CMPT 165 Midterm review & prep. session

June 22nd, 2015



- Internet & WWW
- Markup
- CSS
- Graphics
- Color

Today, for each topic, we'll review:

- key concepts
- do some practice questions as well...

- Internet & WWW
- Markup
- CSS
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- Color

Questions on WWW

- 1. Web browser is a software. T/F?
- 2. Software also includes hardware and memory storage. T/F?
- 3. Name 2 types of software.

4. Name 2 types of wired network.

5. Name 2 types of wireless network.

1 min.

Questions on WWW

- 6. Router is a computer device. T/F?
- 7. IP is an identifier. T/F?
- 8. Protocols are a set of rules. T/F?
- 9. URL is an identifier for a resource published on the web. T/F?
- 10. What is the **scheme** in the following URL? https://www.sfu.ca

Uniform Resource Locator (URL)

http://www.sfu.ca/learning/study-abroad.html

Scheme: type of network protocol

Server: domain name of a server

Path: the location of a specific file stored on server

Review these terms too:

Hardware

Software

Application software

Operating system

Malware

Data

Bits

Bytes

Memory storage

Internet structure

Modem

Router

ISP

Fiber optic

ADSL

TV cable

Ethernet

Wi-Fi

Client/server

IP address

Protocols

HTTP

FTP

HTTPS

URL

MIME

HTML

HTML Tags

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Questions on markup

11. Inline tags tend to expand across the page?	T/F
12. is a generic block tag?	T/F
13. <div> is a generic block tag?</div>	T/F
14. is an inline tag?	T/F
15. is preferred over ?	T/F
16. <bold> is a formatting tag?</bold>	T/F
17. is preferred over ?	T/F
18. and are equivalent?	T/F

Questions on markup

19. is also known as a style selector. T/F?

20. Given:

What are 2 attribute specifications shown in above?

_____**/** ______

Which required attribute specification is missing?

- 21a. Use of relative path is generally preferred over absolute paths in markup. T/F?
- 21b. Why or why not? _____
- 22. Good markup practices involve annotating the semantic meaning and formatting contents of a webpage. T/F?

Highlights on Markup

You should also understand differences between:

- Elements, contents, tags
- Empty tag vs. closed tags
- Syntax of attribute specification
- Block vs. inline tags
 - E.g. div vs. span
 - Understand:
 - what their behaviours are
 - when they should be used

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Quick review of CSS syntax

Syntax*:

*http://www.w3schools.com/css/css syntax.asp

A CSS rule set

Selector(s): HTML element(s) that you want to style

Examples:

```
ol, ul{
font-family: sans-serif;
font-weight: 100;
} A rule set for ol and ul tags

p {
text-align: center;
}
```

Another rule set for p

Highlights on CSS

- 3 ways to add styles to your markup:
- 1. Inline
- 2. In the header
- 3. External style sheet

You need to understand how they are different...

Highlights on CSS

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Highlights on CSS

- 3 ways to add styles to your markup:
- 1. Inline
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second_page.html

my_style.css

p

- 23. What does "C" in CSS stand for? ______
- 24. Every style rule consists of at least one selector, attribute, and value. T/F?
- 25. Inline styling are always preferred over external CSS because it offers higher specificity scores. T/F?
- 26. Every CSS declaration consists of a property and a selector. T/F?
- 27. Two declarations must be separated by a colon. T/F?
- 28. Shorthand style rules are preferred. T/F?
- 29. The code p > p allows one to select all nested paragraph tags. T/F?

```
30. The following is valid. T/F?
    h1, p, ol > li {
        font-family: "Times New Roman" sans-serif;
        colour: red;
}
```

31. Consider these style rules:

```
div#menu { font-family: serif; }
    #menu { font-family: serif; }
```

The second rule will override the first one because it comes after it. T/F?

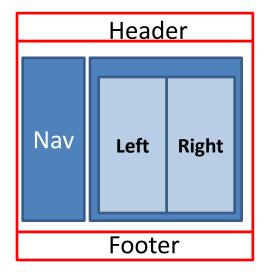
32. To change the background color of body, we can use the color property?

33. Write the **shorthand** version for this style rule:

```
p {
    border-style: solid;
    border-color: red;
    border-width: 5px;
}
```

1 min.

