

Antwoorden Essential JavaScript Principles and Practices 1

Vraag 1 van 22

Which of the following statements is NOT true of JavaScript?

- A. JavaScript is only a client-side scripting language.
- B. JavaScript is case-sensitive.
- C. JavaScript is event-driven.
- D. JavaScript is platform-independent.

Antwoordtoets: A

Feedback:

JavaScript is not limited to client-side scripting. Node.js is one example, which provides JavaScript the capability to write server-side scripts. (Bron: <https://www.ciwcertified.com/>.)

Vraag 2 van 22

Which of the following statements distinguishes a programming language from a scripting language?

- A. Programming languages are compiled, whereas scripting languages are interpreted.
- B. Programming languages are developed by private organizations, whereas scripting languages are open-source.
- C. Programming languages are object-based, whereas scripting languages are object-oriented.
- D. Programming languages are subsets of scripting languages and are interpreted.

Antwoordtoets: A

Feedback:

A scripting language is a simple programming language that is designed to enable computer users to write useful programs easily. Scripting languages are subsets of larger complicated programming languages. Programming languages are compiled, whereas scripting languages are interpreted at runtime, meaning that they are not compiled to any particular machine or operating system. This feature makes them platform-independent. (Bron: <https://www.ciwcertified.com/>.)

Vraag 3 van 22

Consider the following code:

```
<html>
<head>
</head>
<noscript>This page requires JavaScript for full functionality
<script type="text/javascript">
    function fn() {
        alert("HI");
    }
</script>
</noscript>
<button value="Test" onclick="fn();">Test</button>
</body>
</html>
```

Linda just learned about the **<noscript>** tag and has decided to test it in this simple script. When she runs this script in her browser and clicks on the 'Test' button, no action is being performed. What mistake has she made?

- A. The script was not written in the `<head>` section of the webpage.
- B. The script was written inside the `<noscript>` tag.
- C. The script was not enclosed in the comments.
- D. JavaScript can only be run from external files.

Antwoordtoets: B

Feedback:

The `<noscript>` tag is used to render content for users who have JavaScript disabled in their browsers. In this case, the content inside the `<noscript>` `</noscript>` tag is displayed on the page. The output also shows that either JavaScript is disabled in the user's browser or it is not supported at all. (Bron: <https://www.ciwcertified.com/>.)

Vraag 4 van 22

Which of the following companies originally developed JavaScript?

- A. Netscape Communications.
- B. Sun Microsystems.
- C. Microsoft Corporation.
- D. World Wide Web Consortium (W3C).

Antwoordtoets: A

Feedback:

Netscape Communications originally developed JavaScript (Bron: <https://www.ciwcertified.com/>.)

Vraag 5 van 22

Which of the following technologies is NOT based on JavaScript?

- A. JAVA.
- B. React.
- C. jQuery.
- D. ECMAScript.

Antwoordtoets: A

Feedback:

JAVA is a separate, full-fledged, object-oriented programming language. It was developed by Sun Microsystems. It can be used to create standalone applications. React, jQuery, and ECMAScript are all JavaScript-based technologies. (Bron: <https://www.ciwcertified.com/>.)

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Which of the following statements is NOT true of jQuery?

- A. It eliminates cross-browser incompatibilities.
- B. It focuses on server-side scripting.
- C. It simplifies the syntax of DOM manipulation.
- D. It is open-source.

Antwoordtoets: B

Feedback:

jQuery was designed to focus on client-side scripting. It is an open-source JavaScript library released under the MIT license. It simplifies the syntax of DOM manipulation and eliminates cross-browser incompatibilities. (Bron: <https://www.ciwcertified.com/>.)

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What was server-side JavaScript (SSJS) originally called?

- A. Perl.
- B. AJAX.
- C. JScript.
- D. LiveWire.

