"Web Development Foundations: Web Technologies" (WDF) *by James Williamson*

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## Introduction To The Web

Understanding How The Web Works (2:37)

1. **What are clients?**

ANSWER: browsers, mobile apps, screen readers, various content aggregators

Working with clients and servers (2:38)

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

ANSWER: When your browser makes a request it uses a URL to locate the requested content. THis request is usually passed on to a DNS Server which translates the URL into an IP address. The browser then uses the IP to locate the host server and request the content.

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

ANSWER: True

The DNS and why it matters (4:41)

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

ANSWER:

1. If the DNS is not assigned properly when you register a site, no one will be able to find you.
2. When hosting multiple sites with similar names, you need to make sure that the domain names are registered to the correct IP
3. You need to make sure that ownership of the site is properly registered

If you host the site in the wrong name, hosting companies will not make changes without the owner's consent.

1. DNS caching can take up to 24hrs

Exploring HTTP (4:13)

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

ANSWER: Once a request has been sent and received it is discarded by both the browser and the web server.

Anatomy of a URL (7:13)

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

ANSWER: Subdomains allow servers to identify unique sites or unique areas of content. The “www” subdomain had evolved as the default for most web content. It’s a tool you can use to dedicate a section of your site it’s own hierarchy without setting up a new site.

How browsers work (4:32)

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

ANSWER: Blink

Web standards and the W3C (3:46)

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

ANSWER: Standards ensure consistency across browsers. Standards also make it so developers do not need to make multiple sites for different browsers.

Web server basics (3:02)

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

ANSWER: Linux, Apache, MySQL, PHP/Pearl/Python. It is the most popular stack used on web servers.

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

ANSWER: You need to host your site on a server that can process your pages working with the scripting and database choices you have made for your site.

## Front End Technology

Front end design (3:11)

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

ANSWER: False

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

ANSWER: HTML, CSS, JAVA Script

HTML the language of the web (3:54)

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

ANSWER: Because XHTML was so similar to HTML4 and it wasn't backwards compatible developers weren't using it. WHATWG continued to develop HTML and came up with HTML5, retaining backwards compatibility and adding new structural tags and API’s which allow elements to be edited, dragged and dropped, and facilitate communication from within the HTML document without needing scripting.

Structuring HTML (4:22)

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

ANSWER: The head tag contains all the non visual elements that make the document work such as meta tags, key words, links to external sources, script libraries, or internal script.

Controlling presentation through CSS (4:22)

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

ANSWER: How the styles are applied to pages

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

ANSWER: Using a separate document for your CSS allows for better control of the site, smaller file size, and fast loading times.

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

ANSWER: a colon separates the property and value. A semicolon is used to move on to the next rule.

Client side scripting with JavaScript (4:40)

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

ANSWER: Java is used on both client side and server side to make websites interactive.

Common image types (5:31)

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

ANSWER: .gif, .png and .svg

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

ANSWER: .gif, .png, .svg