# CMPT 165 Advanced XHTML + CSS – Part 3

June 5<sup>th</sup>, 2015

# Today's agenda

- More on:
  - class
  - <div> and <span> tags

Positioning elements

# Why class?

```
<01>
  <1i>>
    What is 1+1?
    Ans: 2
  <1i>>
    What is 2+2?
    Ans: 4
  <1i>>
    What is 3+3?
    Ans: 6
  1. What is 1+1?
Ans: 2
       2. What is 2+2?
                 Ans: 4
       3. What is 3+3?
                 Ans: 6
```

```
body {
    font-family: monospace;
}

.q {
    font-weight: bold;
}

.a {
    color: blue;
    text-indent: 10em;
}
```

How would the styles render in the browser window?

### More on class

- id vs. class?
- id names must be unique in each webpage

```
<h1 id="key">A heading</h1>
A paragraph
```

Q: Can we reuse names of class for different elements? e.g.

```
<h1 class="key">A heading</h1>
A paragraph
<div class="key">A divider</div>
```

### Class by context

```
h1 { color: #a5a; }
<h1_class="kev">A heading</h1>
A paragraph
                                  body { font-family: sans-serif; }
<div class="key">A divider</div>
                                  h1.key {
                                      color: green;
                                  p.key {
                                      color: blue;
                                  div.key {
                                      color: red;
A heading
A paragraph
A divider
```

### More on class

- id vs. class?
- id names must be unique in each webpage

```
<h1 id="key">A heading</h1>
A paragraph
```

Q: Can we reuse names of class for different elements? e.g.

```
<h1 class="key">A heading</h1>
A paragraph
<div class="key">A divider</div>
```

### A: Yes!

### A heading

### Heading2

This is a sentence.

This is another sentence.

```
<body>
                                           body {
   <h1 id="h1a">Heading A</h1>
                                              font-family:sans-serif;
                                              color: blue;
   <h1 id="h1b" class="key">Heading B</h1>
                                           }
                                           h1 {
   This is a sentence.
                                              color: #a5a;
   This is another sentence.
                                           h1.key{
                                              color: red;
</body>
                               body
             h1
                         h1
                                      p
```

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```
body {
<body>
   <h1 id="h1a">Heading A</h1>
                                              font-family:sans-serif;
                                              color: blue;
   <h1 id="h1b" class="key">Heading B</h1>
                                           }
                                           h1 {
   This is a sentence.
                                              color: #a5a; }
                                           h1.key{
   This is another sentence.
                                              color: red;
</body>
                               body
           h1#h1a
                      h1#h1b.key
                                    p#p1
                                                p#p2
```

```
body {
<body>
   <h1 id="h1a">Heading A</h1>
                                                  font-family:sans-serif;
                                                  color: blue;
   <h1 id="h1b" class="key">Heading B</h1>
                                               }
                                               h1 {
   This is a sentence.
                                                  color: #a5a; }
                                               h1.key{
   This is another sentence.
                                                  color: red;
</body>
                                 body
                                font-family:
                                sans-serif;
                                color: blue;
            h1#h1a
                        h1#h1b.key
                                        p#p1
                                                    p#p2
           color: #a5a;
                         color: red;
```

CMPT 165 D1 (Summer 2005)

```
body {
<body>
   <h1 id="h1a">Heading A</h1>
                                                    font-family:sans-serif;
                                                    color: blue;
   <h1 id="h1b" class="key">Heading B</h1>
                                                }
                                                h1 {
   This is a sentence.
                                                    color: #a5a; }
                                                h1#h1a{
   This is another sentence.
                                                    color: red;
</body>
                                  body
                                font-family:
                                            Cascading effect
                                sans-serif;
                                color: blue;
                                            Cascading Style Sheet
                                h1{color:#a5a}
                        h1#h1b.key
            h1#h1a
                                         p#p1
           h1{color: #a5a}
                          color: red;
                                       font-family:
                                       sans-serif;
                                       color: blue;
```

CMPT 165 D1 (Summer 2005)

### More on class

### Q: Can an element belong to multiple classes?

<h1 class="class dgreen class fantasy">Hello!</h1>

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.

Nullam aeterno
liberavisse nec id. Doming efficiendi liberavisse no pri.
Per ea alterum expetenda sententiae, quo et rebum
nominati dissentiunt, quis dice doming efficiendi
liberavisse no pri. Per ea alterum expetenda sententiae,
quo et rebum nominati dissentiunt, quis dice.

