

Vamos a configurar tu perfil

1. Información básica (Obligatorio)

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País

Select your country

Ubicación

Not applicable

2. Información adicional (opcional)

3. Términos y condiciones (Obligatorio)

[3. Términos y condiciones \(Obligatorio\)](#)



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14/11/2025

ESTRUCTURA DE DATOS [G1] - Desarrollo de habilidades de...

Vamos a configurar tu perfil

1. Información básica (Obligatorio)

2. Información adicional (opcional)

3. Términos

¡Éxito! Tu cuenta ha sido creada.

Si no se le redirige automáticamente, puede hacer clic en el botón de abajo para seleccionar sus áreas de interés.

Confirmo
[Lea los términos y condiciones](#)

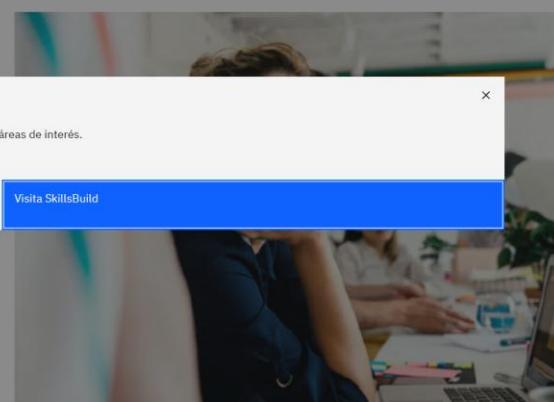
Acepto lo

IBM podrá compartir la información personal recopilada con sus socios y terceros a nivel mundial.

[Lea la Política de Privacidad de Datos](#)

[Visita SkillsBuild](#)

Entregar →



1. No matter the size, all computers have four basic functions: input, processing, output, and storage.
2. 2

Binary code, also known as machine code, is a system that represents all data as either 0's or 1's (false or true). It is the only language that a computer can understand.

3. 3

Computers need hardware (the physical components) and software (the instructions) to accomplish the four functions.

4. 4

The concept of abstraction makes it possible to give a computer instruction without understanding the sheer complexity of the machine by hiding unnecessary details.

5. 5

A compiler translates human readable code into machine code by checking the syntax and translating human-readable code into binary code.

6. 6

The web development process consists of planning and designing, coding, testing, and publishing, and maintenance

7. 7

Client-side programs run on the user's device, while server-side processes run on website servers.

8. 8

A front-end developer creates everything you see on a website, such as text and buttons.

9. 9

A front-end developer primarily uses HTML, CSS, and JavaScript to build websites.

10. 10

A back-end developer writes code to power the front-end experience, including data management, and server responsiveness.

11. 11

A back-end developer uses JavaScript, Python, and Java to develop programs.

12. 12

The World Wide Web is comprised of all the websites that you use. The internet is a network of computers and servers that provide the infrastructure for you to access the web.

13. 13

Web developers can use cloud services to help them to build scalable, robust websites.

The screenshot shows a web browser window for the IBM SkillsBuild platform. The URL in the address bar is aiim.ibm.com/ibm-skillsbuild/adult/trainingid/course4058537/traininginstanceid/course4058537_4630732/en-US. The main content area displays the 'Web Development Basics' course. A sidebar on the left lists completed modules: 'How does the internet work?', 'Web development and cloud computing', 'Quiz', and 'SUMMARY AND FINAL ASSESSMENT' (which includes 'You've come so far!', 'Key points to remember', 'Final assessment', and 'Course completion'). The top navigation bar shows '100% COMPLETE'. To the right, a section titled 'Earn a credential!' is visible, featuring a 'Credential: Web Development Fundamentals' button and a note about completing all courses in the series. A callout box provides instructions for confirming course completion at 100%.

Key points to remember

1. 1

The browser interprets HTML markup and reports using human-readable styles and formats when rendering an HTML document.

2. 2

Markup is wrapping text with indicators that guide what should be done with that text.

3. 3

Markups are text-based and include links to resources, making them easy to interpret and display.

4. 4

A properly structured HTML document includes the HTML tag, the head section, and the body section.

5. 5

HTML attributes are additional data a tag might need to provide the parser with enough information to create the formatting the element needs.

6. 6

A semantic tag clearly describes what it does to the browser and the web developer.

7. 7

Frameworks are tools that heavily use a scripting language like JavaScript to handle data.

8. 8

Developers created the cascading style sheets (CSS) language to add styling to elements of the same class or id without needing to style every element in an HTML document.

9. 9

A style in a stylesheet has three basic parts: A selector, a node name, and a declaration block. The declaration block has one or more styles that are made up of properties and values.

10. 10

A primary feature of CSS is that child elements get the style of parent elements unless they're overridden.

11. 11

CSS mainly focuses on website presentation, and the code can program the text, style, and function of the site.

