

MPT Web Design



Week 2: Introduction to Design and CSS

What will we do in this class?

Learn the basics of CSS

Different ways and places we can write our CSS

Syntax of CSS

Colour

Class Plan

WEEK 1

Introduction to HTML, Page Structures/layouts, Browsers

Homework: Make a HTML page for your competition page. Come up with a design plan

WEEK 2

Introduction to CSS and how to apply style to a web page

Homework: Colour and design scheme for your competition page using paletton

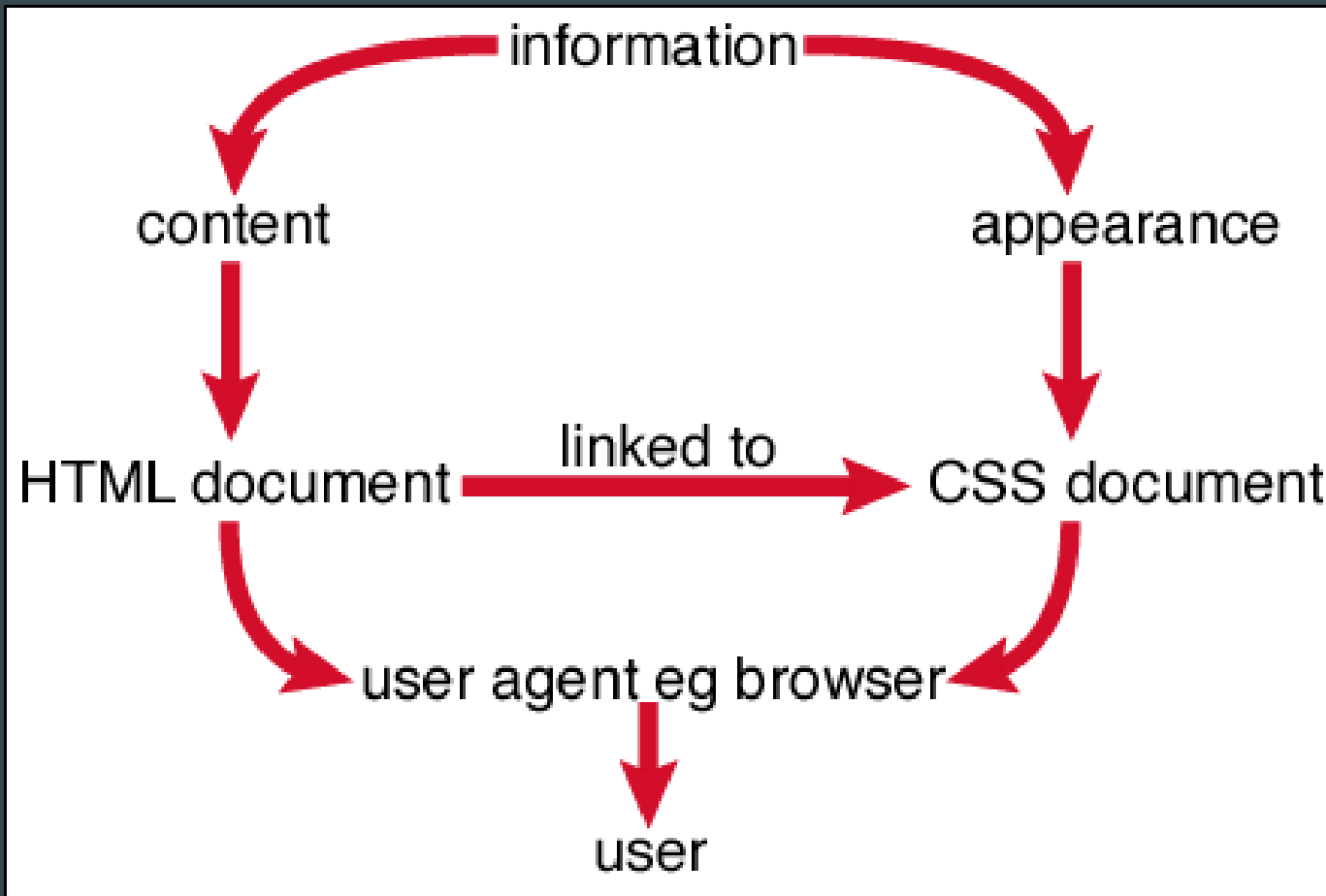
WEEK 3

Introduction to JavaScript and dynamic web pages

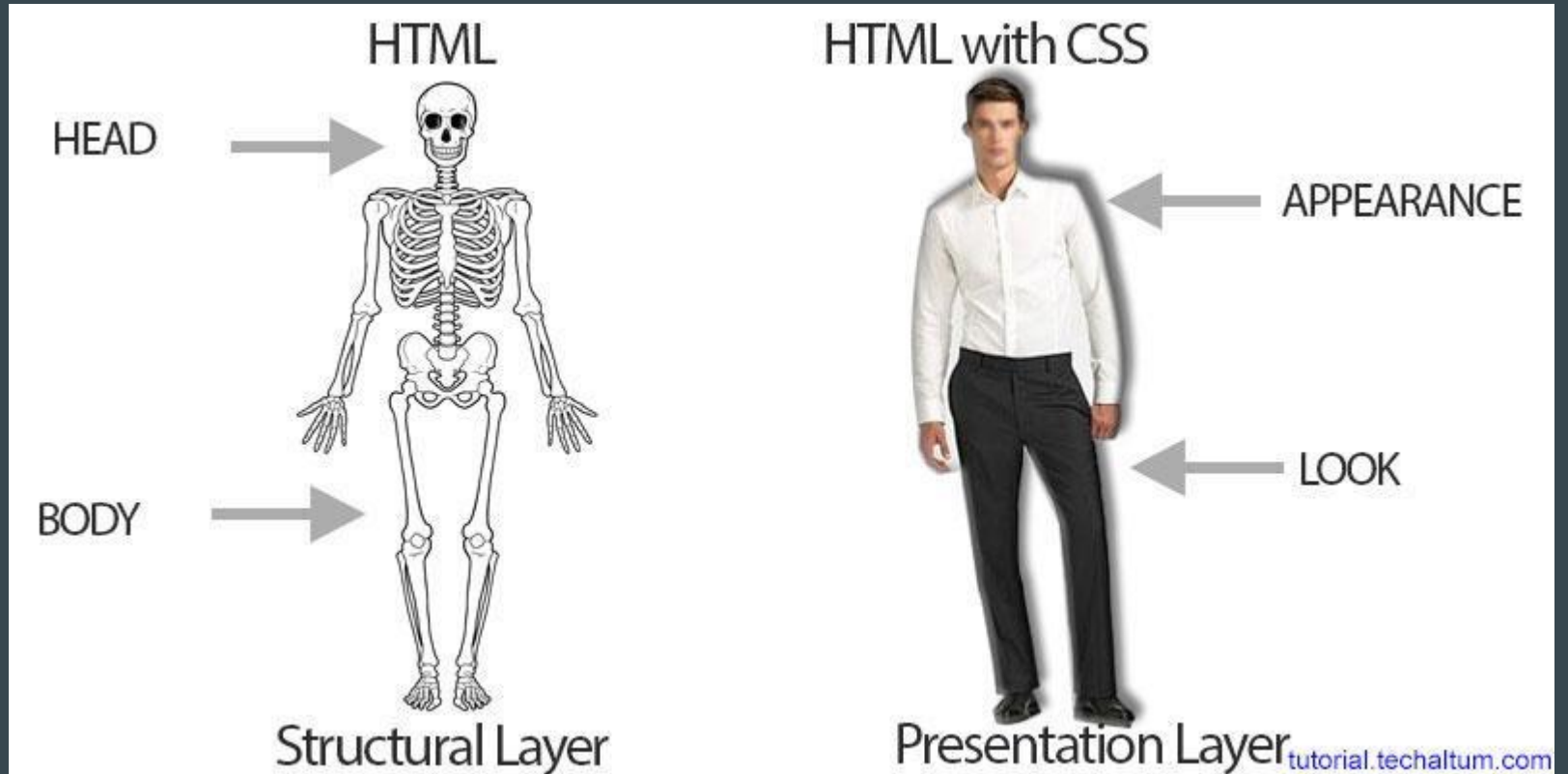
Homework:



CSS



How does CSS Work?



What Does CSS do?