```
h1 { color: #a5a; }
body { font-family: sans-serif; }
.class serif
    font-family: serif;
.class dgreen
    color: #030;
.class dred
    color: #600;
.class fantasy
font-family: Impact, fantasy;
```

# Today's agenda

- More on:
  - class
  - <div> and <span> tags

Positioning elements

### **Generic Tags**

- <span> span
- Inline
- Mostly used to style specific parts of content

- <div> division
- Block
- Used to divide a webpage into related parts

### Why span?

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.

### Option1:

Lorem ipsum dolor sit amet, cum ea periculis
complectitur, ex quo opon alie dsfafas faf sfafsaf anum.
<span class="cool\_quote"> Ex tale temporibus mei, graeco
fuisset omittam an vel, sed ex brute decore. </span> Ea
putant fuisset patrioque eum, atqui 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;
}
```

### Option2:

Lorem ipsum dolor sit amet, cum ea periculis
complectitur, ex quo opon alie dsfafas faf sfafsaf anum. <i
style="font-style:italic;color: blue; font-weight:bold;
font-family:serif"> Ex tale temporibus mei, graeco fuisset
omittam an vel, sed ex brute decore. </i> Ea putant fuisset
patrioque eum, atqui integre vivendum cum ex, cu sea
sadipscing neglegentur. Mea ne wisi commodo, his eu. No
decore voluptua nam.

### Option2:

- Cannot reuse styles
- More cluttered
  - → Harder to maintain
- More characters
  - → Larger file size

### **Generic Tags**

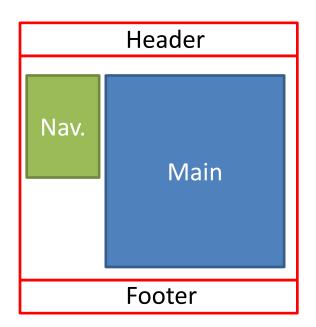
- <span> span
- Inline
- Mostly used to style specific parts of content

- <div> division
- Block
- Used to divide a webpage into related parts

### <div> uses

# Header Body Footer

### <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>
```

### Nothing happens???

### ...Generic: you need to specify