12. 12

JavaScript controls interactivity on a website, such as button clicking, popups, and refreshing a web page.

13. 13

JavaScript, HTML, and CSS all work together through code to display a web page and all its features.

14. 14

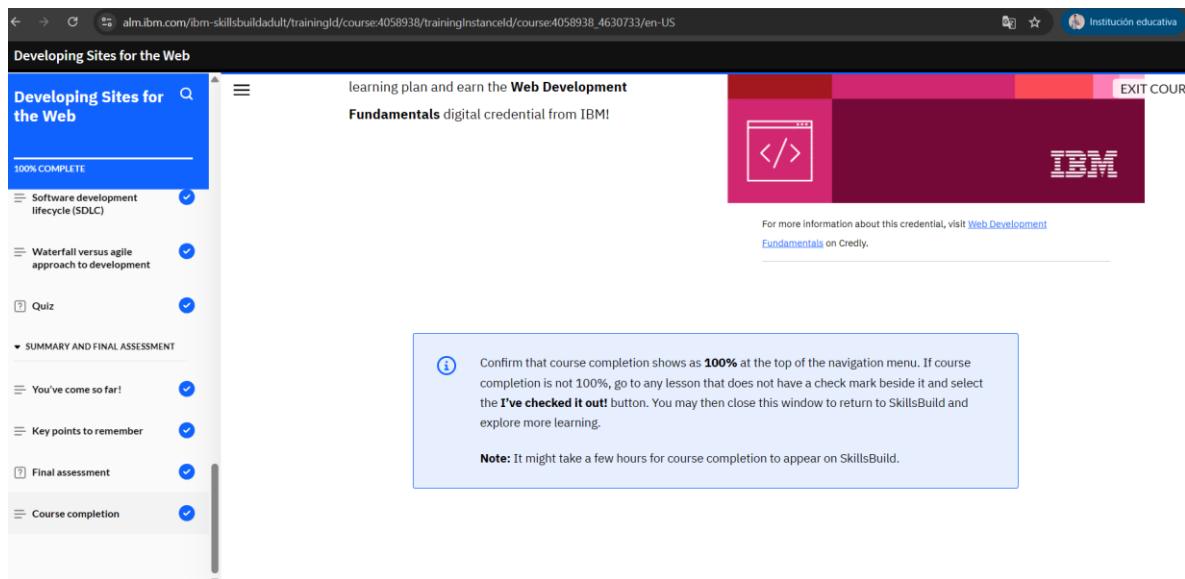
The waterfall approach is a step-by-step action plan that flows downward like a waterfall.

15. 15

The agile approach is iterative, meaning the process is repeated often and sometimes the same steps can be repeated several times.

16. 16

Scrum is an iterative approach to implementing agile in which teams deliver work in sprints and participate in scrum ceremonies.



A screenshot of a web browser displaying a course completion page from IBM SkillsBuild. The URL in the address bar is alm.ibm.com/ibm-skillsbuildadult/trainingId/course:4058938/trainingInstanceId/course:4058938_4630733/en-US. The page title is "Developing Sites for the Web". On the left, there's a sidebar with a navigation menu under "Developing Sites for the Web" with 100% complete status. The main content area shows a banner for "learning plan and earn the **Web Development Fundamentals** digital credential from IBM!". Below the banner, there's a note about the credential and the IBM logo. A callout box contains instructions for confirming course completion at 100% and a note about it taking a few hours to appear on SkillsBuild.

Key points to remember

1. 1

Tags are made up of an opening and closing angle bracket with a tag name in the middle.
Elements are pairs of tags that encapsulate or wrap-around other elements or web content.

2. 2

HTML is a declarative language, meaning it describes the rules for what a page should display and act, but not how a browser should implement those rules.

3. 3

Nesting occurs when developers include some HTML elements in between other HTML elements.

4. 4

An HTML element that contains another is the element's parent. The HTML elements inside the parent are the child elements.

5. 5

HTML documents should include the <html> </html>, <head></head>, and <body></body> elements.

6. 6

Attributes can change the style of the element, set a property, and include metadata for use by a scripting program.

7. 7

Organizing code and content on the page helps make code scannable and easier to navigate making collaboration smoother.

8. 8

The best practices to help web developers stay organized are commenting, style conventions, semantic elements, and organizing the head section in a HTML document.

9. 9

CSS is a collection of styles than a web developer uses to add design to web pages.

10. 10

Styles can be inherited by child elements in HTML from parent elements.

11. 11

External stylesheets are styles that are put in a separate file with a .css extension.

12. 12

A style in a stylesheet has three basic elements: A selector, a node name, and a declaration block.

13. 13

A declaration block has one or more style declarations that consist of properties and values.

14. 14

To add a style to an HTML element, web developers use the class selector, id selector, element selector, or in-line styling on the element that is to be styled.