CSS Hierarchy

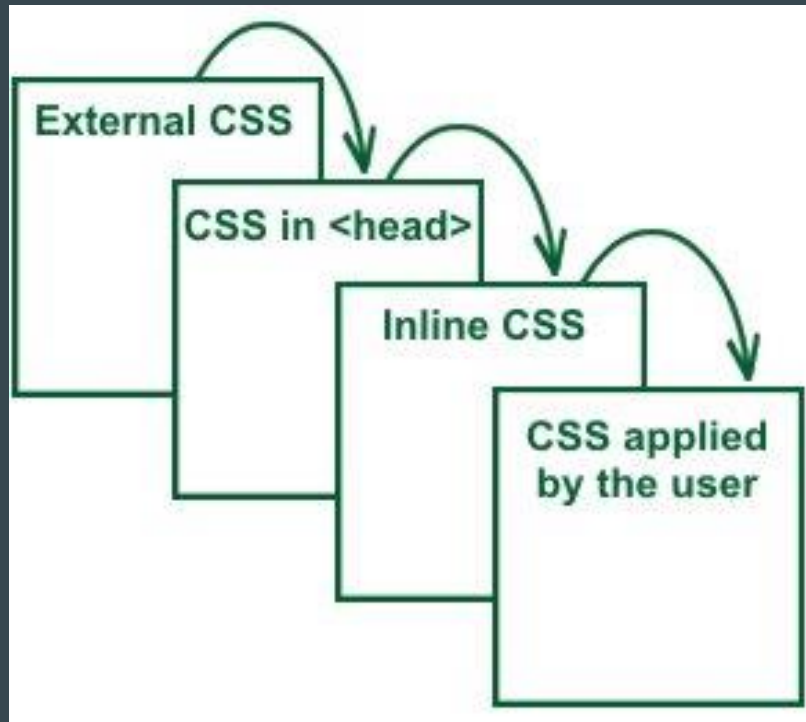
3 Places the Style can go

External CSS (.css) File

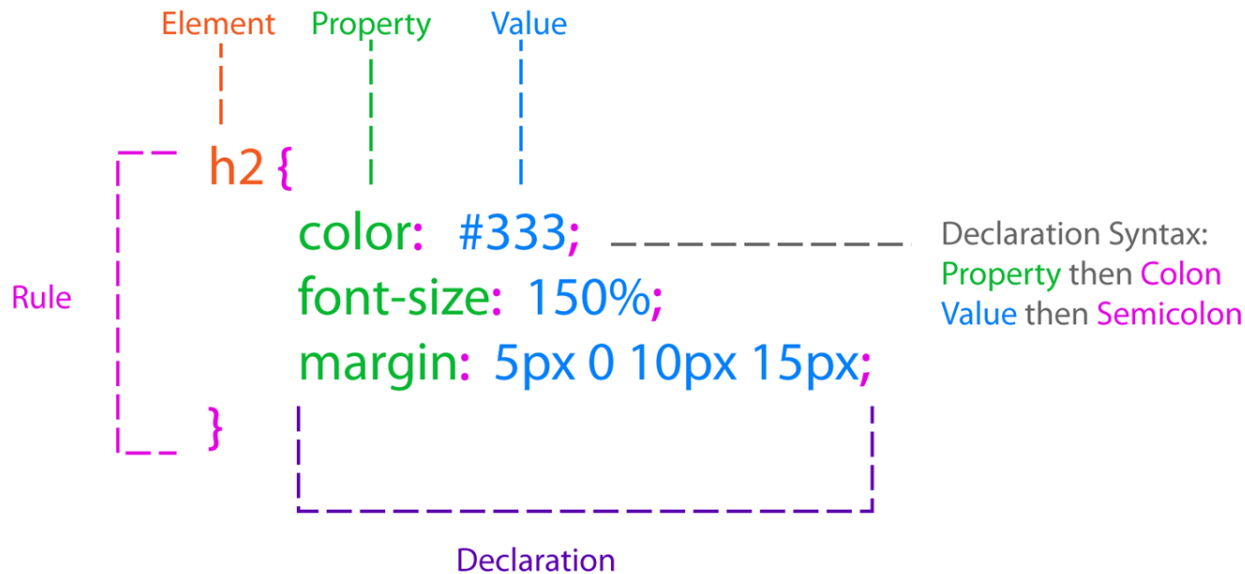
`<style>` tags in `<head>`

Inline in a html tag

```
<div style=" "></div>
```



Basic Anatomy of a CSS Rule



Declaring a CSS Rule for a **Class** Attribute

the XHTML

```
<a class="pdf" href="brochure.pdf">Brochure</a>
```

the CSS

```
.pdf {background: url(images/pdf.gif) no-repeat left 50%;}
