

Antwoorden Applied JavaScript 2

Vraag 1 van 29

In JavaScript, what is the purpose of the form object?

- A. To enclose the HTML <form> tags.
- B. To represent all the forms in a single website.
- C. To access all properties of a form.
- D. To replace the HTML <form> tags.

Antwoordtoets: C

Feedback:

The **form** object represents an HTML form in JavaScript. This object is used to access all properties of the form, most importantly, the elements that compose the form.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 2 van 29

Which property is NOT supported by the hidden object?

- A. type
- B. value
- C. name
- D. autofocus

Antwoordtoets: D

Feedback:

The **hidden** object adds a hidden element in a form that can't be seen or modified by users when submitting the form. It supports the following properties:

form: specifies the form containing the **hidden** object

name: reflects the **name** attribute

type: reflects the **type** attribute

value: reflects the current value of the **hidden** object.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 3 van 29

Which event handler of the select object specifies the JavaScript code to execute when a user moves the cursor to the select list?

- A. onsubmit
- B. onblur
- C. onchange
- D. onfocus

Antwoordtoets: D

Feedback:

The **onfocus** event handler of the **select** object specifies the JavaScript code to execute when a user moves the cursor to the **select** list.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 4 van 29

Which JavaScript event handler is triggered when a user clicks the mouse button outside of a particular field after typing input there?

- A. onblur
- B. onclick
- C. onfocus
- D. onmouseout

Antwoordtoets: A

Feedback:

The **onblur** event handler is triggered when the input focus is removed from the **form** element. So, when a user clicks the mouse button outside of a particular field after typing input there, the **onblur** event will be triggered.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 5 van 29

Consider the following code using a checkbox object:

```
<html>
<head>
  <title>Check Box Confirm</title>
  <script type="text/javascript">
    function confirmBox() {
      if (document.forms[1].checkThis.checked) {
        alert("The box is checked.");
      } else {
        alert("The box is not checked at the
moment.");
      }
    }
  </script>
</head>
<body>
  <form>
    <input checked="checked" z-index="1" type="checkbox"
name="checkThis" /> Select the check box
    <br/>
    <input type="button" value="Confirm Box"
onclick="confirmBox()" />
  </form>
</body>
</html>
```

What will happen when the Confirm Box button is clicked?

- A. Depending on a user action, one of the two alert boxes will display.
- B. An error will return because the wrong form is identified in the **if** statement.
- C. Regardless of a user action, the alert box that says "The box is checked" will display due to a coding error.
- D. Regardless of a user action, the alert box that says "The box is not checked at the moment" will display due to a coding error.

Antwoordtoets: B

Feedback:

The wrong form is identified in the **if** statement, and therefore this script will return an error. There is only one form in the document, which requires the array index of 0, not 1.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 6 van 29

Which of the following statements is true of the hidden form element?

- A. It is visible to a user only when the submit button is clicked.
- B. The value of the hidden element cannot be changed even with browser developer tools.
- C. The value of the hidden element is submitted with the form which is unseen to a user.
- D. The value of the hidden element can be changed directly from the rendered page.

Antwoordtoets: C

Feedback:

The **hidden** element remains unseen to a user on a webpage and while submitting the form. Since it cannot be seen, its value remains unchanged by the user. Although the user can still change the value of a hidden field through the use of browser developer tools.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 7 van 29

Which two objects are NOT supported on the Safari browser?

- A. color and email
- B. color and URL
- C. email and URL
- D. email and search

Antwoordtoets: C

Feedback:

The Safari browser doesn't support the email and URL objects. The Internet Explorer browser does not support the **color** object.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 8 van 29

Which property of the form object returns the number of elements in the form?

- A. length
- B. elements
- C. encoding
- D. target

Antwoordtoets: A

Feedback:

The **length** property of the **form** object returns the number of elements in the form because each form element has a **name** and a **value** property. These properties are used in each run of the **for** loop to return the appropriate information for each form element.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 9 van 29

Which form event handler executes the specified code when the value of an element is modified from the default?

