**QUIZ 1**

**Section 1**

Copy these three questions into a new Word document and answer them in **long-form**.

1.1 Describe in your own words how the web works! Make sure to mention the two primary entities involved, how these entities are identified, and the communications standard that is used between them. The web consists of many computers which can communicate over a network. In most communications there exists what’s known as a client and a server. Each is identified by an IP address, which is a number representing where that computer can be found in the network. For most web traffic, a protocol called HTTP or HTTPS is used to transfer data between the client and server. HTTP is built on top of TCP/IP, allowing reliable data transfer and acknowledgements.

1.2 What is the function of the Hosts File in an operating system? Where does it live on Windows? Where does it live on Unix (including macOS)? How can it be used in testing websites that are developed locally on your machine? The hosts file is a way to define mappings from hostnames to IP addresses. On windows, the file is at “C://Windows/System32/drivers/etc/hosts” and on UNIX it is at “/etc/hosts”. It is useful in development to map domain names to localhost, to text local web servers.

1.3 State **four** advantages to separating style sheet information (such as the use of CSS stylesheets) from content (as in HTML documents) when developing web applications. 1. Separate stylesheets makes it possible to reuse code between pages 2. Cleaner, shorter, code files, each serving a distinct purpose of markup or styling

3. Allows better caching of resources to improve browser performance

4. Modularity – entire style of pages can be changed by linking different stylesheets

**Submission**

1. Put all your files into a folder name *RCSID*-quiz1
2. Zip up that folder
3. Rename the zip file to websysquiz1-*yourname*-*RCSID*.zip
4. Submit it to the LMS drop appropriate for your section (12:20 - 2:10 is Section 1; 2:30 - 4:20 is Section 2)

**Extra Credit (+5 points)**

1. Name an Internet protocol **older** than HTTP. Provide a valid URI for that protocol.

TCP was used well before HTTP was around, first documented in 1974

https://tools.ietf.org/html/rfc675