```

use a **period** when writing a rule for a **class**

Declaring a CSS Rule for an **Id** Attribute

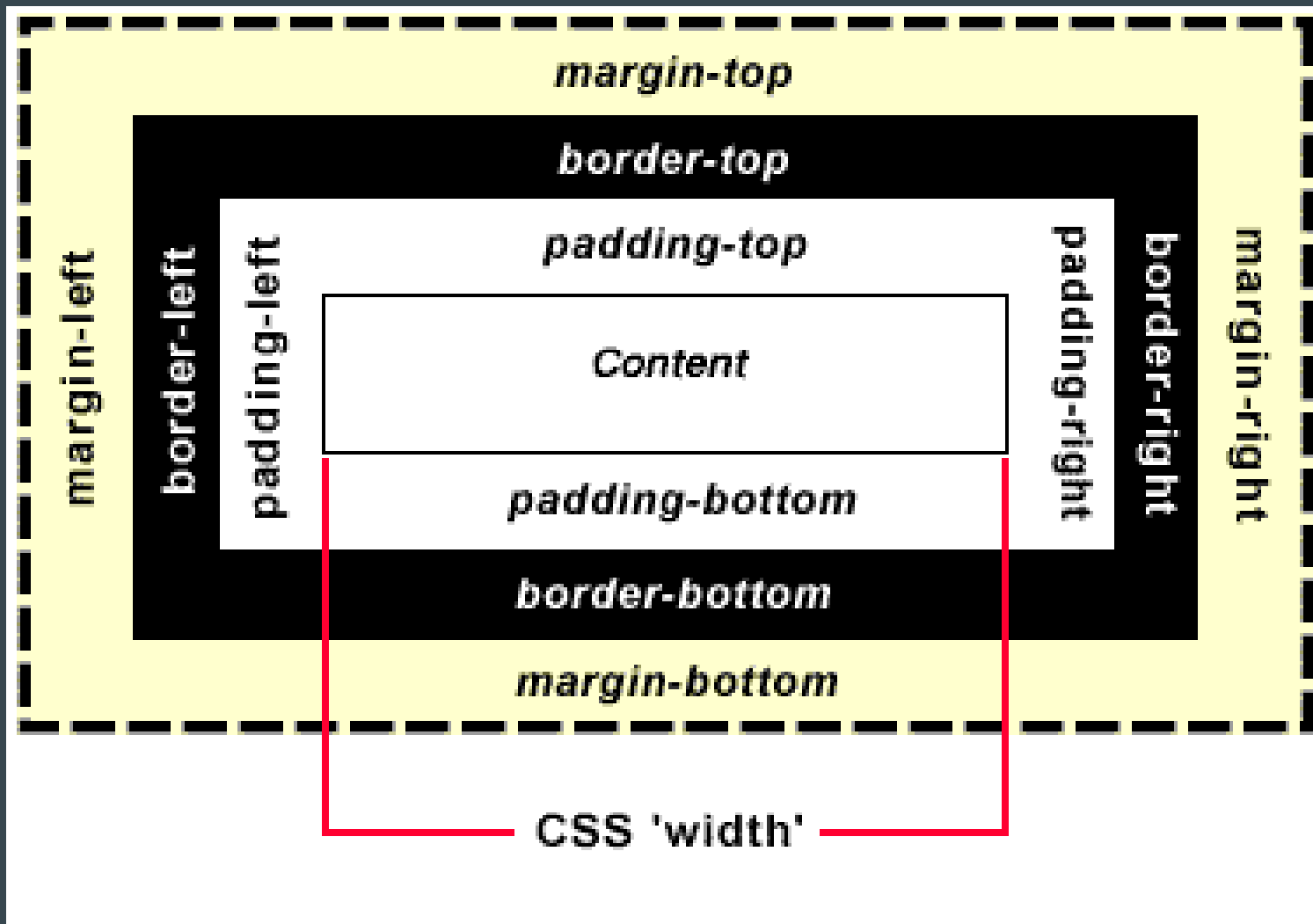
the XHTML

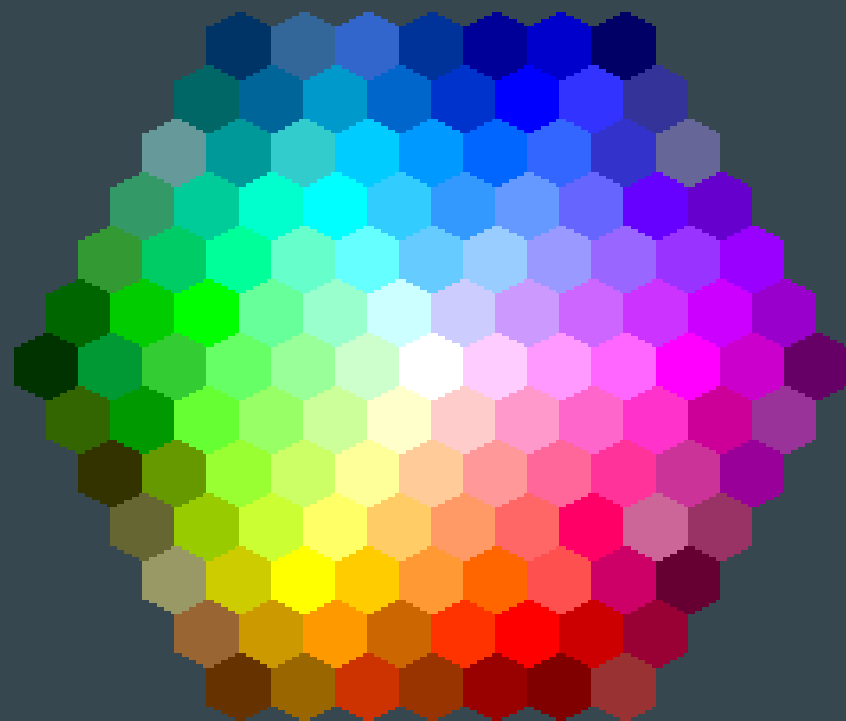
```
<div id="wrapper">Main Content</div>
```

the CSS

```
#wrapper {width: 750px; margin: 0 auto;}
```

use a **pound sign** when writing a rule for a **id**





Colour

Colour in CSS

Colors in CSS are most often specified by:

A valid **color name** - like "red"

An **RGB value** - like "rgb(255, 0, 0)"

A **HEX value** - like "#ff0000"

rgb(**red** 0-255, **green** 0-255, **blue** 0-255)

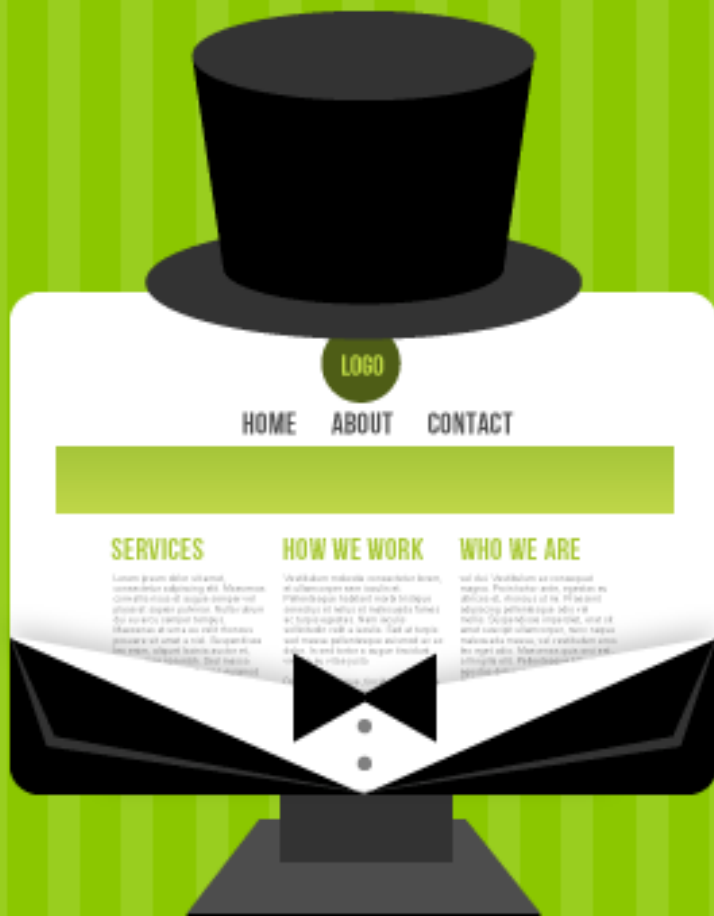
#r8r1g8g1b8b1 - e.g. "#00ff00" is just **green**