```
<div id="header"> <!-- divider 1 -->
   <h1> My Heading </h1>
</div>
<div id="body"> <!-- divider 2 -->
     <div id="nav"> <!-- subdivider#1 -->
<u1>
<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.
```

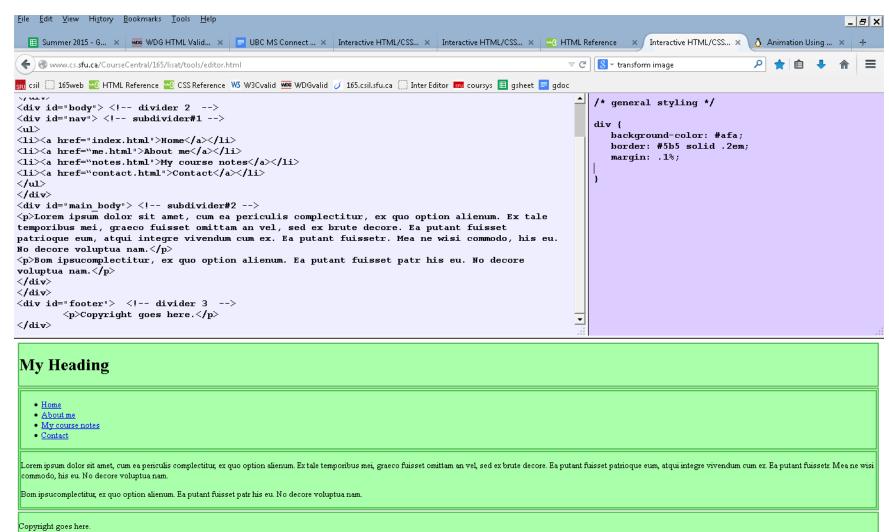
### My Heading

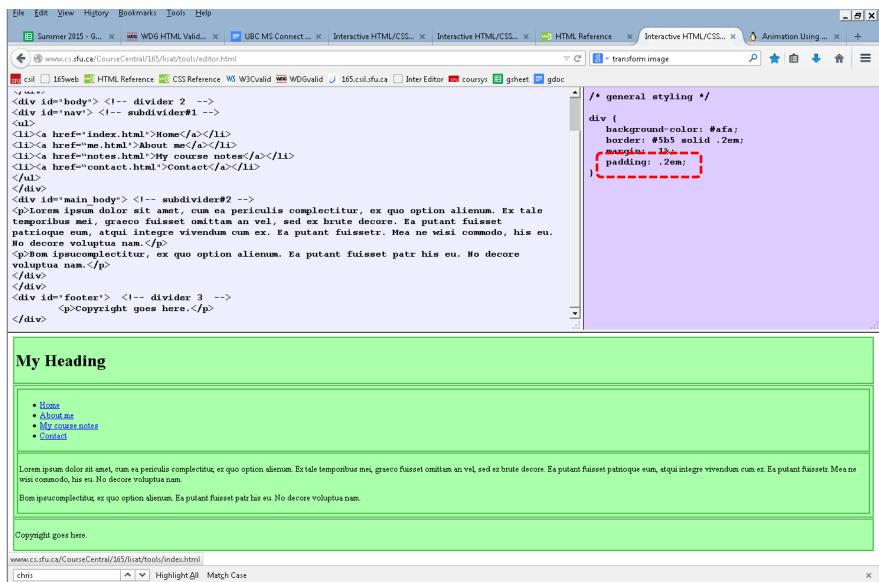
- Home
- About me
- My course notes
- Contact

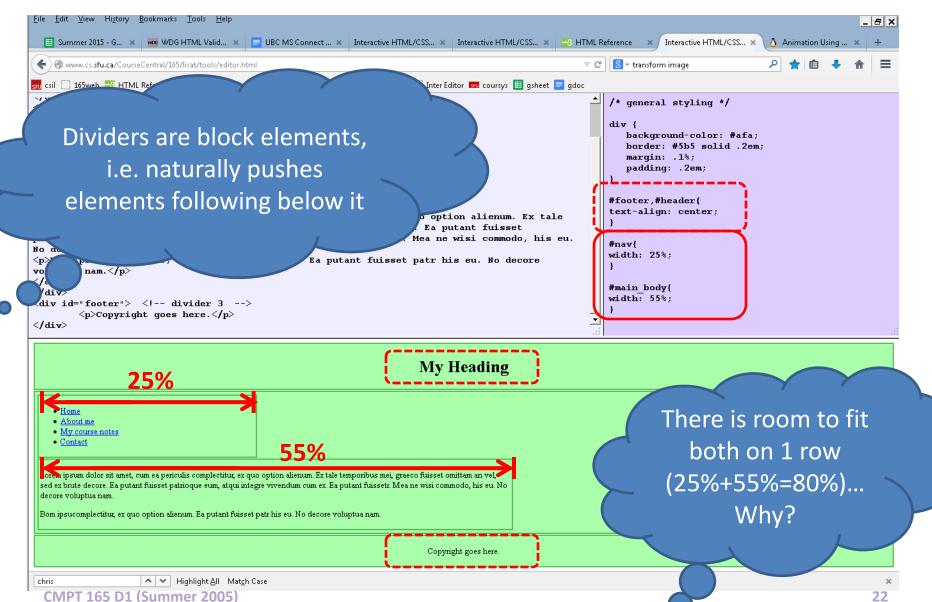
Lorem ipsum dolor sit amet, cum ea periculis complectitur, ex quo option alienum. Ex tale temporibus mei, graeco fuisset omittam an vel, sed ex brute decore. Ea putant fuisset patrioque eum, atqui integre vivendum cum ex. Ea putant fuissetr. Mea ne wisi commodo, his eu. No decore voluptua nam.

Born ipsucomplectitur, ex quo option alienum. Ex tale temporibus mei, graeco fuisset omittam an vel, sed ex brute decore. Ea putant fuisset patr his eu. No decore voluptua nam.

Copyright goes here.





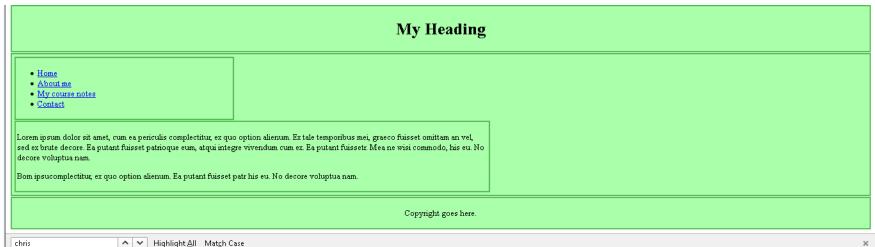


# The "float" property

Allows browser to optimize location of elements

Element can float but stay to the "left", "right", etc.

