

Multiple Choice

1. What is a unique text-based Internet address corresponding to a computer's unique IP address called?

Answer: domain name

2. Select the item below that indicates the top-level domain name for the URL `http://www.mozilla.com`.

Answer: com

3. Of the following organizations, which one coordinates applications for new TLDs?

Answer: Internet Corporation for Assigned Numbers and Names (ICANN)

4. Which of the following is a network that covers a small area, such as a group of buildings or campus?

Answer: LAN

5. Which of the following organizations takes a proactive role in developing recommendations and prototype technologies related to the Web?

Answer: World Wide Web Consortium (W3C)

True or False

6. A URL is one type of URL.

Answer: True

7. Markup languages contain sets of directions that tell the browser software how to display and manage a web document.

Answer: True

8. The World Wide Web was developed to allow companies to conduct e-commerce over the Internet

Answer: False

9. A domain name that ends in .net indicates that the website must be for a networking company.

Answer: True

10. An accessible website provides accommodations that help individuals overcome barriers such as visual, auditory, physical, and neurological disabilities.

Answer: True

Fill in the Blank

11. _____ is the set of markup symbols or codes placed in a file intended for display on a web browser.

Answer: HTML (Hypertext Markup Language)

12. A _____ can be configured to house a separate website located at the same domain.

Answer: Subdomain

13. A standard language used for specifying a markup language or tag set is _____.

Answer: SGML

14. Frequently communicating by posting brief messages at a social networking site is called _____.

Answer: Microblogging

15. The purpose of _____ is to ensure the integrity of network communication.

Answer: TCP

Hands-On Exercise

1. <https://x.com/DNiels313209/status/1758975989684855208?s=20>

<https://x.com/DNiels313209/status/1758978486130430244?s=20>

<https://x.com/DNiels313209/status/1758981537046126864?s=20>

2.

<https://dereknielsenscswb110.blogspot.com/2024/02/derek-nielsen-cswb-110-website-notes.html>

https://dereknielsenscswb110.blogspot.com/2024/02/derek-nielsen-cswb-110-website-notes_23.html

https://dereknielsenscswb110.blogspot.com/2024/02/derek-nielsen-cswb-110-website-notes_80.html

Web Research

1.

a. The World Wide Web Consortium (W3C) was founded by Sir Tim Berners-Lee in 1994 at the Massachusetts Institute of Technology (MIT) with the mission to develop common protocols and specifications that ensure the long-term growth of the Web.

b. The W3C is open to various organizations and individuals interested in contributing to the development of web standards. Membership is typically open to corporations, research institutes, government agencies, and individuals. There are different levels of membership with associated costs, ranging from full membership to affiliate, and participation may involve fees.

c. Without direct access to the W3C website, I can't provide specific information on current technologies listed there. However, the W3C typically covers a wide range of web technologies and standards such as HTML, CSS, SVG, WebRTC, and more. If you have a specific technology in mind, I can provide information based on my existing knowledge up to January 2022.

2.

a. The Internet Society (ISOC) was created to promote the open development, evolution, and use of the Internet for the benefit of all people throughout the world.

b. To find the closest local chapter to you, you would typically visit the Internet Society's website and navigate to their chapters or affiliates section. Each chapter might offer different activities or services based on their local community's needs and interests. Common activities could include educational workshops, networking events, policy advocacy, and community outreach programs.

c. Membership in the Internet Society is usually open to individuals and organizations interested in supporting its mission. There may be different membership levels with associated costs, including free memberships and paid memberships with additional benefits. Whether a beginning web developer should join would depend on their specific interests, goals, and the resources they're seeking. Joining ISOC could provide opportunities for networking, learning, and contributing to Internet-related discussions and initiatives, which could be beneficial for someone looking to expand their knowledge and connections in the field. However, the decision would ultimately depend on individual preferences and circumstances.

3.

a. Multiplexing: HTTP/2 allows multiple requests and responses to be sent and received in parallel over a single TCP connection. This means that multiple resources can be requested and delivered simultaneously, reducing the impact of latency.

b. Header Compression: HTTP/2 uses header compression techniques to reduce the overhead of sending redundant header information with each request and response. This helps to decrease the amount of data that needs to be transmitted, resulting in faster loading times.

c. Server Push: HTTP/2 introduces server push, which enables the server to proactively send resources to the client before they are requested. This allows the server to anticipate the client's needs based on the initial request and preload relevant resources, further reducing latency and speeding up the loading of web pages.

Focus on Web Design

1. Visit a website that interests you. Print the home page or one other pertinent page from the site. Write a one-page summary of the site that addresses the following topics:

- a. What is the URL of the site?
- b. What is the purpose of the site?
- c. Who is the intended audience?
- d. Do you think that the site reaches its intended audience? Why or why not?
- e. Is the site useful to you? Why or why not?
- f. Does this site appeal to you? Why or why not? Consider the use of color, images, multimedia, organization, and ease of navigation.
- g. Would you encourage others to visit this site? Why or why not?
- h. How could this site be improved?

https://docs.google.com/document/d/10Qr0_Vcb2FB_TxJCuTagXS0g5i0byMlA0m9Zwpdi4Tc/edit?usp=sharing