Hex uses 0-9 and a-f

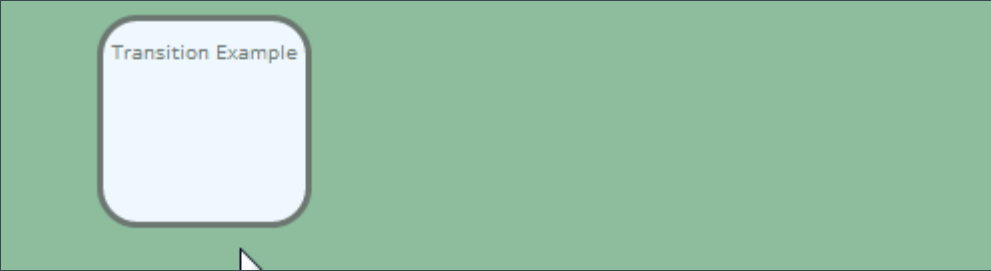




#CCFF00 rgb(204, 255, 0)	#CCCC00 rgb(204, 204, 0)	#CC9900 rgb(204, 153, 0)	#CC6600 rgb(204, 102, 0)	#CC3300 rgb(204, 51, 0)	#CC0000 rgb(204, 0, 0)	#660000 rgb(102, 0, 0)	#663300 rgb(102, 51, 0)	#666600 rgb(102, 102, 0)	#669900 rgb(102, 153, 0)	#66CC00 rgb(102, 204, 0)	#66FF00 rgb(102, 255, 0)	#00FF00 rgb(0, 255, 0)	#00CC00 rgb(0, 204, 0)	#009900 rgb(0, 153, 0)	#006600 rgb(0, 102, 0)	#003300 rgb(0, 51, 0)	#000000 rgb(0, 0, 0)
#CCFF33 rgb(204, 255, 51)	#CCCC33 rgb(204, 204, 51)	#CC9933 rgb(204, 153, 51)	#CC6633 rgb(204, 102, 51)	#CC3333 rgb(204, 51, 51)	#CC0033 rgb(204, 0, 51)	#660033 rgb(102, 0, 51)	#663333 rgb(102, 51, 51)	#666633 rgb(102, 102, 51)	#669933 rgb(102, 153, 51)	#66CC33 rgb(102, 204, 51)	#66FF33 rgb(102, 255, 51)	#00FF33 rgb(0, 255, 51)	#00CC33 rgb(0, 204, 51)	#009933 rgb(0, 153, 51)	#006633 rgb(0, 102, 51)	#003333 rgb(0, 51, 51)	#000033 rgb(0, 0, 51)
#CCFF66 rgb(204, 255, 102)	#CCCC66 rgb(204, 204, 102)	#CC9966 rgb(204, 153, 102)	#CC6666 rgb(204, 102, 102)	#CC3366 rgb(204, 51, 102)	#CC0066 rgb(204, 0, 102)	#660066 rgb(102, 0, 102)	#663366 rgb(102, 51, 102)	#666666 rgb(102, 102, 102)	#669966 rgb(102, 153, 102)	#66CC66 rgb(102, 204, 102)	#66FF66 rgb(102, 255, 102)	#00FF66 rgb(0, 255, 102)	#00CC66 rgb(0, 204, 102)	#009966 rgb(0, 153, 102)	#006666 rgb(0, 102, 102)	#003366 rgb(0, 51, 102)	#000066 rgb(0, 0, 102)
#CCFF99 rgb(204, 255, 153)	#CCCC99 rgb(204, 204, 153)	#CC9999 rgb(204, 153, 153)	#CC6699 rgb(204, 102, 153)	#CC3399 rgb(204, 51, 153)	#CC0099 rgb(204, 0, 153)	#660099 rgb(102, 0, 153)	#663399 rgb(102, 51, 153)	#666699 rgb(102, 102, 153)	#669999 rgb(102, 153, 153)	#66CC99 rgb(102, 204, 153)	#66FF99 rgb(102, 255, 153)	#00FF99 rgb(0, 255, 153)	#00CC99 rgb(0, 204, 153)	#009999 rgb(0, 153, 153)	#006699 rgb(0, 102, 153)	#003399 rgb(0, 51, 153)	#000099 rgb(0, 0, 153)
#CCFFCC rgb(204, 255, 204)	#CCCCCC rgb(204, 204, 204)	#CC99CC rgb(204, 153, 204)	#CC66CC rgb(204, 102, 204)	#CC33CC rgb(204, 51, 204)	#CC00CC rgb(204, 0, 204)	#6600CC rgb(102, 0, 204)	#6633CC rgb(102, 51, 204)	#6666CC rgb(102, 102, 204)	#6699CC rgb(102, 153, 204)	#66CCCC rgb(102, 204, 204)	#66FFCC rgb(102, 255, 204)	#00FFCC rgb(0, 255, 204)	#00CCCC rgb(0, 204, 204)	#0099CC rgb(0, 153, 204)	#0066CC rgb(0, 102, 204)	#0033CC rgb(0, 51, 204)	#0000CC rgb(0, 0, 204)
#CCFFFF rgb(204, 255, 255)	#CCCCFF rgb(204, 204, 255)	#CC99FF rgb(204, 153, 255)	#CC66FF rgb(204, 102, 255)	#CC33FF rgb(204, 51, 255)	#CC00FF rgb(204, 0, 255)	#6600FF rgb(102, 0, 255)	#6633FF rgb(102, 51, 255)	#6666FF rgb(102, 102, 255)	#6699FF rgb(102, 153, 255)	#66CCFF rgb(102, 204, 255)	#66FFFF rgb(102, 255, 255)	#00FFFF rgb(0, 255, 255)	#00CCFF rgb(0, 204, 255)	#0099FF rgb(0, 153, 255)	#0066FF rgb(0, 102, 255)	#0033FF rgb(0, 51, 255)	#0000FF rgb(0, 0, 255)
