CMPT 165 Advanced XHTML + CSS – Part 1

June 3rd, 2015

Today's Agenda

- CSS reviewed
- Unit 4:
 - id vs. class
 - Classifying elements: blocks vs. inline
 - More markup tags
 - <div>
 -

"Style rules" vs. "Attribute specification"

Style declaration in CSS:

```
p {
    text-align: center;
    font-size: 1.5em;
}
    declaration
rule
```

Attribute specification in markup:

```
...
...
```

CSS Level 1

Style support for:

- Color of element text, backgrounds, etc.
- Alignment of elements (text, images, etc.)
- Text formatting: e.g. spacing of words, letters, lines
- Font properties: typeface and emphasis
- Boxing: margin, border, padding, and positioning
- Unique identification: id
- Generic classification: explained later

Margin, padding, border (review)

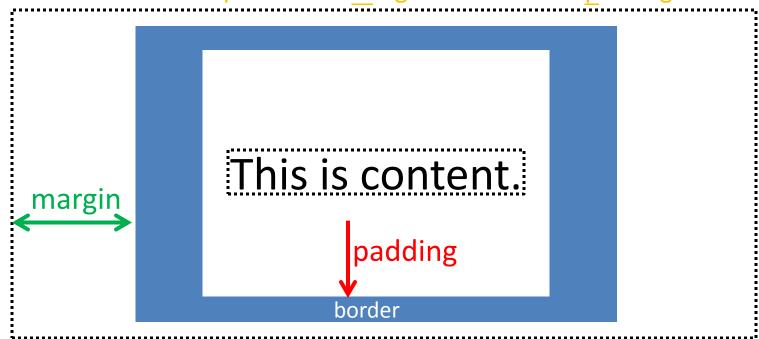
Content - Content of the box, where text and images appear

Margin - Clears an area outside the border; transparent

Border - A border that goes around the padding and content

Padding - Clears an inner area around the content; transparent

"m" before "p" → outer margin before "inner padding"



CSS Level 1

Style support for:

- Color of element text, backgrounds, etc.
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- Text formatting: e.g. spacing of words, letters, lines
- Font properties: typeface and emphasis
- Boxing: margin, border, padding, and positioning
- Unique identification of elements: id
- Generic classification of elements: explained later

```
p {
font-family: sans-serif
}
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jjf jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

```
 Q1: Gfe dsf sdf? 
 A1: dsf jjf jsf.
 Q2: Fsjf jsadf? 
 A2: Sbjffa al eef. 
 Q3: Msjf jsadf? 
 A3: Pbjff. La al.
```

```
p {
font-family: sans-serif
}
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jjf jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

```
p {
font-family: sans-serif
}
#q1{ font-style: bold; }
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jif jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

```
 Q1: Gfe dsf sdf? 
 A1: dsf jjf jsf.
 Q2: Fsjf jsadf? 
 A2: Sbjffa al eef. 
 Q3: Msjf jsadf? 
 A3: Pbjff. La al.
```

```
p {
font-family: sans-serif
}
#q1{ font-style: bold; }
#q2{ font-style: bold; }
#q3{ font-style: bold; }
#q4{ font-style: bold; }
#q5{ font-style: bold; }
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jjf jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

A3: Pbjff. La al.

If you have 5 questions?

An alternative: group into single declaration

```
 Q1: Gfe dsf sdf? 
 A1: dsf jjf jsf.
 Q2: Fsjf jsadf? 
 A2: Sbjffa al eef. 
 Q3: Msjf jsadf? 
 A3: Pbjff. La al.
```

```
p {
font-family: sans-serif
}
#q1,#q2,#q3,#q4,#q5{
font-style: bold;
}
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jjf jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

A3: Pbjff. La al.

If you have 5 questions?

An alternative: group into single declaration

```
 Q1: Gfe dsf sdf? 
 A1: dsf jjf jsf.
 Q2: Fsjf jsadf? 
 A2: Sbjffa al eef. 
 Q3: Msif jsadf? 
 A3
       What if you have
          1000 Q's?
Q1: 🔇
A1: dsf jjf jst.
Q2: Fsjf jsadf?
A2: Sbjffa al eef.
Q3: Msjf jsadf?
A3: Pbjff. La al.
```

