s*/;
    var datemsg = "";

    var inputDate = document.as400samplecode.myDate.value;
    inputDate = inputDate.replace(lre, "");
    document.as400samplecode.myDate.value = inputDate;
    datemsg = isValidDate(inputDate);
    if (datemsg != "") {
        alert(datemsg);
        return;
    }
    else {
        //Now find the Age based on the Birth Date
        getAge(new Date(inputDate));
    }

}
```

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```
function getAge(birth) {

    var today = new Date();
    var nowyear = today.getFullYear();
    var nowmonth = today.getMonth();
    var nowday = today.getDate();

    var birthyear = birth.getFullYear();
    var birthmonth = birth.getMonth();
    var birthday = birth.getDate();

    var age = nowyear - birthyear;
    var age_month = nowmonth - birthmonth;
    var age_day = nowday - birthday;

    if(age_month < 0 || (age_month == 0 && age_day < 0)) {
        age = parseInt(age) -1;
    }
    alert(age);

    if ((age == 18 && age_month <= 0 && age_day <=0) || age < 18) {
    }
    else {
        alert("You have crossed your 18th birthday !");
    }

}
```

```
function isValidDate(dateStr) {

    var msg = "";
    // Checks for the following valid date formats:
    // MM/DD/YY MM/DD/YYYY MM-DD-YY MM-DD-YYYY
    // Also separates date into month, day, and year variables

    // To require a 2 & 4 digit year entry, use this line instead:
    //var datePat = /^(\\d{1,2})(\\|/|\\-)(\\d{1,2})\\2(\\d{2}|\\d{4})$/;
    // To require a 4 digit year entry, use this line instead:
    var datePat = /^(\\d{1,2})(\\|/|\\-)(\\d{1,2})\\2(\\d{4})$/;
```

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```
var matchArray = dateStr.match(datePat); // is the format ok?
if (matchArray == null) {
    msg = "Date is not in a valid format.";
    return msg;
}
```

```
month = matchArray[1]; // parse date into variables
day = matchArray[3];
year = matchArray[4];
```



```
if (month < 1 || month > 12) { // check month range
    msg = "Month must be between 1 and 12.";
    return msg;
}
```

```
if (day < 1 || day > 31) {
    msg = "Day must be between 1 and 31.";
    return msg;
}
```

```
if ((month==4 || month==6 || month==9 || month==11) && day==31) {
    msg = "Month "+month+" doesn't have 31 days!";
    return msg;
}
```

```
if (month == 2) { // check for february 29th
var isleap = (year % 4 == 0 && (year % 100 != 0 || year % 400 == 0));
if (day>29 || (day==29 && !isleap)) {
    msg = "February " + year + " doesn't have " + day + " days!";
    return msg;
}
}
```

```
if (day.charAt(0) == '0') day= day.charAt(1);
```

```
//Incase you need the value in CCYYMMDD format in your server program
//msg = (parseInt(year,10) * 10000) + (parseInt(month,10) * 100) + parseInt(day,10);
```

```
return msg; // date is valid
```

```
}  
  
// --> </SCRIPT>  
  
<form name="as400samplecode">  
Enter Birth Date: <input type="text" name="myDate" size=10 maxlength=10> (in MM/DD/YYYY format)  
<input type="button" value="Find Age" onclick="Javascript:myAgeValidation()">  
</form>  
  
</body>  
  
</html>
```



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