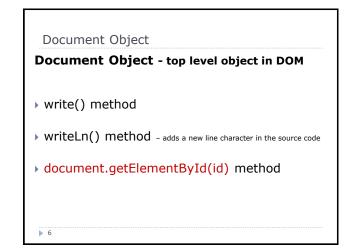


```
Window Object
parseInt() global function

var x = '10';
x = parseInt(x); // returns a whole number 10

parseFloat() global function

var y = '0.5';
y = parseFloat(y); // returns a decimal number .5
```



Objects

Document Object Model

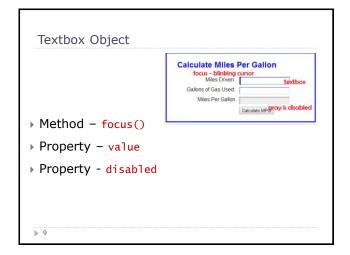
Allows access to any HTML element by making an object reference using the value of the 'id' attribute

Ocument.getElementById(id) method

Textbox Object

<label for="fname">First name</label>
<input type="text" id="fname" name="fname">

First name Teresa



```
Textbox Object - retrieve the value

<label for="fname">First name</label>
<input type="text" id="fname" name="fname">

First name Teresa

var firstName = document.getElementById("fname");
firstName = firstName.value;
alert(firstName); // displays Teresa

10
```

```
Textbox Object - retrieve the value (Chaining)

<label for="fname">First name</label>
<input type="text" id="fname" name="fname">

First name Teresa

var firstName = document.getElementById("fname").value;
alert(firstName); // displays Teresa
```

```
Textbox - always returns a string value

<label for="ricecost">Rice cost:</label>
<input type="text" id="riceCost" name="riceCost">

Rice cost: §12.34

var riceCost = document.getElementById("riceCost").value;
// value of riceCost is "$12.34" (text)

var iRiceCost = parseInt(riceCost); // value is NaN
var fRiceCost = parseFloat(riceCost); // value is NaN

15
```

```
isNaN() - JS global function
isNaN(123)
                   //false
isNaN(-1.23)
                   //false
isNaN(5-2)
                   //false
isnan(0)
                   //false
isNaN('123')
                   //false
isNaN('Hello')
                   //true
isNaN('2005/12/12') //true
isNaN('')
                   //false
isNaN(true)
                   //false
isNaN(undefined)
                   //true
isNaN('NaN')
                   //true
isnan(NaN)
                   //true
isnan(0 / 0)
                   //true
▶ 17
```

```
Empty textbox
empty
A textbox without any user entered value returns ""
It is empty - it is not null

To validate that the user entered a value
if(txtvariablevalue == ""){
    // returns true or false
}
```



```
Undefined vs empty vs null in JavaScript
null
In JavaScript null is "nothing". It is supposed to be something that doesn't exist.
Unfortunately, in JavaScript, the data type of null is an object.

You can consider it a bug in JavaScript that typeof null is an object. It should be null. this is a bug which may be fixed at some point.

Therefore: do not use null when comparing variable values!
```

```
Validate textbox contains a number

empty
A textbox without any user entered value returns ""

It is empty - it is not null

To validate that the user entered a value

if(txtvariablevalue == ""){
// returns true or false
}
```

```
Validate textbox contains a number

NaN
A textbox with an invalid number returns "NaN"

isNaN() - global function
- will return true if not a valid number

To validate that the user entered a value

if(isNaN(txtvariablevalue)){
// returns true or false
}
```

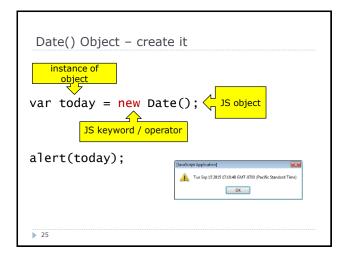
```
Date Object

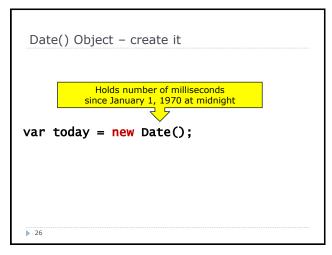
Date() - uppercase "D"

Returns: day, number, month, year, hour, minutes, seconds, milliseconds

to retrieve, set, perform calculations - EBAY / Bb
```

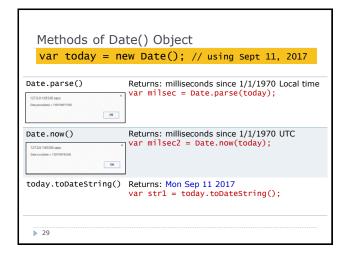
Date Object Begins January 1, 1970 at midnight epoch or Unix epoch 86,400,000 milliseconds in one day

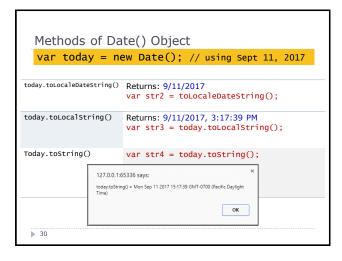




Methods of Date() Object	
var	<pre>today = new Date();</pre>
today.getDate()	Returns the day number of the month (1 - 31) var monthDay = today.getDate();
today.getDay()	Returns an integer for the day of the week Sunday = 0, Monday = 1, Saturday = 6 var day0fweek = today.getDay();
today.getMonth()	Returns an integer for the month January = 0, December = 11 var month = today.getMonth();
today.getFullYear()	<pre>Returns the year as 4 digits var fullYear = today.getFullYear();</pre>
today.getYear()	Returns the year as 2 digits var year = today.getYear();

var	today = new Date();
today.getTime()	Returns milliseconds since midnight 1/1/1970 var time = today.getTime();
today.getHours()	Returns the current hour, 0 to 23, universal time var currentHour = today.getHours();
today.getMinutes()	Returns the current minute, 0 to 59 var currentMinute = today.getMinutes();
<pre>today.getSeconds()</pre>	Returns the current second, 0 to 59 var currentSecond = today.getSeconds();
<pre>today.getMilliseconds()</pre>	Returns the current millisecond, 0 to 999 var currentMilliseconds = today.getMilliseconds();





```
String Object
Object is automatically created when you assign a string value to a variable

var name = "Teresa";

Property
I length - name.length; // 6
```

```
String Object

var name = "Teresa";

Methods

toUpperCase(), toLowerCase() - name.toUpperCase; // TERESA

Character in the string

indexOf() - name.indexOf("T"); // 0

Starting point, number characters

substr() - name.substr(0, 3); // Ter

Begin, end

substring() - name.substring(0, 6); // Teresa
```

```
Function

Block of code

that we can reuse

Makes writing code cleaner

Executes when you call it

Called when an event occurs

Page load

Click
```

```
Function - named

function sayHello() {
    alert("Hello");
}

sayHello();

How the function is called - usually from another function

| SayHello(); | Compare the function of the function o
```

```
Function - called from an event

window.onload = function() {

sayHello();

What we have used event happens

**Proposition**

**Proposition**
```