15. 15

The CSS box model is a method of laying out a website using CSS.

16. 16

CSS boxes have five main components: height, width, margins, padding, and border. Each of these have attributes that provide the web developer with fine-grained control over how the box behaves in a variety of scenarios.

17. 17

Web developers follow best practices of setting doctype declarations for every HTML document, using stylesheets, using closing tags help the browser define the scope of the content, and saving and checking their work often.

18. 18

IDEs are software that has a central user interface that includes all the tools a web developer needs. IDEs simplify the workflow for a developer.

19. 19

IDE features include a code editor, intelligent code compilation, autosave, and integrated debugger.

The screenshot shows the 'Introduction to HTML and CSS' course completion page. The title 'Course completion' is at the top, followed by 'Lesson 40 of 40'. A 'Congratulations' message says 'You're almost done!'. On the left, a sidebar lists completed lessons: 'Use styleSheets over inline styles', 'Remember to close tags', 'Save and check your work often', 'Use the power of integrated development environments (IDEs)', and 'Quiz'. Below these are sections for 'SUMMARY AND FINAL ASSESSMENT': 'You've come so far!', 'Key points to remember', and 'Final assessment'. A pink box on the right says 'Web Development Fundamentals' and 'IBM SkillsBuild'. At the bottom, a button says 'Earn a credential!'.

The screenshot shows the 'Bringing Websites to Life with JavaScript' course completion page. The title 'Course completion' is at the top, followed by 'Lesson 34 of 34'. A 'Congratulations' message says 'You're almost done!'. On the left, a sidebar lists completed lessons: 'About this course', 'Earn a credential!', and 'Course design'. Below these are sections for 'MODULE 1: THE DYNAMIC WEB: AN INTRODUCTION TO JAVASCRIPT': 'About this module' and 'Bring it to life: JavaScript and its uses'. A pink box on the right says 'Web Development Fundamentals' and 'IBM SkillsBuild'. At the bottom, a button says 'Earn a credential!'.

Key points to remember

1. 1

Web developers test websites for user experience and software-related flaws.

2. 2

There are many different types of web tests with specific objectives and strategies, including acceptance, integration, performance, and usability.

3. 3

Web developers should consider the user interface, responsive design, code, APIs, and databases when testing a website.

4. 4

Web developers use version control to track and manage changes to software code.

5. 5

A version control system can include features such as a code repository, collaboration tools, and code deployment.

6. 6

Web developers use the continuous delivery approach to deliver updates to websites so that they can be automatically tested. They use a continuous deployment approach to deliver new builds to users on a regular basis.

7. 7

DevOps is an approach to deployment that promotes closer collaboration between the business that uses the website, website development, and IT operations.

8. 8

The DevOps lifecycle consists of six general workflows that enable web developers to release high-quality websites faster.

9. 9

Web browsers communicate with servers using the Hypertext Transfer Protocol (HTTP), which facilitates requests to load web pages using hypertext links.

10. 10

A website design is responsive when it adapts its looks to the form factor on which it displays.

11. 11

Frameworks are software packages that include code that integrates into a website and assists web developers in developing a responsive site. Frameworks also provide code libraries that can handle data management, control the user interface, and handle common tasks like creating and delivering forms.

12. 12

Web developers use an app wrapper to deliver websites as downloadable apps through an app store or from a website.

13. 13

Web developers can use command-line interfaces, code integration, scheduling tools, blueprinting, and cloud-based tools to automate the deployment process.

14. 14

The cloud has revolutionized web development by providing services, such as hosting, replication, scalability, security, monitoring, and development tools.

15. 15

A software container is a standardized package of software that contains everything that is needed to run a program.

The screenshot shows a course completion page from the IBM SkillsBuild platform. The URL in the address bar is alm.ibm.com/ibm-skillbuildadult/trainingId/course:4058941/trainingInstanceId/course:4058941_4630736/en-US. The page title is "Website Testing and Deployment". On the left, there's a sidebar with a navigation menu:

- Cloud computing and web development (completed)
- Containerization (completed)
- Quiz (completed)
- SUMMARY AND FINAL ASSESSMENT
 - You've come so far! (completed)
 - Key points to remember (completed)
 - Final assessment (completed)
 - Course completion (completed)

The main content area is titled "Course completion" and "Lesson 32 of 32". It features a "Congratulations" message: "You're almost done!" and a pink callout box that says "Web Development Fundamentals" and "IBM SkillsBuild". At the bottom, it says "Earn a credential!"

The image displays two side-by-side screenshots of course completion pages from the IBM SkillsBuild platform.

