

Lesson Objectives



- To understand the following topics:
 Form Object Properties, Methods & Event HandlersText-Related ObjectsButton ObjectsCheck Box and Radio ObjectsSelect Objects



7.1: Form Object Properties, Methods and Event Handlers Form Object



Properties	Methods	Event Handlers
action	reset()	onReset
elements[]	submit()	onSubmit
enctype		
length		
method		
name		
target		

Working with Form Objects: Form Object Properties:

A form element provides the only way that users can enter textual information or make a selection from a predetermined set of choices, whether those choices appear in the form of an on/off checkbox, one of a set of mutually exclusive radio buttons, or a selection from a list.

Property/ Method/ Events	Description
action	This property is the same as the value you assign to the ACTION attribute of a <form> tag. The value is typically a URL on the server where queries or postings are sent for submission.</form>
elements[]	Returns an array of elements. It includes all the user interface elements defined for a form: text fields, buttons, radio buttons, checkboxes, selection lists, and more.
encoding	You can define a form to alert a server that the data being submitted is in a MIME type. This property reflects the setting of the ENCTYPE attribute in the form definition. The default value is an empty string.
method	A form's method property is either the GET or POST values assigned to the METHOD attribute in a <form> tag.</form>

7.2: Text-Related Objects Text-Related Objects	
Text	
Password	Enter name Tom
TextArea	Enter Haire V - W
Hidden Objects	Enter Password
	Enter Address Everest Apartments

Text-Related Objects:

<u>Text Objects</u>: The text object is the primary medium for capturing userentered text.

<u>Password Object:</u> A password-style field looks like a text object, but when the user types something into the field, only asterisks or bullets (depending on your operating system) appears in the field.

<u>Textarea Object:</u> A textarea object closely resembles a text object, except for attributes that define its physical appearance on the page.

<u>Hidden object</u>: A hidden object is a simple string holder within a form object whose contents are not visible to the user of your Web page. With no methods or event handlers, the hidden object's value to your scripting is as a delivery vehicle for strings that your scripts need for reference values or other hard-wired data.

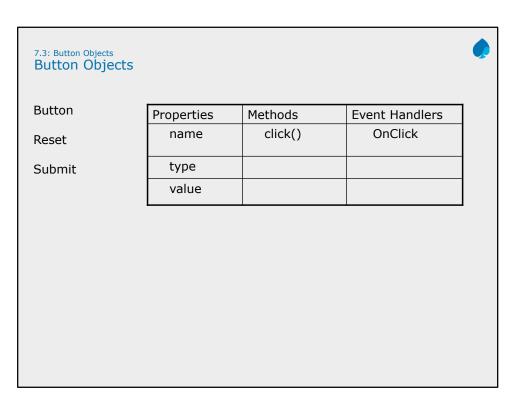
7.2: Text-Related Objects
Text-Related Objects (Contd..)



Properties	Methods	Event Handlers
defaultValue	blur()	OnBlur
name	focus()	OnChange
type	select()	OnFocus
value		

The properties, methods and event handlers are same for text object, text area and Password. For hidden object the properties are same but no methods and event handlers are associated with this object.

Property/ Events/ Methods	Description
defaultValue	Specifies or returns a defaultValue for a text related objects.
name	This property can be used to reference the text object in the script.
type	Returns the type of text related object
value	A reference to an object's value property returns the string currently displayed in the field.



Button Objects: Button, Submit and Reset

Property	Description
name	You may need to retrieve this property in a general- purpose function handler called by multiple buttons in a document. The function can test for a button name and perform the necessary statements for that button.
type	The precise value of the type property echoes the setting of the TYPE attribute of the <input/> tag that defined the object: button; submit; or reset.
value	A button's visible label is determined by the VALUE property.
click()	A button's click() method should replicate, via scripting, the human action of clicking that button.
onClick	Virtually all button action takes place in response to the onClick event handler. A click is defined as a press and release of the mouse button while the screen pointer rests atop the button.

7.4: Check Box and Radio Objects

Checkbox Radio

Properties Methods Event Handlers

Checked click() OnClick

defaultChecked

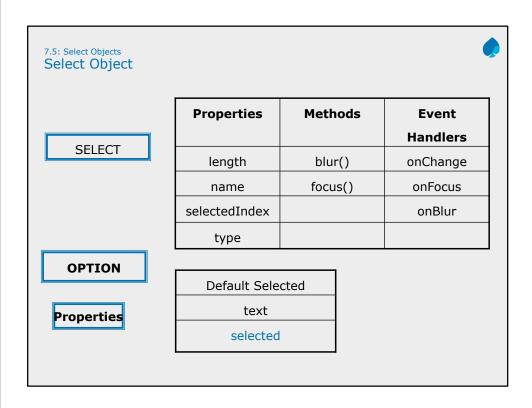
name

type

value

Checkbox object:

Property/ Events/ Methods	Description
checked	The simplest property of a checkbox gets or lets you set whether or not a checkbox is checked. The value is true for a checked box and false for an unchecked box. Only one radio button in a group can be highlighted checked) at a time. That one button's checked property is set to true, whereas all others in the group are set to false.
defaultCh ecked	If you add the CHECKED attribute to the <input/> definition for a checkbox or radio button, the defaultChecked property for that object is true; otherwise, false.
name	The name property allows user to access name for the checkbox or radio button through script.
type	Use the type property to help you identify a checkbox object or a radio button object from an unknown group of form elements.