- A. onfocus
- B. onchange
- C. onmodify
- D. onsubmit

Antwoordtoets: B

Feedback:

The **onchange** event handler is used to specify the code to execute when the value of the **form** element is modified from its default value.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 10 van 29

Which event is triggered on the <select> element when the selection is modified?

- A. onblur
- B. onchange
- C. onfocus
- D. onselect

Antwoordtoets: B

Feedback:

The **onchange** event is triggered when a user changes the selection from the default to any other value from the selection list. The event is triggered when the object loses its focus after a selection is made.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 11 van 29

Consider the following select list:

```
<select id="numlist">
    <option value="a">Alpha</option>
    <option value="b">Beta</option>
    <option value="c">Charlie</option>
    <option value="d">Delta</option>
</select>
```

Which of the following will select the third option in the list?

- A `document.getElementById("numlist").options[2].selectedIndex`
`. ex();`
- B `document.getElementById("numlist").options.selectedIndex`
`= 2;`
- C `document.getElementById("numlist").selected = 3;`
`.`
- D `document.getElementById("numlist")[3].selected(true);`
`.`

Antwoordtoets: B

Feedback:

The correct syntax is **document.getElementById("numlist").options.selectedIndex = 2;**. An option can only be selected by using the **selectedIndex** property on an element from the options array. The **selectedIndex** property specifies or returns an integer value of the array number of the selected option. The correct syntax for the **selectedIndex** property is shown in option B, whereas option A uses it incorrectly as a method [**selectedIndex()**]. The **selected** property is used with other field types but not the **select** object. It would specify or return a Boolean value determined by whether the option represented is selected, but will not select the option.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 12 van 29

Which of the following will you add to the regular expression that allows the matching of the letters in postal codes?

- A. \w
- B. \W
- C. \s
- D. \S

Antwoordtoets: A

Feedback:

The symbol **\w** will be added to the regular expression that allows the matching of the letters in postal code. Because this symbol will match any alphanumeric character.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 13 van 29

Which of the following adds a color picker on a webpage and specifies the default color as red?

- A. <input type="color" value="red" />
- B. <input type="picker" value="red" />
- C. <input type="color" default="red" />
- D. <input type="picker" default="red" />

Antwoordtoets: A

Feedback:

The input type **color** lets users pick a color from a color picker on a webpage. The **value** property is used to specify the default color for the color picker.

```
<input type="color" value="default_color" />
```

Users can also specify color values in hex.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 14 van 29

Which property is used to control the granularity of the range input type?

- A. value
- B. max
- C. range
- D. step

Antwoordtoets: D

Feedback:

The **step** property of the **range** input type controls the granularity or the interval between each acceptable values. For example, for the **range** input type, with the **min** and **max** values are 0 and 100 with step (interval) 20, the acceptable input values will be 0, 20, 40, ..., 100.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 15 van 29

Which of the following input types masks the value entered by users?

- A. text
- B. email
- C. url
- D. password

Antwoordtoets: D

Feedback:

The **<input type="password">** field masks the user's input and displays symbols instead of the value entered by a user. This is done to prevent any eavesdropper from reading confidential information being entered by a user.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 16 van 29

Consider the following code:

```
<html>
  <head>
  </head>
  <body>
    <p>What's your favorite color?</p>
    <form name="myForm">
      <input type="radio" name="rdoGroup1" id="opt1"
value="Red"/>Red<br/>
      <input type="radio" name="rdoGroup1" id="opt2"
value="Orange"/>Orange<br/>
      <input type="radio" name="rdoGroup1" id="opt3"
value="Purple"/>Purple<br/>
    </body>
  </html>
```

Which of the following methods could be used to change the value of the first radio button?

