

### Class 8: CSS Layouts

This class deals with using css layout properties.

#### Code concepts

- Advanced CSS selection: grouping, nesting
- Comments in HTML and CSS
- HTML: Block vs inline elements
- CSS properties: display, vertical-align
- CSS property: float
- 3 Column Layouts

#### Homework due next week:

- Assignment 8.1: Floats and layout
  - Assignment 8.2: Mockups v1
- 

### Advanced CSS Selection

#### Grouping

You can combine several selections by adding a comma in-between.

1. Applies style to both classes styleA and StyleB

```
.styleA, .styleB { ... }
```

#### Nesting

You can select items inside another selection by adding a space.

2. Selects all images inside id menu.

```
#menu img { ... }
```

```
<div id="menu">
```

```
  <img>
```

3. Selects class nav, within a div, within id menu.

```
#menu div .nav { ... }
```

```
<div id="menu">
```

```
  <div>
```

```
    <a class="nav">
```

## Class 8: CSS Layouts

## CSS Selection practice

Practice selecting parts of the following code using CSS selectors.

1. Select all menu items
2. Select only lunchtime menu items
3. Select only the cobb salad
4. Select the pepperoni pizza and bbq ribs
5. Select the paragraphs within dinner items
6. Select the chili image
7. Select all lunch menu items and the miso salmon item.

```
<div class="menu">

  <div class="lunch">
    <div class="menu-item" id="cheeseburger">
      <img >
      <p>Our Classic burger with American cheese melted on top.</p>
    </div>
    <div class="menu-item" id="cobb-salad">
      <img>
      <p>Garden greens topped with bacon, avocado, hard-boiled eggs and house dressing.</p>
    </div>
    <div class="menu-item" id="pepperoni-pizza">
      <img>
      <p>Thin-crust Pepperoni pizza.</p>
    </div>
  </div>

  <div class="dinner">
    <div class="menu-item" id="bbq-ribs">
      <img>
      <p>1/2 rack of juicy Texas-style ribs.</p>
    </div>
    <div class="menu-item" id="chili">
      <img>
      <p>A bowl of hearty chili.</p>
    </div>
    <div class="menu-item" id="miso-salmon">
      <img>
      <p>Pan-asian miso salmon served on a bowl of rice</p>
    </div>
  </div>
</div>
```

## Class 8: CSS Layouts

### Comments

Comments are parts of code that does not display on a page. Comments are simply notes to those looking at your code.

### HTML Comments

Text inside the dashes are hidden as comments. It helps to put at the beginning and end of large sections.

```
<!-- menu begin -->
<!-- menu end -->
```

### CSS comments

Like html comments, CSS comments help clarify code and provide notes to authors. Comments go between the slash and astrich.

```
/* padding pushes image right */
```

## Block vs Inline elements

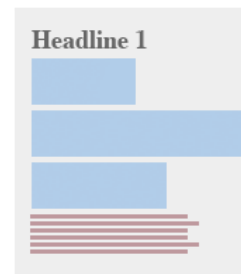
### Block-level elements

- Always begin on a new line
- Height, line-height and top and bottom margins can be manipulated
- Width defaults to 100% of their containing element, unless a width is specified
- Examples of block elements:

```
<h1></h1>
<p></p>
<div></div>
```

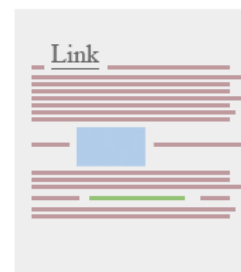
#### Block

```
<h1> Headline 1 </h1>
<div> Text text </div>
<div> Text text </div>
<div> Text text </div>
<p> text </p>
```



#### Inline

```
text <a href="">Link</a> text...
text <img src=""> text...
text <span></span> text...
```



### Inline elements

- Always begin on the same line.
- Height, line-height and top and bottom margins can't be changed
- Width is as long as the text/image and can't be manipulated
- Examples of inline elements:

```
<a href=""></a>
<img>
<span></span>
```

### CSS properties: display, vertical-align

- Change how an element is treated by changing the display property in CSS:
 

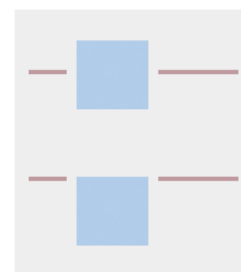
```
display: block;
display: inline;
```
- You can set the vertical alignment for text and objects around inline elements in CSS:
 

```
vertical-align: top;
```

#### Vertical-align

```
CSS:
img{vertical-align: top;}

HTML:
text <img src=""> text...
```



## CSS Property: Float

To get block elements to sit side-by-side, you can set it to float. Other content will flow around the floating item.

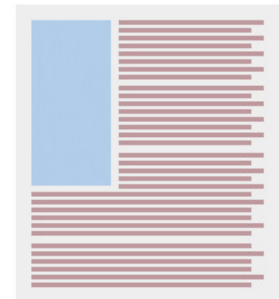
### In CSS:

```
float: none;  
float: left;  
float: right;
```

- You must specify the width the floated element.
- Margins of the floating element are maintained.
- Floating elements are treated as block elements.
- If there is more than one floating element within a container, the elements will be placed in order, from left to right, and then wrap down the page.
- Floating elements will not be placed higher than HTML content that comes before it.
- You can set an item to be clear of floated elements on both sides.  
`clear: both;`

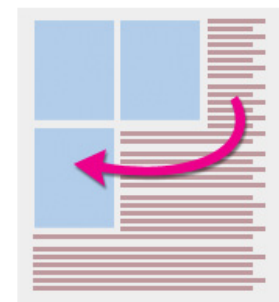
### Float left

```
<div>  
  <img style= "float: left;" />  
  <p>text</p>  
  <p>text</p>  
  <p>text</p>  
  <p>text</p>  
</div>
```



### Multiple floated images

```
<div>  
  <img style= "float: left;" />  
  <img style= "float: left;" />  
  <img style= "float: left;" />  
  <p>text</p>  
  <p>text</p>  
  <p>text</p>  
</div>
```



## 3 Column Layout

Practice creating this common layout using the float property:

- Divs (floating the 3 columns to the left)

```
#header, #footer{ clear: both;}  
.col{ float: left; }
```

```
<div id="header"></div>
```

```
<div class="col"></div>  
<div class="col"></div>  
<div class="col"></div>
```

```
<div id="footer"></div>
```

### 3 Column Layout

header

3 columns

footer

