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

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## Introduction To The Web

Understanding How The Web Works (2:37)

1. **What are clients?**

ANSWER: The devices that request and render web content

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 URL is passed onto a DNS Server

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: If the DNS is registered incorrectly such as registered under the wrong owner name changing the hosting company will become more difficult/time consuming.

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 its discarded and forgotten by both browser and web server

Anatomy of a URL (7:13)

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

ANSWER: The folder that web content is located on

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: To prevent having to create a webpage that would look good on multiple browsers due to different browsers doing different things

Web server basics (3:02)

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

ANSWER: Linux(OS), Apache(web server), MySQL(database server), PHP(programming language) the most commonly used web stack on web servers

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

ANSWER: If your website doesn’t have the resources required by your script it won’t work

## 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: The UI layer of websites

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: In response to the disappointment towards XHTML 2.0 release

Structuring HTML (4:22)

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

ANSWER: Non-visual elements that help make the web page work i.e. meta tags, page descriptions, links to external resources,

Controlling presentation through CSS (4:22)

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

ANSWER: Refers to how the styles are applied to the pages

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

ANSWER: One CSS file is used to style the whole website

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

ANSWER: A colon

Client side scripting with JavaScript (4:40)

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

ANSWER: Used to add interactivity and application functionality to websites

Common image types (5:31)

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

ANSWER: PNGs and GIFs

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

ANSWER: SVGs