#FFFFFF rgb(255, 255, 255)	#FFCCFF rgb(255, 204, 255)	#FF99FF rgb(255, 153, 255)	#FF66FF rgb(255, 102, 255)	#FF33FF rgb(255, 51, 255)	#FF00FF rgb(255, 0, 255)	#9900FF rgb(153, 0, 255)	#9933FF rgb(153, 51, 255)	#9966FF rgb(153, 102, 255)	#9999FF rgb(153, 153, 255)	#99CCFF rgb(153, 204, 255)	#99FFFF rgb(153, 255, 255)	#33FFFF rgb(51, 255, 255)	#33CCFF rgb(51, 204, 255)	#3399FF rgb(51, 153, 255)	#3366FF rgb(51, 102, 255)	#3333FF rgb(51, 51, 255)	#3300FF rgb(51, 0, 255)
#FFFFCC rgb(255, 255, 204)	#FFCCCC rgb(255, 204, 204)	#FF99CC rgb(255, 153, 204)	#FF66CC rgb(255, 102, 204)	#FF33CC rgb(255, 51, 204)	#FF00CC rgb(255, 0, 204)	#9900CC rgb(153, 0, 204)	#9933CC rgb(153, 51, 204)	#9966CC rgb(153, 102, 204)	#9999CC rgb(153, 153, 204)	#99CCCC rgb(153, 204, 204)	#99FFCC rgb(153, 255, 204)	#33FFCC rgb(51, 255, 204)	#33CCCC rgb(51, 204, 204)	#3399CC rgb(51, 153, 204)	#3366CC rgb(51, 102, 204)	#3333CC rgb(51, 51, 204)	#3300CC rgb(51, 0, 204)
#FFFF99 rgb(255, 255, 153)	#FFCC99 rgb(255, 204, 153)	#FF9999 rgb(255, 153, 153)	#FF6699 rgb(255, 102, 153)	#FF3399 rgb(255, 51, 153)	#FF0099 rgb(255, 0, 153)	#990099 rgb(153, 0, 153)	#993399 rgb(153, 51, 153)	#996699 rgb(153, 102, 153)	#999999 rgb(153, 153, 153)	#99CC99 rgb(153, 204, 153)	#99FF99 rgb(153, 255, 153)	#33FF99 rgb(51, 255, 153)	#33CC99 rgb(51, 204, 153)	#339999 rgb(51, 153, 153)	#336699 rgb(51, 102, 153)	#333399 rgb(51, 51, 153)	#330099 rgb(51, 0, 153)
#FFFF66 rgb(255, 255, 102)	#FFCC66 rgb(255, 204, 102)	#FF9966 rgb(255, 153, 102)	#FF6666 rgb(255, 102, 102)	#FF3366 rgb(255, 51, 102)	#FF0066 rgb(255, 0, 102)	#990066 rgb(153, 0, 102)	#993366 rgb(153, 51, 102)	#996666 rgb(153, 102, 102)	#999966 rgb(153, 153, 102)	#99CC66 rgb(153, 204, 102)	#99FF66 rgb(153, 255, 102)	#33FF66 rgb(51, 255, 102)	#33CC66 rgb(51, 204, 102)	#339966 rgb(51, 153, 102)	#336666 rgb(51, 102, 102)	#333366 rgb(51, 51, 102)	#330066 rgb(51, 0, 102)
#FFFF33 rgb(255, 255, 51)	#FFCC33 rgb(255, 204, 51)	#FF9933 rgb(255, 153, 51)	#FF6633 rgb(255, 102, 51)	#FF3333 rgb(255, 51, 51)	#FF0033 rgb(255, 0, 51)	#990033 rgb(153, 0, 51)	#993333 rgb(153, 51, 51)	#996633 rgb(153, 102, 51)	#999933 rgb(153, 153, 51)	#99CC33 rgb(153, 204, 51)	#99FF33 rgb(153, 255, 51)	#33FF33 rgb(51, 255, 51)	#33CC33 rgb(51, 204, 51)	#339933 rgb(51, 153, 51)	#336633 rgb(51, 102, 51)	#333333 rgb(51, 51, 51)	#330033 rgb(51, 0, 51)
#FFFF00 rgb(255, 255, 0)	#FFCC00 rgb(255, 204, 0)	#FF9900 rgb(255, 153, 0)	#FF6600 rgb(255, 102, 0)	#FF3300 rgb(255, 51, 0)	#FF0000 rgb(255, 0, 0)	#990000 rgb(153, 0, 0)	#993300 rgb(153, 51, 0)	#996600 rgb(153, 102, 0)	#999900 rgb(153, 153, 0)	#99CC00 rgb(153, 204, 0)	#99FF00 rgb(153, 255, 0)	#33FF00 rgb(51, 255, 0)	#33CC00 rgb(51, 204, 0)	#339900 rgb(51, 153, 0)	#336600 rgb(51, 102, 0)	#333300 rgb(51, 51, 0)	#330000 rgb(51, 0, 0)



