**Web Fundamentals**

Same intro notes as the technical teamwork

**04/24/2025 (Day 1):**

Tim Berners-Lee:

* Born in London, 1985
* Invented the World Wide Web
* He is trying to make a new www, and making SOLID POD, which allows people more personal control over their data
* Queen Elizabeth II knighted Tim Berners-Lee
* He gave the world wide web away for free

Vint Cerf:

* Inventor of the TCP/IP protocols with Bob Kahn
* Born in New Haven, Connecticut
* Worked at Stanford University, UCLA, DARPA
* Became a Vice President and Chief Internet Evangelist at Google
* Has a star named after him
* Always wears a 3 piece suit

Bob Kahn:

* Born December 23, 2938 in Brooklyn, New York
* Elected into the National Academy of Engineering
* Elected as a founder of Association for the Advancement of Artificial Intelligence

Marc Andreessen:

* From Cedar Falls, Iowa
* Co-founder of Mosaic (First web browser with a graphical interface)
* Co-founder of Netscape (upgraded Mosaic)
* Co-founder of Andreessenn Horowits (investment firm)
* Serves on the board of Meta
* Fun fact: In 2009, he issued a $25,000 reward for information leading to a conviction in the 1987 unsolved murder of Barbara Blackstone, a teacher from New Lisbon High School in Wisconsin, which he attended.

**04/24/2025 (Day 2):**

Elder Ballard’s talk:

* Bear Testimony
* Share Experience
* Open hearts
* Clarify questions
* Avoid contention, arguments, debates
* Be humble, don’t act like you know everything
* Don’t expose sacred doctrine
  + Ex: Temple
* Be authentic, show the love and joy from living the gospel

Web Stuff:

* HTML (HyperText Markup Language)
* <!DOCTYPE html>
* <html> = opening tag, </html> = closing tag
* <head> = important info for browser
* <title> = title of the web
* <body> = paragraph of the website
* <h1> = Heading tag (1 = biggest, 6 = smallest)
* <a> </a> = anchor, makes a hyperlink
* <a href=”https//:www.byui.edu”>BYUI</a>
* <title> (text shows up in the tab in the browser, not in the page) </title>

**Web Basics Videos**

**Internet and WWW basics:**

* Internet: net of computers that can communicate with each other (TCP/IP)
* WWW: giant collection of documents and apps on the internet (HTTP)
* Client (Front-end): Ex:
  + HTML
  + CSS
* Back-end (Server): Ex: logging in, using database from website, processing info from a forum
  + Python
  + PHP
* Client sends a request to server, DNS applies IP to Domain name, the Server responds to the request

**HTML CODE:**

* HyperText Markup Language (links, symbols and tags that structure code)
* H1,h2,p elements
* <body> elements:
  + <header>: shows up in the browser window, top of webpage
    - <nav> (navigation links, usually holds a elements) </nav>
    - <a href=”index.html”>Home</a>
  + Ex: company logo or a menu
  + <footer>: shows at bottom of page, stays the same
  + <main>
    - <img src=”voyager.jpg” alt=”docking station”>
      * Src = source (path and image)
      * Alt = alternative text shown under image

**CSS CODE:** (csszengarden.com)

* Presentation of the HTML elements; it’s a separate code
* Cascading Style Sheets
  + In line CSS
  + Embed CSS inside style tags
  + Best way: make a separate CSS file, so different web pages can share the same style sheet; can make style changes on several pages at once.