Antwoordtoets: D

Feedback:

Server-side JavaScript (SSJS) is JavaScript's server-side scripting environment. It allows connection to databases and supports many of the rich features and functions of any server-side scripting language. Originally created for Netscape Enterprise Server and called LiveWire, SSJS is the next generation of the server-side JavaScript language. (Bron: <https://www.ciwcertified.com/>.)

Vraag 8 van 22

Which of the following languages is NOT a scripting language?

- A. jQuery.
- B. Perl.
- C. JAVA.
- D. PHP.

Antwoordtoets: C

Feedback:

JAVA is a full-fledged programming language that can be used to develop standalone applications. Perl, JavaScript, jQuery and PHP, on the other hand, are scripting languages. (Bron: <https://www.ciwcertified.com/>.)

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Which of the following statements is true of JavaScript?

- A. JavaScript is now called JScript because of trademark issues with using the name Java.
- B. LiveScript is the standardized ECMA specification of JavaScript.
- C. JavaScript and Java are unrelated, the similarity in names is just a marketing tactic.
- D. Mocha is another flavor of JavaScript.

Antwoordtoets: C

Feedback:

JavaScript and Java are unrelated languages that have very little in common. The name JavaScript was used as a marketing tactic to capitalize on the fame of Java. JavaScript itself was standardized by ECMA (European Computer Manufacturer's Association) in 1997. JavaScript was called Mocha in its development phase, it is not a separate flavor of Java. (Bron: <https://www.ciwcertified.com/>)

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Which of the following is used to add multiline comments in JavaScript?

- A. `/* */`
- B. `/`
- C. `<!-- ... -->`

Antwoordtoets: A

Feedback:

The `/*` symbols mark the starting of a multiline comment block, and the `*/` symbols mark its end. The code written inside this block is not interpreted by the interpreter. (Bron: <https://www.ciwcertified.com/>)

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Why should comments be included within JavaScript code blocks?

- A. Because comments provide a way to indicate the intent of the code.
- B. Because comments are required for each JavaScript code block.
- C. Because comments provide accessibility in browsers for the visually impaired.
- D. Because comments deactivate all JavaScript code during debugging.

Antwoordtoets: A

Feedback:

Programmers place comments in their code to help remind them of the purpose and function for each major section of code. Comments provide a way to indicate the intent of the code. Comments are not required but can be useful for making notes to explain code, or to temporarily disable one or more lines of code during debugging. (Bron: <https://www.ciwcertified.com/>)

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Which technology is NOT a server-side scripting environment?

- A. jQuery.
- B. PHP.
- C. Node.js.
- D. SSJS.

Antwoordtoets: A

Feedback:

jQuery was designed while keeping in mind the client-side scripting of JavaScript. It was designed to reduce cross-browser incompatibilities and simple DOM (Document Object Model) manipulation. (Bron: <https://www.ciwcertified.com/>.)

Vraag 13 van 22

What makes a scripting language different from a programming language?

- A. Scripting languages are web-based, while programming languages are not.
- B. Scripting languages are interpreted, while programming languages are compiled.
- C. Scripting languages are based on UNIX, while programming languages are based on Window.
- D. Scripting languages are based on Windows, while programming languages are based on UNIX.

Antwoordtoets: B

Feedback:

A scripting language is a simple programming language designed to enable computer users to write useful programs easily. Scripting languages are subsets of larger, more complicated programming languages. Programming languages are compiled, whereas scripting languages are interpreted at runtime, meaning that they are not compiled to any particular machine or operating system. This feature makes them platform-independent. (Bron: <https://www.ciwcertified.com/>.)

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Which of the following technologies enables server-side scripting using JavaScript?

- A. Java.
- B. React.
- C. Node.js.
- D. C++.

Antwoordtoets: C

Feedback:

Node.js is a JavaScript runtime environment that provides JavaScript the capability to be used for the server-side environment. JavaScript's server-side environment enables to connect webpages to databases, enables server-side image maps and saves client state so the computer will remember where the client is during a multi-page process. (Bron: <https://www.ciwcertified.com/>.)

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Which JavaScript 'flavor' attempts to diminish the differences between other JavaScript flavors and standardize the language?