```
p {
font-family: sans-serif
}
#q1,#q2,#q3,#q4,#q5{
font-style: bold;
}
```

Solution: class

```
 Q1: Gfe dsf sdf? 
 A1: dsf jjf jsf.
 Q2: Fsjf jsadf? 
 A2: Sbjffa al eef. 
 Q3: Msjf jsadf? 
 A3: Pbjff. La al.
```

```
p {
font-family: sans-serif
}
.q{
font-style: bold;
}
```

Browser:

Q1: Gfe dsf sdf?

A1: dsf jjf jsf.

Q2: Fsjf jsadf?

A2: Sbjffa al eef.

Q3: Msjf jsadf?

id, class attributes

id attribute

Instantiate:

```
H
```

Reference:

```
#name of id
```

class attribute

Instantiate:

```
<h1 class="class name">H</h1>
```

Reference:

.class name

Anchoring in html:

```
<a href="#name_of_id">top</a>
```

Styling in CSS:

```
#name_of_id {
     color: red;
}
```

Styling in CSS:

```
.class_name {
    color: red;
}
```

id vs. class?

"Class vs. id" explained:

- There are many students in a class
- There is a unique ID for every student

Usage:

- When some visual properties need to be reapplied, use class
- If an element has some unique property, use id

Side note

```
Use underscore in place of white spaces
e.g.
                       "my_first_exercise.html"
e.g.
                       "my first exercise.html"
                                 URL:
                   my%20first%20assignment.html
e.g.
                        my-first-exercise.html
                     ... but not as easy to read(?)
```

Today's Agenda

- CSS reviewed
- Unit 4:
 - id vs. class
 - Classifying elements: blocks vs. inline
 - More markup tags
 - <div>
 -

Key elements learned so far

Block

>

<h1>

<hr>

<blook
quote>

<0|>

ul>

<

Inline

<i>>

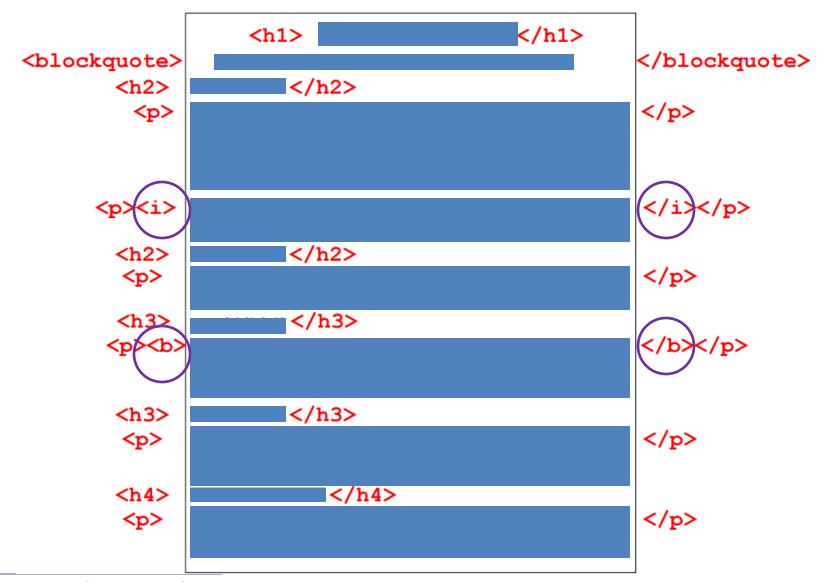
<cite>

<tt>

<sub>

<sup>

Block vs. inline elements



Block vs. Inline elements

Block

Nature: structural

Guidelines:

- Can contain inline elements

- Can be inside another block element
- Not inside an *inline* element!

Behaviour (without using style rules):

- –Expands across the page
- –Drop below other elements

Inline

Nature: used along with text

