

# CS 106: Web Technology - I Assignment #2 A

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## Introduction

Create a .html document with the standard HTML-structure (<html>, <head>, <body> etc.). The content is okay to look into. However the presentation of content using raw HTML looks boring. For the great visual appeal, CSS (Cascading Style Sheets) are important to be incorporated in the HTML document.

Including the CSS can be done through:

### 1. Inline CSS

```
<html_tag style="... css rules ... " > ... </html_tag>
```

### 2. Embedded CSS and

```
<style> \dots css rules \dots</style>
```

### 3. External Stylesheets

```
<link rel="stylesheet" type="text/css" href="main.css">
```

## CSS Properties

The different properties of Stylesheets create a visual appeal to the HTML webpage.

### • Colors

#### 1. Foreground Color of Element's text content

```
1 color: <color value> | <color keyword> | currentColor | transparent | inherit;
```

#### 2. Background Color of Element.

```
1 background-color: <color value> | <color keyword> | currentColor | transparent | inherit;
```

### • Width and Height

```
1 width: values_with_units;  
2 height: values_with_units;  
3 min-width: values_with_units;  
4 max-width: values_with_units;
```

[w3.org/Style/Examples/007/units.en.html](http://w3.org/Style/Examples/007/units.en.html)

### • Borders

```
1 border-style: dotted | dashed | solid | groove | ridge | inset | outset | none | hidden;  
2 border-width: values_with_units;
```

- Text Styles

```
1 font-family: font_name;
2 font-style: normal|italic|oblique;
3 font-size: values_with_units;
4 line-height: values_with_units;
5 font-weight: bold|normal|values_with_units;
6 font-variant: small-caps|normal;
```



#### Info: Colors Values

<color value>

The color can be specified as

a hexadecimal RGB value: #faf or #fffaaff

a RGB value: rgb(255, 160, 255) or rgb(100%, 62.5%, 100%)

Each value is from 0 to 255, or from 0% to 100%.

a RGBA value: rgba(255, 160, 255, 1) or rgba(100%, 62.5%, 100%, 1)

This variant includes an "alpha" component to allow specification of the opacity of a color. Value

a HSL value: hsl(0, 100%, 50%)

A triple (hue, saturation, lightness). hue is an angle in degrees. saturation and lightness are pe

a HSLA value: hsla(0, 100%, 50%, 1)

This variant includes an "alpha" component to allow specification of the opacity of a color. Value

<color keyword>

One of the pre-defined color keywords.

currentColor

Same as "inherit".

transparent

Fully transparent. This keyword can be considered a shorthand for transparent black, rgba(0,0,0,0)

inherit

Takes the same specified value as the property for the element's parent.

More Info: [www.w3.org/TR/css-color-3](http://www.w3.org/TR/css-color-3)

## CSS Selectors

The selectors conventions are used for items that have to be applied with different CSS rules. This otherwise would be tedious as only inline CSS should have been used to get particular change. Learning the following selectors is important to understand where to apply a CSS Rule.

1. Class
2. ID
3. Tag
4. Universal

The selectors can be used to demonstrate different heirarchy related to DOM (document object model).

## Lab Objective

To learn the CSS concepts and use them in HTML for text stylings.

### Question 1

Use different CSS rules to render the following html page.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>
5       My Website
6     </title>
7   </head>
8   <body>
9     <h1>How To Be Attractive </h1>
10
11     <p>
12       All it takes is makeup and cool clothes , and you're most of the way there .
13     </p>
14
15     <p>Let's talk numbers. What are the steps to be more good looking?</p>
16
17     <ol>
18       <li>Buy makeup and trendy clothes </li>
19       <li>
20         Make a viral YouTube video shaming companies for telling us this is how
21         to be attractive
22       </li>
23       <li>
24         Pay attention to the comments, someone on there will probably call you
25         hot
26       </li>
27       <li>Relish in the joys of the internet</li>
28     </ol>
29
30     
34   </body>
35 </html>
```

## Question 2

Use different CSS rules to render the following html page using class, id selectors.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>My Website>\n</title>
5   <style></style>
6 </head>
7 <body>
8   <h1>Poetry</h1>
9   <p>Check out these incredible poems!</p>
10  <hr />
11  <p class="poemtitle"> Pearls</p>
12  <p class="author"> Sarah Baugh</p>
13  <p class="poem"> The world is your oyster
14 <br/> What does that mean?
15 <br/> Is there a pearl hidden in every dark
16   place?
17 <br/> Or is the world only what we want it to be
18 <br/> If we have the pearls to pay for it?
19 <br/> If we pry
20   something open
21 <br/> That is shut tightly
22 <br/> And is dark
23 <br/> Mysterious
24 <br/> Will we always find something
25   beautiful?
26 <br/> Not ever oyster holds a pearl.
27 <br/> Is it the promise of something beautiful
28 <br/> That keeps us
29   searching for oysters
30 <br/> In this world?
31 <br/> Not every pearl is in an oyster.
32 <br/> </p>
33 <hr />
34 <p class="poemtitle"> Real Happiness</p>
35 <p class="author"> Shashikant Nishant Sharma</p>
36 <p class="poem"> Happiness lies in good health
37 <br/> Not in accumulation of wealth
38 <br/> Happiness lies in caring for
39   others
40 <br/> Like dear friends and brothers
41 <br/> Happiness lies in sharing
42 <br/> Not is amassing
43 <br/> Happiness is
44   the state of mind
45 <br/> Nowhere else you can find
46 <br/> Enjoy the moment, live the life
47 <br/> Settle score and end
48   the strife
49 <br/> Happiness is the journey not destination
50 <br/> Happiness Is doing what is your fascination
51 <br/>
52   Happiness is doing what you like
53 <br/> Sleeping , walking , running and riding a bike
54 <br/> Happiness will come
55   near
56 <br/> When you will venture without fear
57 <br/> Render service that you can
58 <br/> Live a life that adorn a
59   man
60 <br/> </p>
61 <hr />
62 <p> Thanks for reading!</p>
63 </body>
64 </html>
```



**Info:** Poems should be centered and italic Poem title and Author should be clustered to the poem with suitable CSS Rules.

### Question 3

Experiment with color properties and inheritance rules in above HTML page.