Property/ Methods/ Events	Description
length	Returns the number of items available in the list. A select object with three choices in it has a length property of 3.
Name	A select object's name property is the string you assign to the object by way of its NAME attribute in the object's <select> tag which can be</select>
selectedIndex	When a user clicks on a choice in a selection list, the selectedIndex property changes to a number corresponding to that item in the list.
type	Use the type property to help you identify a select object from an unknown group of form elements.
blur() focus()	Your scripts can bring focus to a select object by invoking the object's focus() method. To remove focus from an object, invoke its blur() method. These methods work identically with their counterparts in the text object.
onChange	As a user clicks on a new choice in a select object, the object receives a change event that can be captured by the onChange event handler.

Using 'this' keyword

The 'this' keyword can be used to reference the object which called the function. It can be used within a function scope or global scope and it receives a different value in each scope. Depending on which object has called the function the value of 'this' will differ. The 'this' keyword always points to the object that is calling a particular method.

Consider the example given below:

The 'this' keyword is used in the showColor() function of an object. In this context, this is equal to car, making this code functionality equivalent to the following code snippet

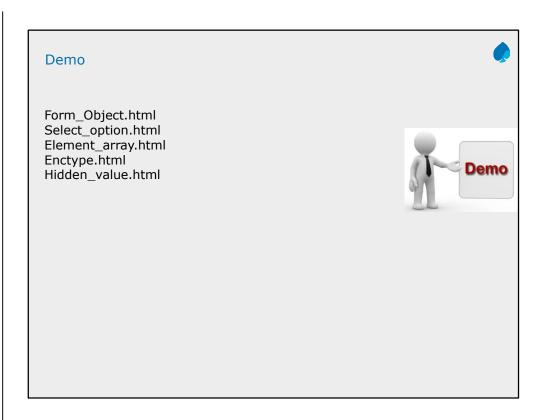
```
var oCar = new Object;
oCar.color = "red";
oCar.showColor = function () {
    alert(this.color); //outputs "red"
};
```

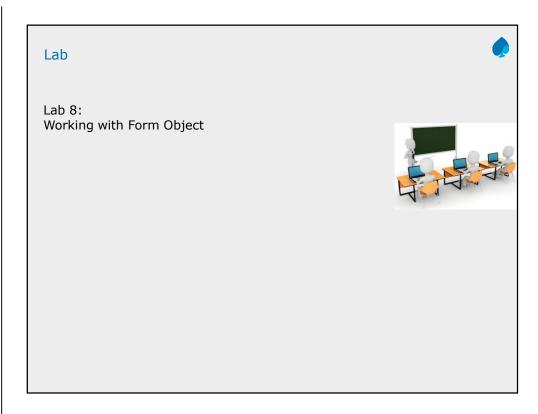
So the reason for using 'this' is you never know what kind of variable names you will use to instantiate an object. By using 'this' you are sure to invoke the correct function with the correct value. Also it allows you to use the same function any number of times. To understand this consider the following code:

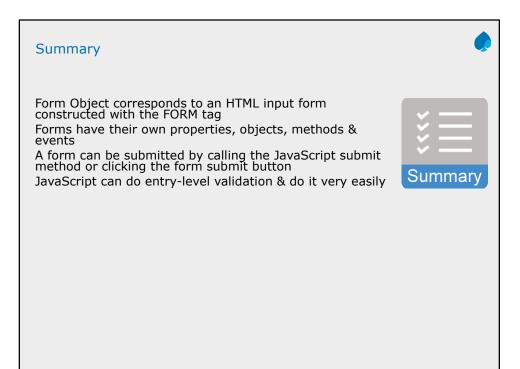
```
var oCar = new Object;
oCar.color = "red";
oCar.showColor = function () {
    alert(oCar.color); //outputs "red"
};
```

In the above snippet both oCar1 and oCar2 refer to the same function. The function gives the output according to the object which called the function.

```
function showColor() {
    alert(this.color);
}
var oCar1 = new Object;
oCar1.color = "red";
oCar1.showColor = showColor;
var oCar2 = new Object;
oCar2.color = "blue";
oCar2.showColor = showColor;
oCar2.showColor(); //outputs "red"
oCar2.showColor(); //outputs "blue"
```







Summary

This module provided an understanding of:

Form object and its components.

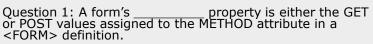
How to create form objects.

How to handle events.

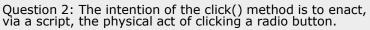
How to validate data.

How to submit a form.

Review Questions



- Option 1: Method
- Option 2: Class
- Option 3: Object



True / False

Question 3: A button's _____method should replicate, via scripting, the human action of clicking that button.

