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WEB 110 - 3229

Introduction To The Web

Understanding How The Web Works (2:37)

* **What are clients?**

Clients are the devices that request and render web content. Popular clients include browsers, mobile applications, screen readers, and various content aggregators.

Working with clients and servers (2:38)

* **When we type in a URL, the request does not typically go first to the web server. Where does it go?**

When we type in a URL, the request is usually passed on to a domain name server or DNS. The DNS then translates the URL into an IP address. The browser then uses this IP address to locate the host's server and send a request for the content

* **[True or False] In response to a web request, all required files are sent at the same time**

False

The DNS and why it matters (4:41)

* **[Critical Thinking] Why is it important to understand DNS when helping a client change hosting companies?**

You need to make sure that the domain names are registered to the correct IP, as well as make sure that ownership of the site is properly registered. Most clients are going to want you to handle the registering the site and getting the host set up. If you register in your name, you own that site. Getting the site transferred from one hosting company to another and thereby changing the DNS listing would be impossible without your assistance. Hosting companies will not make changes without the owner's consent.

Exploring HTTP (4:13)

* **What does the author mean when he says HTTP is a stateless protocol?**

When the author says HTTP is a stateless protocol, he means that once a request has been sent and received it's discarded and forgotten by both the browser and the web server. This makes HTTP a simple and efficient protocol, and it's the reason it's so successful for the web.

Anatomy of a URL (7:13)

* **[Critical Thinking] What is the purpose of a subdomain?**

A Subdomain is a folder that your web content is located in on your web server, often used to organize your existing website into a separate site.

How browsers work (4:32)

* **Which rendering engine is based on WebKit and used under the hood to develop Chrome?**

The rendering engine based on Webkit which is used under the hood to develop Chrome is Blink.

Web standards and the W3C (3:46)

* **[Critical Thinking] Why are web standards important to web developers?**

Web standards are important to web developers as they help to achieve a more stable web, reduce development/maintenance time, allow backward compatibility, increase search engine success and overall common knowledge among web developers.

Web server basics (3:02)

* **[Critical Thinking] What is the LAMP stack?**

Linux (operating system), Apache (web server), MySQL (database server), PHP (programming language) and is by far the most commonly used web stack in web servers, which is open source meaning it is cheap to build and easy to run.

* **[Critical Thinking] Why is it important to know what stack is being used by your host?**

It is important to know what stack is being used by your host because you need to make sure that whatever hosting service you choose has a stack that works with the scripting and database choices you've made for your site.

Front End Technology

Front end design (3:11)

* **[True or False] According to our author, front end design is commonly associated with the server.**

False

* **What are the three languages the author associates with front end design?**

The three languages the author associates with front end design are HTML, CSS, and JavaScript.

HTML the language of the web (3:54)

* **[Critical Thinking] Why was HTML5 created?**

HTML5 was created to retain the backwards compatibility of previous versions of HTML, while adding new structural tags and support for APIs, that allow elements to be edited, dragged and dropped, and facilitate communication from within the HTML document without needing outside scripting.

Structuring HTML (4:22)

* **[Critical Thinking] What does the <head> of an HTML document contain?**

The head of an HTML file contains all of the non visual elements that help make the page work.

Controlling presentation through CSS (4:22)

* **[Critical Thinking] What does the term cascade mean?**

The term cascade refers to how styles are applied to pages.

* **What’s the benefit of using a separate file to store your CSS?**

The benefit of using a separate file to store your CSS is to avoid duplication and keep the HTML purely semantic while letting CSS handle the styling.

* **In CSS, what separates a property from a value?**

In CSS, properties and values are separated by colons and use the semicolon to tell the browser to move on to the next rule.

Client side scripting with JavaScript (4:40)

* **[Critical Thinking] What is the purpose of JavaScript?**

The main purpose of JavaScript is to be used as a client side scripting language, and can write logic for client side as well as server side.

Common image types (5:31)

* **Which 2 types of graphics support transparencies?**

The two types of graphics that support transparencies are PNG and GIF.

* **Which type of image scales without any loss in quality?**

The type of image that scales without any loss in quality is SVG.