# Date Objects Notes

**Declare and create a new Date Object**

For Date objects, the months and days are represented in memory as follows:

|  |  |
| --- | --- |
| January is represented as 0  February is represented as 1  March is represented as 2  April is represented as 3  May is represented as 4  **.**  **.**  **.**  December is represented as 11 | Sunday is represented as 0  Monday is represented as 1  Tuesday is represented as 2  Wednesday is represented as 3  Thursday is represented as 4  Friday is represented as 5  Saturday is represented as 6 |

Here is an example of how to create a new Date object with variable name *myDate*:

**Example:**

var myDate = **new** Date(“May 20, 2013 14:45:13”) ; notice the quotation marks

Notice the word **new** and Date has a capital D. You could visualize this in memory as the following structure and content:

*myDate*

4 as in May

|  |  |
| --- | --- |
| month | 4 |
| date | 20 |
| year | 2013 |
| hours | 14 |
| minutes | 45 |
| seconds | 13 |
| day | 1 |

Here is an alternate way to create the same new Date object above. Note the commas between the year, month, date (day of month), hours, mins, secs.

1 as in Monday

14 as in 2pm

**Example:**

var myDate = new Date(2013, 4, 20, 14, 45, 13) ;

**Example** – to create current date with variable *now*:

var *now* = new Date() ;

To access (or *get*) each “part” of a Date object with variable name myDate, use the expressions below. myDate is the object variable and getSeconds() is the method.

myDate.getSeconds()

myDate.getMinutes()

myDate.getHours()

myDate.getDate()

myDate.getDay()

myDate.getMonth()

myDate.getFullYear()

myDate.getTime()

Example:

Access the minutes of the object *myDate* and assign it to the variable x:

x = myDate.getMinutes(); (this gets 45 and stores it in x )

To change (*set*) the each “part” of a whole Date object *myDate*, use:

myDate.setSeconds(x)

myDate.setMinutes(x)

myDate.setHours(x)

myDate.setDate(x)

myDate.setDay(x)

myDate.setMonth(x)

myDate.setFullYear(x)

myDate.setTime(x)

Example:

Set the date (day of the month) of the object *myDate* to 7:

myDate.setDate(7); -- This sets the Date (day of the month) to 7.

Now we have a;

|  |  |
| --- | --- |
| month | 4 |
| date | ~~20~~ 7 |
| year | 2013 |
| hours | 14 |
| minutes | 45 |
| seconds | 13 |
| day | 1 |

Now print out the date and the year to the web page:

mdate = myDate.getMonth();

xdate = myDate.getDate();

ydate = myDate.getFullYear();

document.write( (mdate + 1) + “/” + xdate + “/” + ydate);

This displays:

