COMPSCI 120 Fall 2017
Review Questions for Midterm #2
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UNIX

What do the 9 permission letters represent (`rwxrwxrwx`)?

How do you know if you have the permission or not?

What is the command used to see which folder you are currently in? What does this stand for?

What is the permissions code for user and group to have full access but others have none?

What does the `ls -al` command do?

What is the text editor we use for creating/modifying code?

Does UNIX typically show you the results of the commands you type in?

What do the permissions `rw-r--r--` mean?

What do the permissions `rwxr-xr-x` mean?

What does `chmod 755 filename` do to the permissions on the file?

What does `chmod a+rx filename` do to the permissions on the file?

In UNIX, how do you set permissions for all the files in the current folder where user has read and write permission and group and others have read permission?

When you open a telnet connection to the `elsrv3` server, is the UNIX you are talking to running on your PC/Mac?

What is the `cd ..` command used for?

What does `cd foldername` do in UNIX?

What does `pwd` stand for and what does it mean?

What folder on the server contains Web files?

Explain what happens when you type `mkdir public_html`

What is considered the "wildcard" symbol in UNIX?

What is emacs?

What do you type at the command prompt to bring you up one level?

GRAPHICS

Describe the aspects of both lossy and lossless compression.

Define lossless and lossy compression. What image types utilize which compressions? Which would you choose for a photographed image? A cartoon image?

On graphics on the computer, where would the pixel <0,0> be located?

What file format was considered controversial during the 1980s-1990s because of patent issues?

What are the differences between `.bmp, .jpg, .gif, .png,` and `.svg` files?

What are the pros and cons of each graphics file type?

How many colors does each format support?

What image type(s) support transparency?

Where is anti-aliasing used?

What type of image would be best for representing a cartoon? Explain your reasoning.

How do you figure out what the coordinates are in a pixel-based (bitmapped) image?

TELNET

What is telnet?

What is the difference between telnet and ftp?

What was one of the problems with traditional telnet and ftp as they were first built?

With a telnet session what will the server do if you have 3-4 failed log-ons in a row?

What makes PuTTY or ssh different from traditional telnet?

FTP

How do we move files from one place to another?

What does FTP stand for?

Which FTP program is used on a Mac and which is used on a PC?

In WinSCP what kind of things do you use the Text or Binary transfer settings?

When copying files from your local machine to the server, what transfer method should you use for a file saved in Windows Notepad or Mac TextEdit? What about for a graphic file? Why?

Why can FTP be embedded in other software? Give an example.

What is the main difference between UNIX ftp and a Windows/Mac based ftp program?

In WinSCP/Fugu, which side contains the files on your computer and which side contains the files on the UNIX machine?

HTML

Should you ever assume that you typed in all your coding correctly the first time around?

What is the basic structure of any Web page?

What is the difference between the `<BR>` tag, the `<HR>` tag, and the `<P>...</P>` tag pair?

How do you add an image into a webpage?

If you have a very long page and you want a link at the top of the page which then jumps to the bottom of the page, what are the two things you need?

How would you create a link, in HTML, that would open a new message to a specified email address in the default email server?

How can you make an image contain several links to separate websites?

What is a "Client Side Image Map"?

What values are used when specifying circles in an image map?

What shapes can you make in an image map?

In this client side image map code, what is the radius of the circle?

```
<AREA SHAPE="CIRCLE" COORDS="50,45,42" HREF="...">
```

When making a picture link map and you use the code:

```
<AREA SHAPE="DEFAULT" HREF="...">
```

Should this appear as the first line in a map or the last line?

Is it necessary to duplicate the first point of a polygon as the ending point?

Write the code for a client side image map for a rectangle with corner coordinates located at <180,150>...<350,400> with a link to `http://www.facebook.com/`

What function does the `TARGET="_blank"` part of the code below serve?

```
<A HREF="http://www.cnn.com/" TARGET="_blank">cnn.com</A>
```

How many sets of coordinates are needed to put a rectangle into an image map, and what position are the coordinates in relation to the object itself?

When you have numerous overlapping shapes linking to other web pages in your client side image map what happens when you click on the overlap region?

How do you create a link that opens the user's default mail program with an email address already filled into the "to" field?

How can we create an internal text link?

What does the tag `<TABLE BORDER>` do?

How do you make the table border line thicker?

What elements are used to create rows and cells in a table?

What is the tag for a row when making a table in HTML code?

What are deprecated HTML tags? What tags are considered deprecated? Why?

How do you change the text color in HTML? (Both deprecated and CSS)

How do you change the background color in HTML? (Both deprecated and CSS)

What country code is indicated by: `http://www.xyz.ru`

What does it mean when a URL in `.jp`?

How many colors are possible using the hex triplet color system?

What's the hex code for `RebeccaPurple`?

What do you use an anchor tag for?

What are the two types of lists we have learned in Web and what is the HTML code for them?

What is the difference between an ordered list and an unordered list?

What are the appropriate tags for an unordered list?

How do you change the symbol on an unordered list from bullets into a disc?

What does `<UL TYPE="square">` do?

What we can do to form an ordered list with Arabic numbers?

Write the HTML tags to turn the color of a section of text blue.

What do the tags `<!-- ... -->` stand for?

What tag is used to close an HTML document?

What is the difference between the tags `<UL>` and `<OL>`?

What are frames and why would we use frames?

Do all modern web browsers support frames?

What is used to define a group of frames?

What are the disadvantages of using frames?

What is the purpose of the `<NOFRAMES>...</NOFRAMES>` tag?

What is a `<FORM>...</FORM>`?

What does `<SELECT NAME="List1">` do?

What does `<INPUT TYPE="checkbox" ...>` do?

How should this code be altered to make the checkbox checked by default?

```
<INPUT TYPE="checkbox" NAME="Checkbox1">My Checkbox 1
```

Please write the code to make a list similar to the following:

1. Monday
   a. Class
   b. Work
   c. Class
2. Tuesday
   a. Class
   b. Work

CSS

What does CSS stand for?

Should you ever assume that you typed in all your coding correctly the first time around?

What is the code that must be typed in every single HTML document in order to use CSS styles?

What is the purpose of using style sheets in HTML?

Give two examples of issues that are solved by using cascading style sheets.

In CSS, if a width is not specified we assume it is measured in what units?

What is one issue with not using a style sheet?

What is the code to link an external text file style sheet to the HTML document?

How do you create a font style in CSS?

If you have a style sheet linked to your web page, but want to override only the H2 heading colors to yellow for example, what are some of your options to do so?

How would you insert a horizontal line with a width of 50% into an HTML document?

True or False: CSS declarations should be capitalized?

Where do the tags `<STYLE>` ... `</STYLE>` appear?

What is the difference between the `<STYLE>` block and the `STYLE="..."` attribute?

What is the "Cascade"?

JAVASCRIPT

Do all Web browsers support JavaScript?

Should you ever assume that you typed in all your coding correctly the first time around?

Are Java and JavaScript the same thing?

What is an advantage to programming vs. manual input of HTML codes?

What is a disadvantage to programming vs. manual input of HTML codes?

What are the four types of flowchart styles presented in class?

What is a variable?

Some languages support static data types, other languages support dynamic typing. What is the difference? Which does JavaScript use?

What is the code to ignore JavaScript?

How do you write a line in JavaScript to insert a `<BR>` tag into the current HTML document?

What symbol do you put at the end of every statement in JavaScript?

What does adding `var` in front of a variable do?

What does keeping variables local to a function prevent?

What does `parseFloat` do?

What does `String` do?

In regard to JavaScript, a reserved piece of memory that has a name, a data type and a value is referred to as a _____.

What is the difference between selection and looping?

What is looping? Give an example.

What is an infinite loop?

Numbers in JavaScript are not integers, what are they exactly?

Does JavaScript have infinite precision? If not, then what are the limits?

What is the maximum normal double precision floating point number value?

How many digits of precision do double precision floating point Numbers have in JavaScript?

What is a syntax error in JavaScript?

Describe a run time error.

A forgotten comma or improper spacing is an example of what kind of error?

What other types of errors are possible in JavaScript?

In JavaScript, what is the function of a semicolon?

Where can the tags `<SCRIPT>...</SCRIPT>` appear?

What is the main purpose of functions?

What is the point of including `<!--` and `//-->` in HTML documents that include JavaScript?

What does `<SCRIPT TYPE="text/javascript">` do? How are `<SCRIPT>` or `<SCRIPT LANGUAGE="JavaScript">` different?

List two ways that JavaScript can be used in Web pages?

When writing Java Script, if I were to write a piece of code designed as a loop/iteration, as long as the condition was <u>false</u> every time, would it continue to loop over and over forever?

When writing Java Script, if I were to write a piece of code designed as a loop/iteration, as long as the condition was <u>true</u> every time, would it continue to loop over and over forever?

Create a JavaScript function that returns its single numeric argument divided by 3.

Write a loop statement that prints x and decrements it while it is greater than or equal to 1.

Write a simple JavaScript loop that will produce the outcome: 0 1 2 3 4 5 (one per line).

What's wrong with this line of code? `document.writeln(i, Math.sqrt(i), <BR>)`

Does JavaScript read the following lines differently?

```
document.writeln("Hello");
document.writeln('Hello');
```