```
div {
         float: left;
```



### The "float" property

### Allows browser to optimize location of elements

• Element can float but stay to the "left", "right", etc.

```
/* general styling */
<div id="header"> <!-- divider 1 -->
   <h1> My Heading </h1>
                                                                                                        div {
                                                                                                           background-color: #afa;
                                                                                                           border: #5b5 solid .2em;
<div id="body"> <!-- divider 2 -->
                                                                                                           margin: .1%;
<div id="nav"> <!-- subdivider#1 -->
                                                                                                           padding: .2em;
<l
<a href="index.html">Home</a>
<a href="me.html">About me</a>
                                                                                                         #footer, #header {
<a href="notes.html">My course notes</a>
                                                                                                         text-align: center;
<a href="contact.html">Contact</a>
</div>
                                                                                                        #nav {
                                                                                                        width: 25%
                                                                                                                  float: left:
<div id="main body"> <!-- subdivider#2 -->
<h2>Subheading</h2>
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
                                                                                                         #main body
                                                                                                        width: 55%
putant fuissetr. Mea ne wisi commodo, his eu. No decore voluptua nam.
</div>
</div>
Zdiv id-"footer"\ Zl__ divider 3 __\
```



Floats toward left side, next to existing elements

### The "clear" property

```
<div id="header"> <!-- divider 1 -->
   <h1> My Heading </h1>
</div>
<div id="body"> <!-- divider 2 -->
<div id="nav"> <!-- subdivider#1 -->
ul>
<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 -->
<h2>Subheading</h2>
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.
</div>
</div>
Zdiv id-"footor"\ Zl== divider 3 ==\
```

```
/* general styling */
div {
   background-color: #afa;
   border: #5b5 solid .2em;
   margin: .1%;
   padding: .2em;
#footer, #header{ -
text-align: center; clear: both;
#nav {
width: 25%; float: left;
#main body{
width: 55%: float: left:
```

### My Heading



### Subheading

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.

Born ipsucomplectitur, ex quo option alienum. Ea putant fuisset patr his eu. No decore voluptua nam.

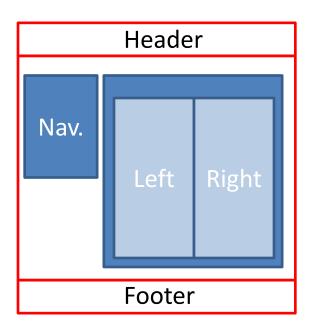




### clear property: clears up space on both sides

Without clear: My Heading Subheading · About me · My course notes Lorem insum 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 Bom ipsucomplectitur, ex quo option alienum. Ea putant fuisset patr his eu. No decore voluptua nam

### <div> uses





```
<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>
```

### **Summary**

- class
  - class selection by context
  - Elements with multiple classes
- Markup/style tree
- <div> and <span> tags revisited
- Positioning elements:
  - Properties: float, clear
- Exercise #4 posted after class

h1#h1a

h1{color:#a5a}

body

font-family:
sans-serif;
color: blue;
h1{color: #a5a}

h1#h1b.key
p#p1
p#p2

color: red;
font-family:
sans-serif;
sans-serif;

color: blue;

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color: blue;

# **Questions?**