



#### **Activity: HTML Warm-up**

In this activity, you will create a simple HTML bio page to serve as a personal info.



#### Activity: Inspect Hello, HTML

On your own, create a simple bio page for yourself using the following HTML elements...

- Header that will store your name inside of it
- An image that will act as a stand-in for your picture with an alt attribute which gives a very basic description of the image
- Two paragraphs that will have text describing who you are
- An unordered list of links that connect to your social media pages
- A table that will contain three columns and some data on your favorite movies, songs, books, or activities

#### Hints:

Dummy images can be found at lorempixel.com and dummy text can be found at lipsum.com. Focus on getting the entire page working before diving into more specific text and images.

#### Bonus:

 Look into how one might go about linking one custom-made HTML page to another. Once you have found out how, try creating a link from your bio page you have just created to one of the pages you created last class.



Time's Up! Let's Review.

#### CSS: Cascading Style Sheets Introduction to Basic CSS Styling

• CSS describes how and where elements should appear on the page. It defines things such as color, placement, fonts, sizes, and more.



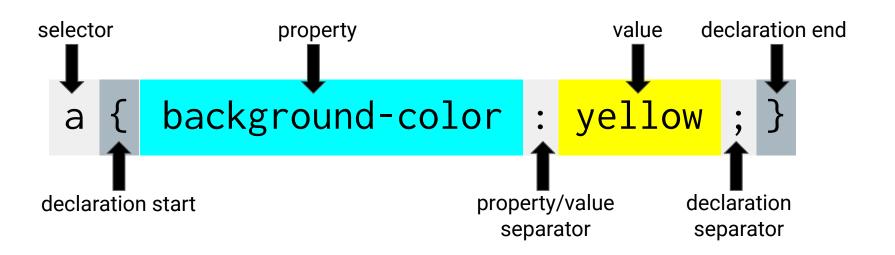


# Introduction to Basic CSS Styling

HTML Alone	HTML and CSS
Like writing papers in Notepad.	Like writing papers in Microsoft Word.
Used to write unformatted text (i.e, content only).	Used both to write the content <i>and</i> format it (color, font, alignment, layout, etc.).
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#### Introduction to Basic CSS Styling

- CSS works by hooking onto selectors added into HTML using classes and identifiers.
- Once hooked, we apply styles to those HTML elements using CSS.





Instructor Demonstration Introduction to Basic CSS Styling





#### **Activity: Dull Corp**

In this activity, you will be updating the *DULL Corporation's* website so that it is not nearly so...Dull. To do so, you will be creating an external stylesheet and linking it to pre-made HTML.



### Activity: Dull Corp

- Open the Unsolved Starter.
- Using external CSS and your imagination, update the "DULL Corp" website to be more interesting.
  - Center the header element to the page.
  - Set each h1,h2, and h3 element to be a different color.
  - Set img element to have a shadow.
  - Give the section element a background color.
  - Change the font size of both paragraph elements.
  - Place a border around the ul element.



Time's Up! Let's Review.

### Classes, IDs, and Divs

To create an HTML class, place a class="((className))"

```
<style type="text/css">
    .bigHeader{
     font-size: 40px;
    .smallerHeader{
     font-size: 20px;
    .tinyHeader{
     font-size: 10px;
 </style>
</head>
<body>
 <h1 class="bigHeader">Awesome Header</h1>
 <h1 class="smallerHeader">Smaller Awesome Header</h2>
 <h1 class="tinyHeader">Even Smaller Header</h3>
```

### Classes, IDs, and Divs

• To create an HTML id, place an id="((idName))" attribute within an HTML element.

```
#blueText {
     color: blue;
   #redText {
     color: red;
   #purpleText {
     color: purple;
 </style>
</head>
<body>
 <h1 class="bigHeader" id="blueText">Awesome Header</h1>
 <h1 class="smallerHeader" id="redText">Smaller Awesome Header</h2>
 <h1 class="tinyHeader" id="purpleText">Even Smaller Header</h3>
```



#### **Activity: Targeted CSS**

In this activity, you will be given a very basic HTML file and will have to create an external CSS stylesheet changes the page's styling.