Top Screenshot: This screenshot shows the completion of the "Develop an Interactive Task List Web Page" course. The title bar indicates "Lesson 27 of 27". The main content area features a large blue header with the text "Course completion". Below this, a "Congratulations" section says "You're almost done!". To the right, a pink box displays the text "Web Development Fundamentals" and "IBM SkillsBuild". On the left, a sidebar titled "Develop an Interactive Task List Web Page" shows a "100% COMPLETE" status. The sidebar menu includes sections like "COURSE OVERVIEW", "About this course", "Earn a credential!", "Course design", and "MODULE 1: YOU'RE A WEB DEVELOPER!".

Bottom Screenshot: This screenshot shows the completion of the "Your Future in Web Development: The Job Landscape" module. The title bar indicates "Lesson 22 of 22". The main content area features a large blue header with the text "Course completion". Below this, a "Congratulations" section says "You're almost done!". To the right, a pink box displays the text "Web Development Fundamentals" and "IBM SkillsBuild". On the left, a sidebar titled "Your Future in Web Development: The Job Landscape" shows a "100% COMPLETE" status. The sidebar menu includes sections like "ABOUT THIS MODULE", "Roles on a web development team", "MODULE 5: HELPFUL RESOURCES AND GETTING STARTED", "About this module", "Resources to explore", "Getting started in the field", "SUMMARY AND FINAL ASSESSMENT", "You've come so far!", "Key points to remember", "Final assessment", and "Course completion".

skills.yourlearning.ibm.com/activity/PLAN-B749C02A78EC?focusItemId=CREDLY-ce744ad1-ca21-498e-a9ea-8c01f792977d

IBM SkillsBuild

Plan de aprendizaje

Fundamentos del desarrollo web (¡Obtén una certificación!)

Unas 12 horas 34.716 2.040

Completado 100% 7 completados de 7 requeridos

Información de la cuenta de Credly Completo

Cursos Completo

Información de credenciales Opcional

Acerca de este plan de aprendizaje

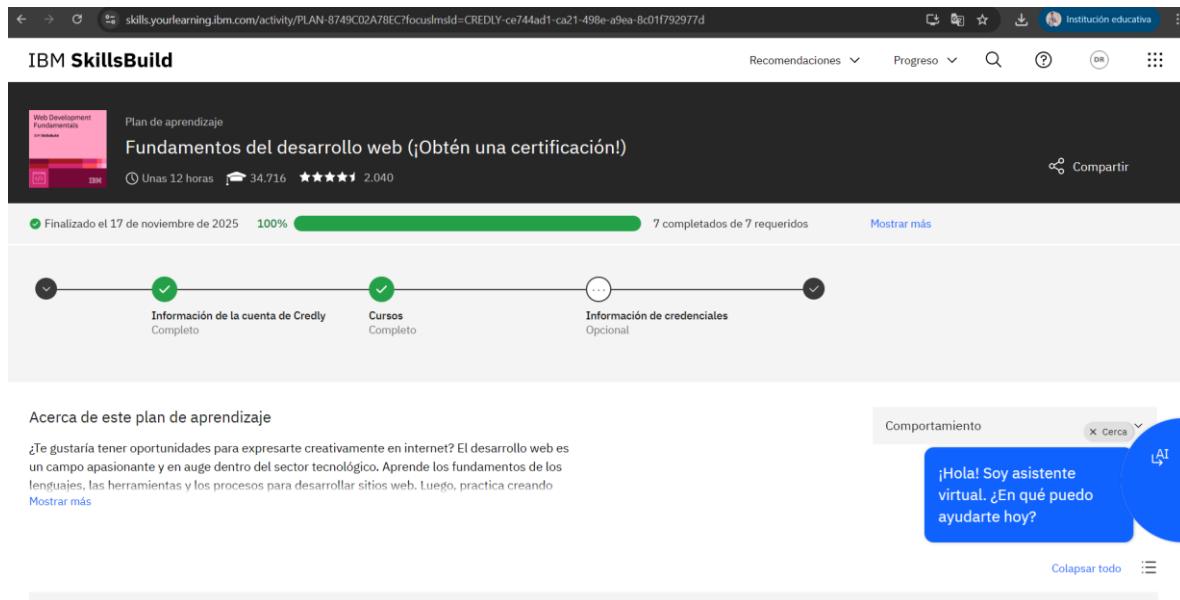
¿Te gustaría tener oportunidades para expresarte creativamente en internet? El desarrollo web es un campo apasionante y en auge dentro del sector tecnológico. Aprende los fundamentos de los lenguajes, las herramientas y los procesos para desarrollar sitios web. Luego, practica creando.

Mostrar más

Comportamiento

¡Hola! Soy asistente virtual. ¿En qué puedo ayudarte hoy?

Colapsar todo



In recognition of the commitment to achieve professional excellence

Web Development Fundamentals

IBM SkillsBuild

IBM

DHARYN ANDREE RUIZ FLOREZ

Has successfully satisfied the requirements for:

Web Development Fundamentals

Issued on: Nov 17, 2025

Issued by: IBM SkillsBuild

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