Guidelines:

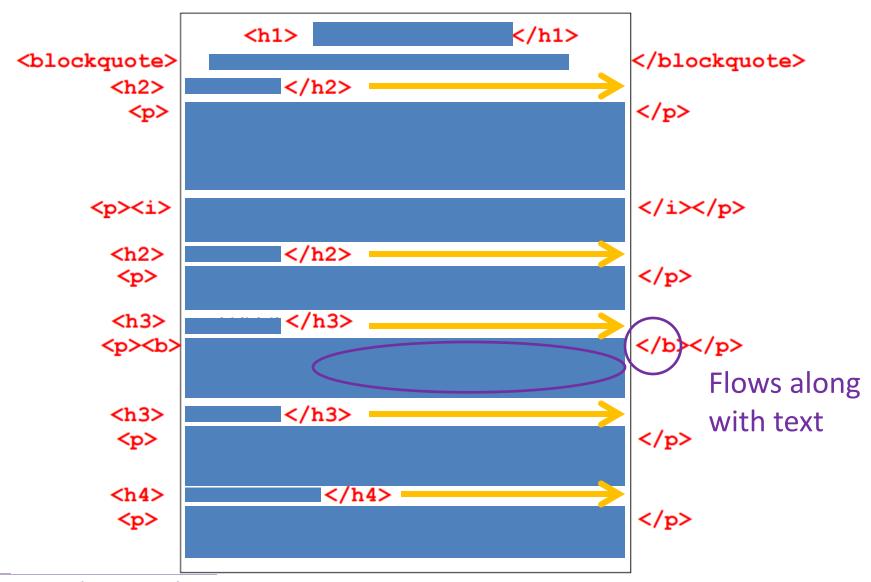
- Usually can contain another inline element

Usually must be inside block elements!i.e. Cannot be directly inside <body>

Behaviour (without using style rules):

Flows along with text

Expands across the page Next element is forced to next line



Elements

<u>Block</u> <u>Inline</u>

>

<h1>

<hr>

<blook>

<0|>

ul>

<|i>

<i>>

<cite>

<tt>

<sub>

<sup>

<a>?

Exceptions

- Anchor tag
 - An inline element (flows along with text)
 - But:
 - Can be placed directly in the body!
 - <a> cannot contain another <a>
- Paragraph, header tags
 - Cannot be placed in within each other; wrong:

$$<$$
p $>$ Abcdefg $<$ /p $><$ /p $>$

— Its content must be an inline element; wrong:

must contain other elements

Key elements learned so far...

Block

>

<h1>

<hr>

<blook
duote>

<0|>

<

Inline

<i>>

<cite>

<tt>

<sub>

<sup>

<abbr>

<abbr> tag

Inline elements:

<abbr title="HyperText Markup Language">HTML</abbr>

- Provides a form of interaction
- Nice way of separating high and low level information
- Omitting the title attribute will not give error!
 - But you should not omit it!



Elements

Block

>

<h1>

<hr>

<blook
quote>

<0|>

ul>

<|i>

<div>

Inline

<i>>

<cite>
<a>
<tt><a>

<abbr>

<sub>

<sup>

Generic Tags

- <div> division
- Generic block element
- Used to divide a webpage into related parts

- span
- Generic inline element
- Mostly used to style a specific parts of content

 illustrated

Lorem ipsum dolor sit amet, cum ea periculis complectitur, ex quo option alienum. *Ex tale temporibus mei, graeco fuisset omittam an vel, sed ex brute decore*. Ea putant fuisset patrioque eum, atqui integre vivendum cum ex, cu sea sadipscing neglegentur. Mea ne wisi commodo, his eu. No decore voluptua nam.



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integre vivendum cum ex, cu sea sadipscing
neglegentur. Mea ne wisi commodo, his eu. No decore
voluptua nam.

