### Week Four: CSS Boxes & Positioning

#### The Div & the ID

**Div tags:** where <div> is short for division, are the basic tags you will use to group your content into logical components

```
<div id="logo">
     <a href="http://www.premiumdw.com/">
        <img src="images/flameLogo.gif" alt="Premium Design Works" />
        </a>
</div>
```

ID's: are the means to control each <div> tag of logical components via the style, selected by the #

```
#logo {
   width: 300px;
   height: 60px;
   margin-top: 0px;
}
```

- only one instance of an ID can be used per page
- used to identify a unique piece of your page's markup; logo, navigation, etc.
- used to identify and enable a specific target for a JavaScript function

#### The Box Model - p. 103, fig. 4.2

- every element you create in your markup produces a "box" on the page
- by default the border of the box is not visible and the background is transparent
- by giving borders and colors to your boxes, you will see the "box model" in effect

Borders: you can set the thickness, style and color of your border - p. 104, fig. 4.3

```
#borders {
   border-width: 2px;
   border-style: solid;
   border-color: #85898A;
}
```

- 1) Border-Width: you can set the thickness of your border via: thin, medium, thick or any unit
- **2) Border-Style:** you can set the style of the border via: *none*, *hidden*, *dotted*, *dashed*, *solid*, *double groove*, *ridge*, *inset* and *outset*
- 3) Border-Color: you can set the color of each border via: RGB, hexadecimal or keyword

Border-Shorthand: you can write the border declaration with shorthand; width, style, color

```
#copy img {
   border:1px solid #F20017;
}
```

Padding: will allow you to set the space between the box's content and the border of the box – p. 106, fig. 4.4

```
#padding {
   padding-top: 10px;
   padding-right: auto;
   padding-bottom: 10px;
   padding-left: auto;
}
```

- 1) Padding -Top: allows you to set the distance from the top of your "box" to adjacent elements in units
- 2) Padding -Right: allows you to set the distance from the right of your "box" to adjacent elements in units
- Padding -Bottom: allows you to set the distance from the bottom of your "box" to adjacent elements in units
- 4) Padding -Left: allows you to set the distance from the left of your "box" to adjacent elements in units

Margins: will allow you to set the distance between this "box" and the adjacent elements - p. 107, fig. 4.6

```
#margins {
    margin-top: 10px;
    margin-right: auto;
    margin-bottom: 10px;
    margin-left: auto;
}
```

- Margin-Top: allows you to set the distance from the top of your "box" to adjacent elements in numerical and percentage units
- 2) Margin-Right: allows you to set the distance from the *right* of your "box" to adjacent elements in numerical and percentage units or auto units
- 3) Margin-Bottom: allows you to set the distance from the bottom of your "box" to adjacent elements in numerical and percentage units
- 4) Margin-Left: allows you to set the distance from the left of your "box" to adjacent elements in numerical and percentage units or auto units

Margins & Padding Defaults: each browser has a default margin and padding to the page and its elements, so it is a good idea to set your own to zero

```
* {
    margin: 0;
    padding: 0;
}
```

• by using the \* selector, we are specifying "all" elements

Margins & Padding Shorthand: by using the shorthand method you can combine all margin and padding properties into one declaration

```
#shorthand {
   margin: 5px 10px 5px 10px;
   padding: 10px 5px 10px 5px;
}
```

• when using shorthand, you will write your values clockwise; top, right, bottom, left

Collapsing Margins: vertical margins will "collapse" when there are both top and bottom margins horizontal margins do not

 when top and bottom margins meet, they overlap until one of the margins touches the border of the other element

• the larger of the two will override – p. 108, fig. 4.8

### **Block & Inline Properties**

**Block:** elements, such as , <h1>, and <div> sit one above another when displayed in the browser window

Inline: elements such as <span> , <img> sit side by side when displayed in the browser window

### **Positioning Elements**

Static Positioning: with *static* positioning, each element is simply laid out on the page one-by-one as it is written in the code -p. 112, fig. 4.13

- static positioning is the default type of positioning
- to override static positioning, you will need to specify either relative, absolute or fixed positioning

## Float & Clear Properties

Float: the *float* property is primarily used to flow text around images – p.117, fig. 4.18

```
img {
  float:left;
  margin:0 4px 4px 0;
}
```

• in order for the float property to work properly, you must write, in you code, the element to be floated before the element that wraps around it

```
<img src="../ch1_xhtml/stylin_logo1.gif" width="150" height="80" />
Here is a paragraph of text. It wraps around the image because the image's float property is set to left.
```

Clear: the clear property is used to override the float property - p.119, fig. 4.20 & p.121, fig. 4.21

```
p {
    margin:0 0 10px 0;
    }

img {
    float:left;
    margin:0 4px 4px 0;
    }

.clearthefloats {
    clear:both;
    }
```

# **Absolute Layouts**

**Absolute Positioning:** will allow you to put your boxes anywhere on the page by means of a *top* and *left* coordinate

```
#logo {
    width: 500px;
    position: absolute;
    top: 25px;
    left: 50px;
}
```

**Position:** by giving the *position* property a value of *absolute*, you are specifying that the rule will adhere to a position that you specify on the page

Top: the top property will say how many pixels down from the top of the page that your box will sit

Left: the left property will say how many pixels across from the left of the page that your box will sit