

Exam #1 study sheet

Here are some topics which you should be sure to study. This is not intended to be an exhaustive list – I have left out some of the details, but these are the main topics you should know about.

Introductory Material

- What is a network?
- IP Addresses
- Port numbers
- Packets
- TCP
- UDP
- Client/Server Model
- Web servers
- How browser and web server communicate via HTTP
- World wide web
- DNS
- URLs

Focusing on HTML

- Tags (in pairs, or solitary)
- Elements
- Creating a **complete** HTML web page that will always validate
- Paragraphs, headings (h1 through h5)
- HTML comments
- Attributes and value
- Lists (ordered, unordered, using numbers, letters, etc.)
- Nesting lists
- Links
- Images
- Tables (including colspan/rowspan, etc.)
- Block vs. inline elements
- Div and span

Focusing on CSS

- Know the role of CSS and the role of HTML in web page development. You should understand how CSS rules that are declared in one context can be overridden in a more local context.
- Know the syntax for declaring CSS style rules. Style rules can be placed in three different locations. You should understand when and how to place the rules in the three locations. You do not need to memorize the syntax for the “link” element that is sometimes placed in the head

section of HTML documents, but you should know the syntax for the “style” tag (in the head section of the document) and the HTML style attribute (used for inline CSS declarations).

- You should know the meanings of the words “child”, “parent”, “descendent”, etc.
- You should understand the following units: px, pt, vw, vh, em, and percentages
- Know how to write a CSS comment.
- You should be familiar with the universal selector.
- You should understand and know how to use an identifier (both in the HTML file, and to create rules in a separate CSS file).
- You should understand and know how to use a class (both in the HTML file, and to create rules in a separate CSS file).
- You should know how to use the pseudo-classes for links (there are 4 of these).
- You should know the syntax for creating borders around elements using CSS.
- You should know what the “box model” is and know the syntax for adjusting padding and margins around an element.
- You should know the syntax for specifying fonts using CSS.
- You should know the syntax for creating background colors in CSS. (You do NOT need to memorize the syntax for creating backgrounds using images).
- You should understand the following values for the position property: relative, fixed, and absolute.

Focusing on Javascript

- Placing Javascript within the HTML document (using script tags)
- Know what strings are and how to concatenate them
- Alert boxes
- Arithmetic operators
- Variables
- Prompt for input
- Number function
- Comparison operators
- Equality operators