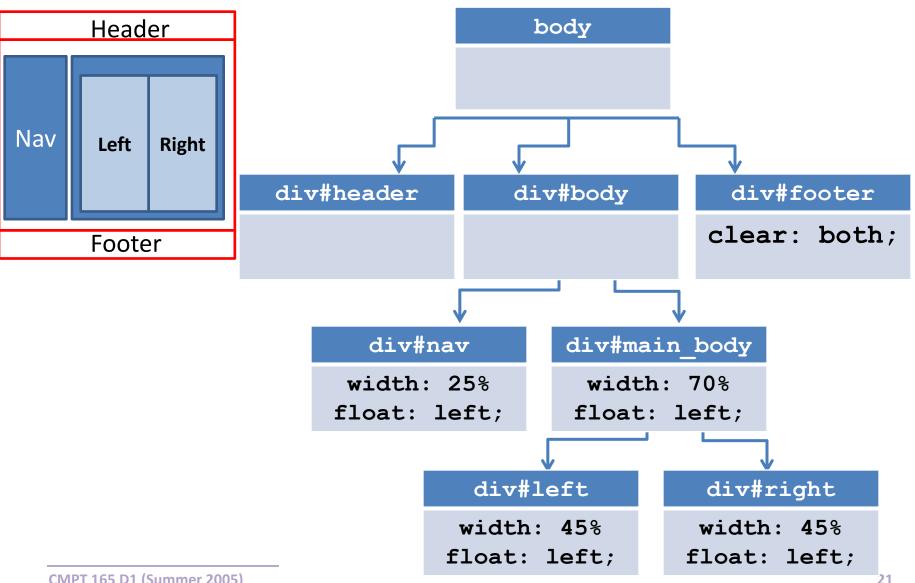
34. Draw the tree diagram for a webpage that looks like this:



Notes:

- Use divider tags only with these id's:
 Header, Footer, Nav, Left, Right
- Box A inside box B indicates that box A is a child of box B.

Answer



Also review...

• 3 approaches to position elements: what are these?

And know what these refer to:

z-index

Clear

Float

+

>

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On Graphics

35. Monochrome can only give grayscale color images? T/F

36. Dithering is a method to reduce file size?

37. SVG stands for Style Vector Graphics? T/F

38. JPEG, PNG, GIF all support animation? T/F

39. *Rasterization*: process of converting images from bitmap to vector graphics. T/F?

On Graphics

- 40. SVG files contain markup and can be compressed.
- 41. Many software like GIMP allows you to edit pixels of SVG images. T/F?
- 42. The position of a pixel is referred to as ______.
- 43. The opacity of a pixel can be stored in 2 ways. Which 2 ways?
- 44. The more opaque an element is, the more transparent it is. T/F?

Review your notes on graphics

Image resolution

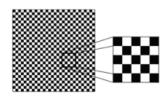
Pixel, bits, unit of bytes Intensity vs. coordinates

Color-depth

Monochrome, 8-, 16-, 24-bit, etc.

Dithering

How & Why

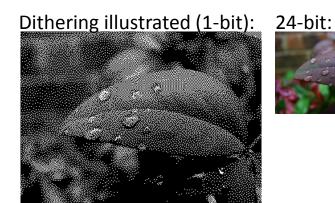


Compression

Lossy vs lossless

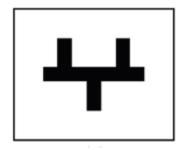
Transparency

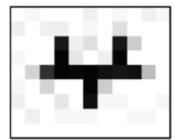
Opacity, transparency, alpha channel

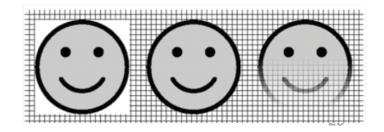












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On colors

- 45. Orange is considered a cool color, as opposed to warm color.

 T/F

 46. Which color does FF in the hex code #00FF55 represent?

 47. #00FF55 is the same as #0F5?

 T/F
- 48. #FEFEFE and #FFF refer to the same color? T/F
- 49. #1A0000 is brighter than #A10000?
- 50. What does the following style rule specify?

Ans: _____

51. Value in HSV model stands for the intensity of a color?

T/F

52. What should the X,Y, Z values be in the following to specify white color?

Ans: _____

Again, review both study guide & all related lecture slides.

Good luck with your midterm next week!