- A. `document.rdoGroup1.value = "Green"`
- B. `document.myForm.rdoGroup1[0].value = "Green"`
- C. `document.getElementById(rdoGroup1).value = "Green"`
- D. `document.getElementById("rdoGroup1").value = "Green"`

Antwoordtoets: B

Feedback:

The correct method to change the value of the first radio button is **`document.myForm.rdoGroup1[0].value = "Green"`**. The use of **`document.rdoGroup1.value`** is invalid because there is more than one element with that name. The use of **`document.getElementById(rdoGroup1).value`** is invalid because it is referencing the name of the radio group set and not the ID of an individual item. The use of **`document.getElementById(rdoGroup1).value`** is also invalid because it refers to a variable that has not been declared in the code.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 17 van 29

Which example shows proper JavaScript syntax for referring to a form object named newForm having a text box named fieldName?

- A. document.newForm.fieldName.value;
- B. window.newForm.fieldName.value;
- C. form.newForm.fieldName."value"
- D. document.newForm[fieldName].value;

Antwoordtoets: A

Feedback:

The **document** interface is the first element that will help to refer the **form** element through both the form name and the element name, the **form** object is subordinate to the **document** object in the JavaScript object hierarchy. So, the correct syntax is:

```
document.newForm.fieldName.value;
```

(Bron: <https://www.ciwcertified.com/>.)

Vraag 18 van 29

Consider the following HTML form:

```
<form id="f1">
    <input type="text" value="Enter name" />
    <select id="brand">
        <option value="">Please select a brand</option>
        <option value="true">BMW</option>
        <option value="Audi">Audi</option>
    </select>
    <input type="submit" />
</form>
```

Which of the following expressions will make sure that a user enters a value in the text field before submitting the form?

- A. document.forms[0].elements[0].value = required;
- B. document.forms[0].elements[0].checkValidity = true;
- C. document.forms[0].elements[0].required = true;
- D. document.forms[0].elements[0].name = required;

Antwoordtoets: C

Feedback:

The **document.forms[0].elements[0].required = true;** expression adds the **required** property to the **<input>** element in the form, which makes sure that a value is entered in the input field before the form can be submitted.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 19 van 29

Which event handler of the **select** object specifies the JavaScript code to execute when the **select** object loses focus after a user makes a selection, but only if the user selects an option other than the default?

- A. onblur
- B. onclick
- C. onfocus
- D. onchange

Antwoordtoets: D

Feedback:

The **onchange** event handler specifies the JavaScript code to execute when the object loses focus after a user makes a selection, although the **change** event occurs only if the user changes the selection from the default.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 20 van 29

Which property of the form object returns the number of elements in a form?

- A. size
- B. count
- C. length
- D. elements

Antwoordtoets: C

Feedback:

The **form.length** property returns the number of elements in a **form**.
The **elements** property returns an array of all the **form** elements.
The **count** and **size** are invalid options in context to the form elements.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 21 van 29

Which of the following protocols is used to protect the user data during transmission?

- A. SSL
- B. SSH
- C. IPsec
- D. HTTPS

Antwoordtoets: A

Feedback:

Secure Sockets Layer (SSL) based transmission makes sure that the data sent between the client and the server is encrypted during transmission, and is not easily eavesdropped by a third party. SSL also prevents the data from being transmitted between the end user and the server from being tampered with or changed.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 22 van 29

Which of the following is a disadvantage of client-side form validation?

- A. Validating forms on the client's machine increases the network load.
- B. Users can change JavaScript that validates the form input using browser tools.
- C. Validity of submitted forms decreases.
- D. Users receive feedback on incorrect input only after the form is submitted.

