"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: Clients are the devices that request and render web content. Popular clients include browsers, mobile apps, screen readers, and the 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: The request is usually passed on to a domain name server or DNS

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

ANSWER: False

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: Because DNS is connected to the internet and private network, so if you miss to register your site, no one will be able to see your website.

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’s discarded and forgotten by both the browser and the webserver.

Anatomy of a URL (7:13)

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

ANSWER: Subdomains can be easy to find your websites.

How browsers work (4:32)

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

ANSWER: Webkit = Safari, and Chrome = Blink is a rendering engine that’s based on Webkit, but it’s being developed separately by google

Web standards and the W3C (3:46)

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

ANSWER: Because their goal is all websites work equally for everyone.

Web server basics (3:02)

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

ANSWER: LAMP stack is the most used web stack on webserver. Linux, Apache, Mysql, and PHP are open source, so it’s very easy and cheap to build websites

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

ANSWER: Because when you use Cold fusion to your server, it doesn’t work if you don’t know the stacks.

## 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, and JavaScript

HTML the language of the web (3:54)

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

ANSWER: I’ve never used HTML1 to 4, but I think 5 is more improve than previous HTML. In my experience, HTML5 is very easy to create websites and documents to everybody even if they don’t know how to use Python or C++. I still don’t know how to use Python, I am very enjoyable to make a website using HTML5.

Structuring HTML (4:22)

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

ANSWER: <head> includes meta, title, link, and style.

Controlling presentation through CSS (4:22)

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

ANSWER: Cascade means more than one stylesheet declaration can make and create to other stylesheets of HTML.

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

ANSWER: You can use one file for your whole site it’s a much more efficient way of writing your style.

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

ANSWER: These are separated by colons and the use of the semicolon to tell the browser to move on to the next rule.

Client side scripting with JavaScript (4:40)

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

ANSWER: I think Javascript is using for clients because it would be more visible to see the website to use animation stylesheets.

Common image types (5:31)

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

ANSWER: GIFs and PNG

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

ANSWER: SVG