### Activity: Dull Corp

- Open the Unsolved Starter.
- Using an external stylesheet, classes, and IDs accomplish the following...
  - Style the first element so that it has a color of blue
  - Style the second and third elements so that they have a color of purple
  - Style the fourth element so that it has a color of red

#### **Bonus**

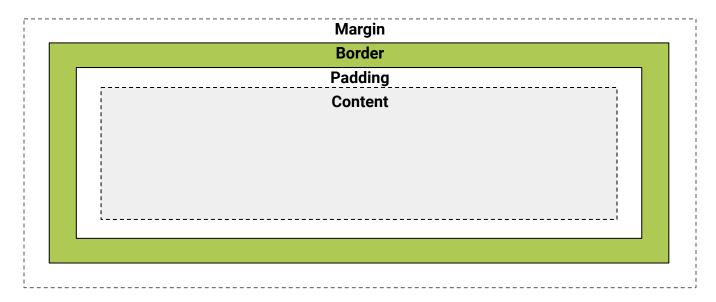
- Using only additional classes and IDs, attempt to accomplish the following...
  - Set the background color of the first and last elements to black
  - Set the font-size of the first element to 40px
  - Set the font-weight of the second element to bold
  - Set the font-size of the third and last elements to 10px



Time's Up! Let's Review.

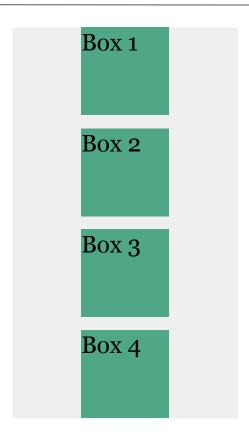


- In CSS, every elements rests within a series of Boxes.
- Each box has customizable space properties: margin, border and padding.
- Typical spacing value: 20px 10px 10px 20px (top, right, botton, left).



# **Position: Static Box Model and CSS Positioning**

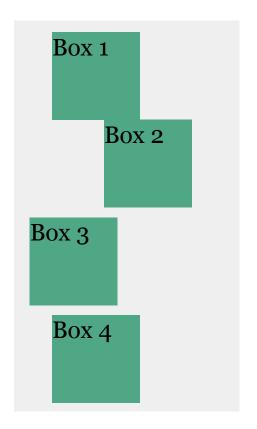
Four boxes placed statically (default):



### **Position:** Relative Box Model and CSS Positioning

 Switching the boxes to relative will nudge the boxes in relation to their "original" location:

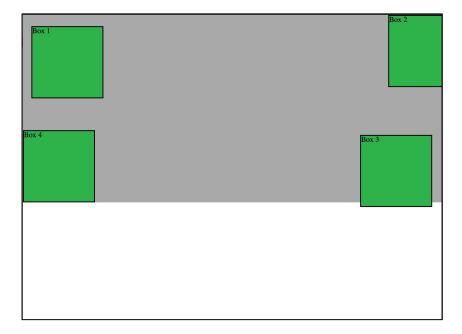
```
background: #2db34a;
 height: 80px;
 position: relative;
 width: 80px;
.box-1 {
 top: 20px;
.box-2 {
 left: 40px;
.box-3 {
 bottom: -10px;
 right: 20px;
```



#### **Position:** Absolute Box Model and CSS Positioning

Positioned relative to nearest positioned ancestor:

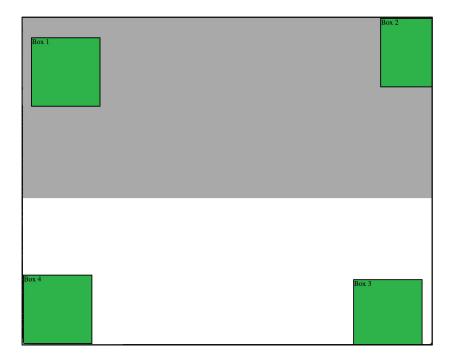
```
box-set {
 height: 400px;
background: darkgray;
position: relative;
 position: absolute;
height: 150px;
width: 150px;
background: #2db34a;
 border: 2px solid black;
box-1 {
 top: 6%;
 left: 2%;
box-2 {
 top: 0:
 right: -40px;
box-3 {
bottom: -10px:
 right: 20px;
box-4 {
 bottom: 0;
```