Antwoordtoets: B

Feedback:

Any experienced user with the knowledge of JavaScript can bypass the validation rules specified in the script by directly changing the JavaScript code and submit the form with invalid information. JavaScript is fast and does not put any extra load on the client's machine as long as the validation process is not too complex. Since the validation takes place on the client's browser, there is not much requirement of communicating with the server before form submission, which will not increase the network load.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 23 van 29

Consider the following HTML form:

```
<form id="f1">
    <select id="brand" disabled>
        <option value="">Please select a brand</option>
        <option value="true">BMW</option>
        <option value="Audi">Audi</option>
    </select>
</form>
```

Which of the following expressions will allow a user to interact with the select statement?

- A. `document.forms[0].elements[0].disabled = false;`
- B. `document.forms[0].elements[0].hidden = false;`
- C. `document.forms[0].elements[0].enabled = true;`
- D. `document.forms[0].elements[0].canEdit = true;`

Antwoordtoets: A

Feedback:

The **<select>** input field is currently disabled using the **disabled** property. This property can be modified using JavaScript. The expression,

```
document.forms[0].elements[0].disabled = false;
```

identifies the form element and sets its **disabled** property to false.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 24 van 29

Which form object will you use to mask the value entered by a user (i.e., hide the actual value of the input)?

- A. `hidden`
- B. `disabled`
- C. `text`
- D. `password`

Antwoordtoets: D

Feedback:

The **password** element is suitable to hide the actual value of the input, because any input in a **password** type field is masked in symbols.

Incorrect: The **hidden** object is invisible to a user, and hence the user will be unable to enter any value in the field.

Incorrect: The **disabled** input type cannot be interacted with.

Incorrect: The **text** input type does not mask the input and shows it as entered.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 25 van 29

Which attribute of the file object is used to define the types of files to be uploaded?

- A. accept
- B. file
- C. type
- D. filetype

Antwoordtoets: A

Feedback:

The **accept** property of the **file** object (**input type="file"**) is used to set or return the types of files that will be accepted for upload.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 26 van 29

Which of the following should be done while adding validation to a form?

- A. Test the form validation on a single browser.
- B. Test multiple fields in one validation.
- C. Alert messages should be discursive.
- D. Validations should not override each other.

Antwoordtoets: D

Feedback:

Alert messages should be clear and concise.

To avoid confusion, do not test multiple fields in one validation.

Check carefully that the validations do not override each other, making it nearly or completely impossible for the form to validate properly.

Always test your form validations in several browsers.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 27 van 29

Consider the following code:

```
<form action="#" name="myForm" method="get">
    <input type="text" value="Type here"
name="firstvalue"/>
    <button
onclick="document.myForm.elements[1].disabled=true;
return false;">Surprise!</button>
</form>
```

What is the expected result of clicking the button?

- A. Nothing will change.
- B. The form will disable itself.
- C. The button will become unresponsive.
- D. The text field will become unresponsive.

Antwoordtoets: C

Feedback:

This code is calling on the second element of the form, which is the button named **Surprise!**. Setting the **disabled** property to **true** causes this button to ignore any user input.

(Bron: <https://www.ciwcertified.com/>.)

Vraag 28 van 29

Consider the following HTML block:

```
<select id="car">
    <option value="">Please select a brand</option>
    <option value="BMW">BMW</option>
    <option value="Audi">Audi</option>
    <option value="Porsche">Porsche</option>
</select>
```

Which of the following expressions will change the selected index to 2?

- A. brand.options[2]= true;
- B. brand.options[2].value = true;
- C. brand.options[2].checked = true;
- D. brand.options[2].selected = true;

Antwoordtoets: D

Feedback:

The following expressions can be used to change the selected index to 2:

```
brand.options[2].selected = true;  
    brand.selectedIndex = 2;  
    brand.value = 'Audi';
```

(Bron: <https://www.ciwcertified.com/>.)

Vraag 29 van 29

Which method can be used to increase option elements in the **select** object?

- A. item()
- B. option()
- C. value()
- D. add()

Antwoordtoets: D

Feedback:

The **add()** method can be used to append elements to the **select** object in the **options** collection.

(Bron: <https://www.ciwcertified.com/>.)