- A. JScript.
- B. VBScript.
- C. JavaScript.
- D. ECMAScript.

Antwoordtoets: D

Feedback:

The ECMA flavor intends to diminish the differences between the JavaScript and JScript flavors. ECMA attempted to promote this standard as 'ECMAScript', but the name did not gain widespread popularity. (Bron: <https://www.ciwcertified.com/>.)

Vraag 16 van 22

Which of the following is NOT a feature of JavaScript?

- A. Platform-independent.
- B. Case-sensitive.
- C. Compiled language.
- D. Object-oriented.

Antwoordtoets: C

Feedback:

JavaScript is a scripting language. Its code is interpreted by the browsers. JavaScript is also platform-independent and its code is case-sensitive. With the implementation of classes in JavaScript, it's now object-oriented as well. (Bron: <https://www.ciwcertified.com/>.)

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What type of a language is HTML?

- A. Markup language.
- B. Scripting language.
- C. Programming language.
- D. Semantic language.

Antwoordtoets: A

Feedback:

When the world wide web first became popular, Hypertext Markup Language (HTML) was the only language which an author could use to create webpages. HTML is not a programming language, but rather a markup language used to format webpages. (Bron: <https://www.ciwcertified.com/>.)

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What is Microsoft's implementation of JavaScript called?

- A. JScript.
- B. JavaScript.
- C. ECMAScript.
- D. MScript.

Antwoordtoets: A

Feedback:

Microsoft developed a similar scripting language called JScript, which is implemented exclusively in Internet Explorer. The JScript flavor of JavaScript has extended functionality that is not available in classic JavaScript. For this reason and others, testing JavaScript code in multiple browsers is necessary. (Bron: <https://www.ciwcertified.com/>.)

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Which of the following terms identifies the attributes that define the characteristics of an object?

- A. Value.
- B. Method.
- C. Function.
- D. Property.

Antwoordtoets: D

Feedback:

In programming, objects encapsulate pre-designated attributes and behavior. They are often grouped with similar objects into classes. Like real-life objects, JavaScript objects have certain attributes and behaviors. Programmers refer these to attributes and behavior associated with an object as properties, which defines the object's characteristics, such as height, color, font, size, sentence length, and so forth. (Bron: <https://www.ciwcertified.com/>.)

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Which of the following languages has JavaScript least in common with?

- A. Mocha.
- B. JScript.
- C. ECMAScript.
- D. VBScript.

Antwoordtoets: D

Feedback:

VBScript is based on the full programming language, Visual Basic. It was developed by Microsoft. Unlike VBScript, JScript and ECMAScript are flavors of JavaScript. JavaScript itself was called Mocha in its development phase. (Bron: <https://www.ciwcertified.com/>.)

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You created a webpage containing a form for users to join your company's mailing list. You need to validate user input with the minimum amount of bandwidth. Which technology should you use in the given scenario?

- A. Perl.
- B. PHP.
- C. Client-side JavaScript.
- D. Server-side JavaScript.

Antwoordtoets: C

Feedback:

You can use client-side JavaScript to validate data in specific form fields to make sure the user has entered the required fields. By using JavaScript wisely, you can begin processing client information before it reaches the more resource-intensive server processes. (Bron: <https://www.ciwcertified.com/>.)

Vraag 22 van 22

Which of the following best describes an object-oriented program?

- A. A collection of individual objects that perform different functions.
- B. A sequence of statements that collectively perform a specific task.
- C. A network of objects logically connected to one another that perform a series of tasks.
- D. A collection of objects that perform specific functions in a sequential order.

Antwoordtoets: A

Feedback:

Object-oriented is a common term in programming languages. An object-oriented program is a collection of individual objects that perform different functions, rather than a sequence of statements that collectively perform a specific task. These objects are usually related in a hierarchical manner, in which new objects and subclasses of objects inherit the properties and methods of the objects above them in the hierarchy. (Bron: <https://www.ciwcertified.com/>.)