## **Position:** Fixed Box Model and CSS Positioning

Position with exact coordinates in the browser window:

```
.box-set {
 height: 400px;
 background: darkgray;
.box {
 position: fixed;
 height: 150px;
 width: 150px;
 background: #2db34a;
 border: 2px solid black;
box-1 {
 top: 6%;
 left: 2%;
box-2 {
 top: 0;
 right: -40px;
.box-3 {
 bottom: -10px;
 right: 20px;
.box-4 {
 bottom: 0;
```

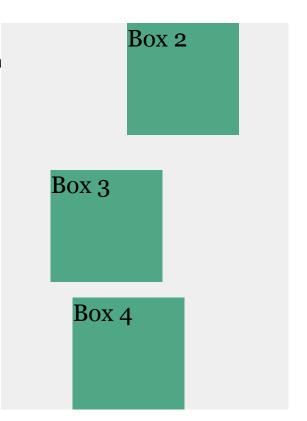


The z-index property allows you to layer elements on top of each other.

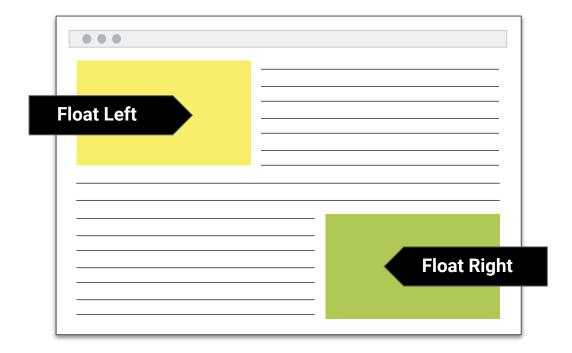
```
position: absolute;
z-index:1;
      position: absolute;
      z-index:2;
```

- Display: None allows you to hide elements from view.
- This will become useful in later sections, we'll hide and revea specific HTML elements of our choosing.

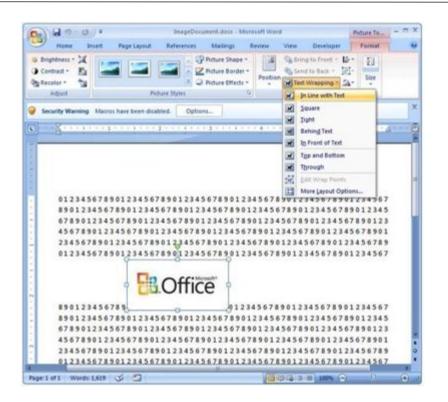
```
.box-1 {
   display: none;
}
```



- By default, every HTML element displayed in the browser is governed by a concept called flow.
- This means that HTML elements force their adjacent elements to flow around them.



- This concept of "flow" is very similar to the wrap-text options you may be familiar with in Microsoft Word.
- Just as in MS Word, you can have images in-line with text, on-top of text, etc.

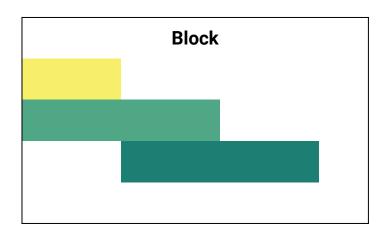




By default, web clients render many HTML elements as **block elements**. Paragraphs, headers, divs, and more receive this treatment.



A block element will take up an entire line of space—unless you intervene with CSS properties.



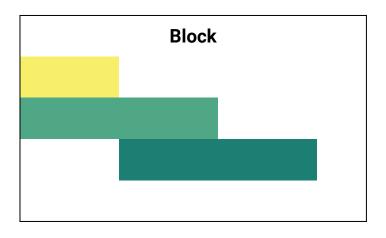
#### Block Elements vs. In-Line Elements Box Model and CSS Positioning

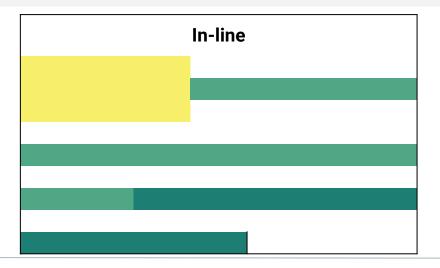


Now, contrast block elements with **in-line elements**.