GET STYLIN' WITH CSS



Transition Example

CSS Animations

CSS3 Animations

CSS3 animations allows animation of most HTML elements

An element's style can be gradually animated over time

To do this we must specify keyframes (discussed more in web animation)

Simply keyframes mark a change in something over time

Every keyframe must be bound to an element

CSS3 Animation Examples

```
/* The animation code */
@keyframes example {
  from {background-color: red;}
  to {background-color: yellow;}
}

/* The element to apply the animation to */
div {
  width: 100px;
  height: 100px;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
}
```

```
/* The animation code */
@keyframes example {
  0%   {background-color:red; left:0px; top:0px;}
  25%  {background-color:yellow; left:200px; top:0px;}
  50%  {background-color:blue; left:200px; top:200px;}
  75%  {background-color:green; left:0px; top:200px;}
  100% {background-color:red; left:0px; top:0px;}
}

/* The element to apply the animation to */
div {
  width: 100px;
  height: 100px;
  position: relative;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
}
```

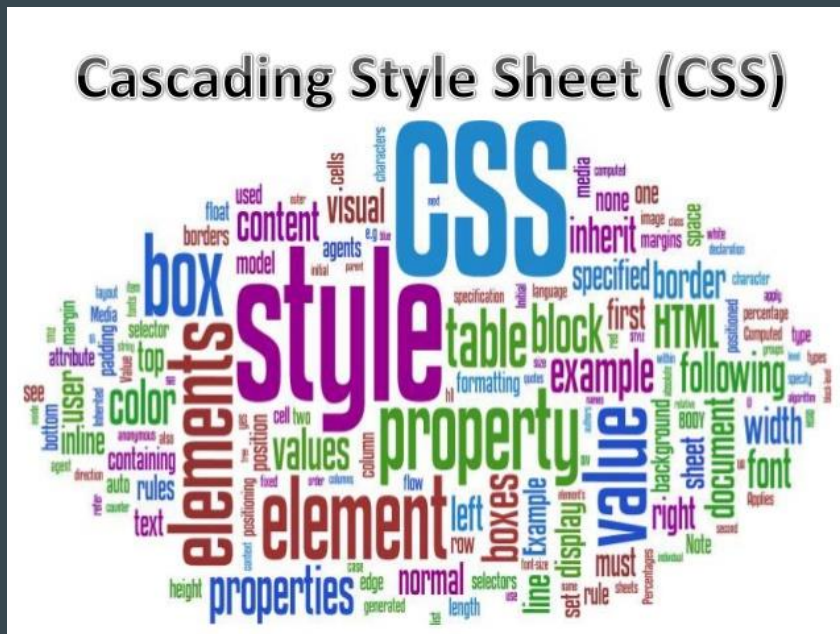

Resources

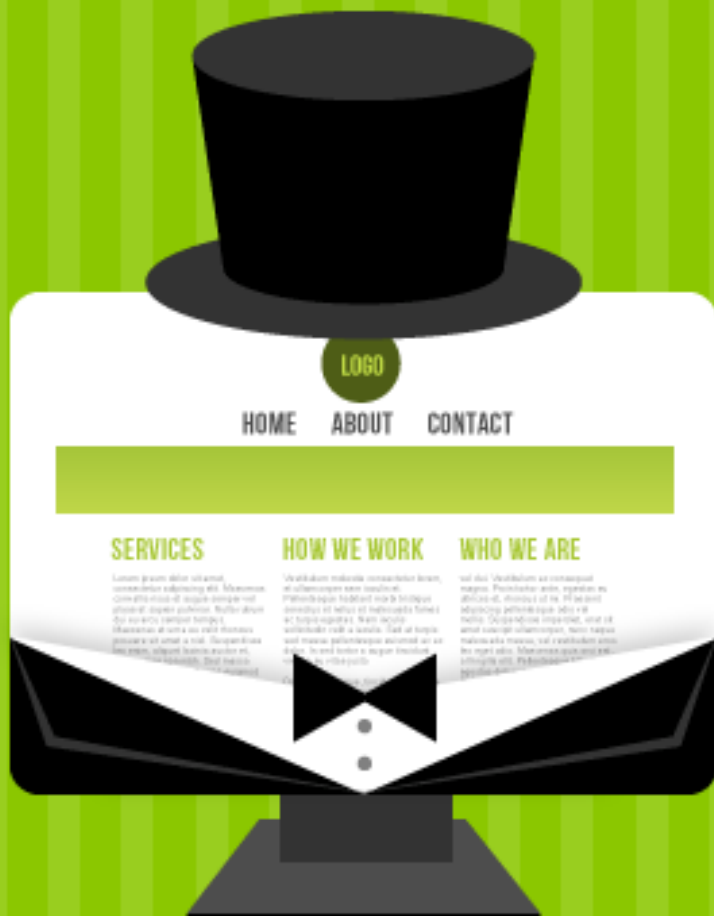
W3schools: <http://www.w3schools.com/css/>

W3schools Colour Picker:

http://www.w3schools.com/colors/colors_picker.asp

Palleton: <http://palleton.com/>





GET STYLIN' WITH CSS