```
.cool_quote{
    font-family: serif;
    color: #33b;
    font-weight: bold;
    font-style: italic;
}
```

Generic Tags

- <div> division
- Generic block element
- Used to divide a webpage into related parts

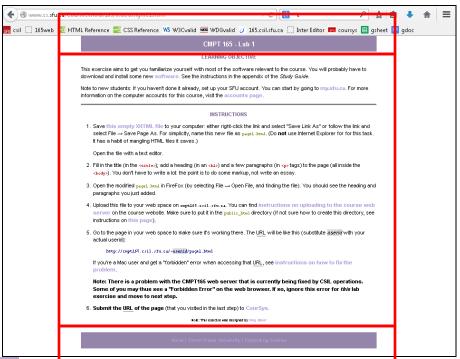
- span
- Generic inline element
- Mostly used to style a specific parts of content

<div> uses

(Very powerful tool, but don't abuse usage; complicated markup → difficult to maintain)

Separate a page into logical sections

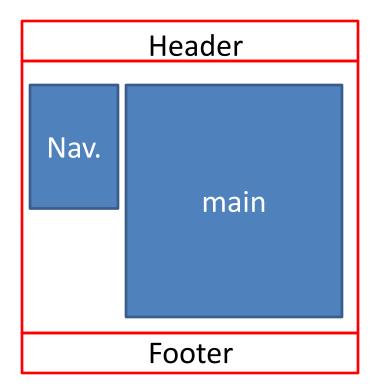
Typical use:



<div> uses

(Very powerful tool, but don't abuse usage; complicated markup → difficult to maintain)

- Separate a page into logical sections
- Typical use:

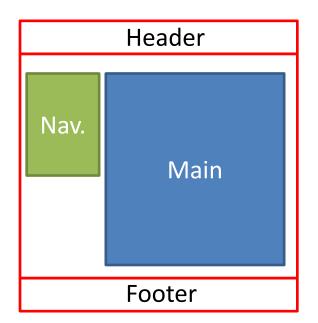


<div> illustrated

Header Body Footer

```
<div id="header">
     <h1> My Heading </h1>
</div>
<div id="body">
   This is body paragraph1.
   This is body paragraph2.
   This is body paragraph3.
   This is body paragraph4.
   This is body paragraph5.
</div>
<div id="footer">
     Copyright goes here.
</div>
```

<div> illustrated



```
<div id="header"> <!-- divider 1 -->
   <h1> My Heading </h1>
</div>
<div id="body"> <!-- divider 2 -->
     <div id="nav"> <!-- subdivider#1 -->
          <111>
          <a href="index.html">Home</a>
          <a href="me.html">About me</a>
          <a href="notes.html">My course notes</a>
          <a href="contact.html">Contact</a>
          </div>
     <div id="main body"> <!-- subdivider#2 -->
          Lorem ipsum dolor sit amet, cum ea periculis
          complectitur, ex quo option alienum. Ex tale
          temporibus mei, graeco fuisset omittam an vel, sed ex
          brute decore. Ea putant fuisset patrioque eum, atqui
          integre vivendum cum ex. Ea putant fuissetr. Mea ne
          wisi commodo, his eu. No decore voluptua nam.
          Som ipsucomplectitur, ex quo option alienum. <i
          style="font-color;blue;"> Ex tale temporibus mei,
          graeco fuisset omittam an vel, sed ex brute decore.
          </i> Ea putant fuisset patr his eu. No decore
          voluptua nam.
     </div>
</div>
<div id="footer"> <!-- divider 3 -->
        Copyright goes here.
</div>
```

<div>illustrated

```
/* general styling */
div {
     padding: .01%;
     background-color: #afa;
      border: #5b5 solid .2em;
      margin: .01%;
}
#body {
      height: 50%;
/* specific items */
#header, #footer{
      text-align: center;
      clear: both;
}
#nav {
      width: 15%;
      float: left;
      min-height: 20em;
}
#main body {
     width: 82%;
      float: left;
      min-height: 20em;
```

```
<div id="header"> <!-- divider 1 -->
   <h1> My Heading </h1>
</div>
<div id="body"> <!-- divider 2 -->
     <div id="nav"> <!-- subdivider#1 -->
          <111>
          <a href="index.html">Home</a>
          <a href="me.html">About me</a>
          <a href="notes.html">My course notes</a>
          <a href="contact.html">Contact</a>
          </111>
     </div>
     <div id="main body"> <!-- subdivider#2 -->
          Lorem ipsum dolor sit amet, cum ea periculis
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          graeco fuisset omittam an vel, sed ex brute decore.
          </i> Ea putant fuisset patr his eu. No decore
          voluptua nam.
     </div>
</div>
<div id="footer"> <!-- divider 3 -->
        Copyright goes here.
</div>
```

Important elements covered so far...

Block

>

<h1>

<hr>

<blook>

ul>

<|i>

<div>

Inline

<cite>

<sub>

<sup>

<a>>

<abbr>