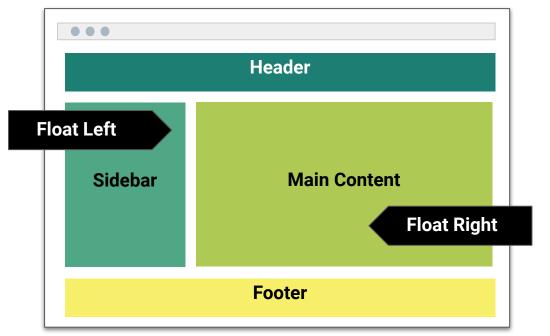


By using **float CSS properties**, we can command our website to display multiple HTML elements adjacently.





• To transform these block elements into in-line elements, we use a CSS property called **float**. Floats are necessary when building web layouts.



#### CSS

```
#sidebar {
    float: left;
}
#main-content {
    float: right;
}
```

 However, floats often get in the way of layouts. Sometimes we don't want to give each element the "in-line" treatment.



Sometimes when elements don't match up in size, we get situations like this:

<div>

Uh-oh! The image is taller than the element containing it, and it's floated, so it's overflowing outside of its container!



We can get around this by using the clearfix hack.

<div class="clearfix">

Much better!





::after is what we call a pseudo-element. We use it to style specific parts of an element.



This will add an HTML element, hidden from view, after the content of the .clearfix element. This clears the float.

```
.clearfix::after {
    content: "";
    display: block;
    clear: both;
}
```



In this activity, you will be given an HTML file you will style using CSS. In particular, they will be posting certain elements as described in the instructions.



- Open the Unsolved Starter.
- Using CSS, position the five headers in the starter code in their described locations.
  - Try to accomplish this using the box model
  - Try to accomplish this using absolute positioning
- Whenever you complete a step, save a unique version of your stylesheet and then create a new stylesheet for the next step.

#### • Hints:



- You can move elements around the page using pixels OR percentages. Try out both to see how they work.
- Not every task is capable of being accomplished without changing the order of HTML elements. Even then, some positions may still be impossible.

#### Bonus:

 Try to move the HTML elements provided using different kinds of positioning (static, relative, and fixed).



Time's Up! Let's Review.



In this activity, you will be given a Bio Page HTML skeleton and it will style is with CSS si the HTML resembles the image provided in the unsolved folder.



- Open the Unsolved folder and use the files inside as a starting point.
- Style the HTML file with the following:
  - Add a class called "container" on the div tag.
  - Add an id called "main-bio" for the first section tag.
  - Add an id called "contact-info" for the second section tag.
  - Add an id called "bio-image" for the bio image.
  - Style specs:
    - i. body
      - 1. The background color is #efeee7.
      - 2. The font used "Georgia", Times New Roman, Times, serif;.
      - 3. The font color is #333333.
      - 4. Be sure to zero out the body margins and padding so the page is flush to the top of the page.
    - ii. header
      - 1. The background-color is #333333.

- h1
  - The font color is #eee.
  - The font size is 28px.
  - Look at the example on the screen, and eyeball the padding and/or margins and positioning of the text.

- h2
  - The font size is 24px
- Make the container have a width of 1024 pixels, and center it. You do this using margin: 0 auto;.
- Make #main-bio, #contact-info, #bio-image all float: left.
- Make the #bio-image have a width of 200 pixels.
- Be sure to include alt text in all images
- #main-bio should have a width of 70%.
- Add margins to the image so there is distance between it and the bio text.
- #content-info should have a width of 30%.
  - Adjust the line height so it is 1.5 times the size of the font.
- Make the link color #d21034.
- #figure should be given relative positioning
- #bio-name should use absolute positioning and be placed at the bottom-center of your #bio-image

- Make sure to replace the content inside of the HTML document with your own name, github link, etc.
- Stage, commit, and push this new file to GitHub Pages.
- Bonus:
  - Using fixed positioning, attempt to create a footer on your page that will stay positioned at the bottom of the screen even when scrolling.
  - Underneath the main content of your page, add in a "portfolio" section. Try to make it so that
    the projects are set up in a kind of grid with two projects per row. Each of the projects should
    be named with a header, include a relevant image, and have a short paragraph describing the
    project.



Time's Up! Let's Review.

