Table of Contents

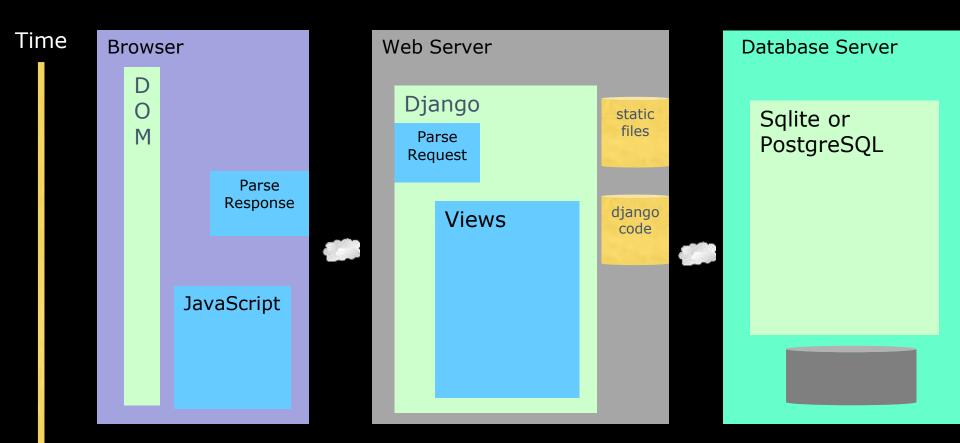
This slide deck consists of slides used in 3 lecture videos in Week 4. Below is a list of shortcut hyperlinks for you to jump into specific sections.

- (page 2) Week 4: WA4E/CSS Cascading Style Sheets (Part 1)
- (page 13) Week 4: WA4E/CSS Cascading Style Sheets (Part 2)
- (page 24) Week 4: WA4E/CSS Cascading Style Sheets (Part 3)

Cascading Style Sheets

- Charles Severance
- www.dj4e.com

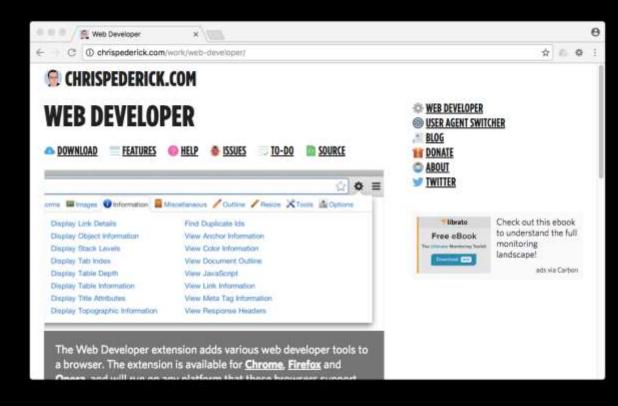




RRC/HTTP

SQL

More than Developer Console



http://chrispederick.com/work/web-developer/



Yellow Pages - People Search - City Maps - Stock Quotes - Sports Seores

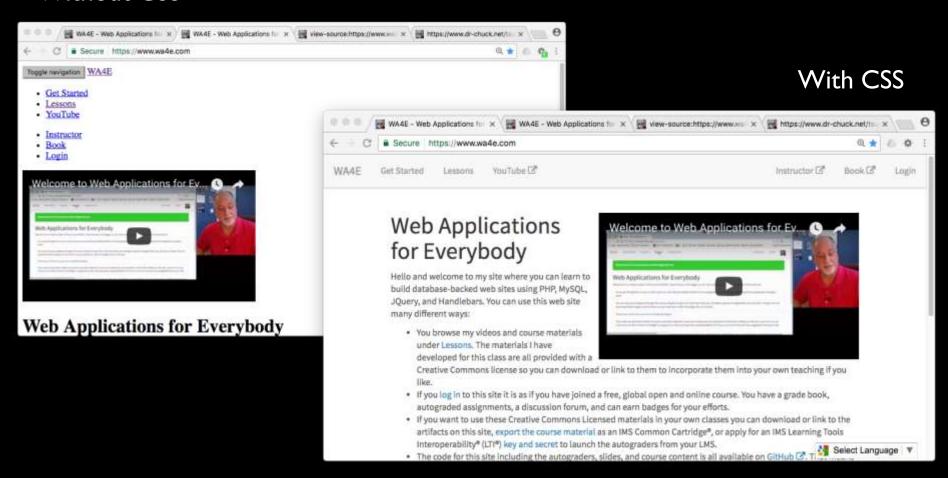
- Arts and Humanities Architecture, Photography, Literature.
- . Business and Economy [Xtra!] Companies, Investments, Classifieds...
- . Computers and Internet [Xtra!] Internet, WWW, Software, Multimedia...
- Education Universities, K-12, College Entrance.
- Entertainment [Xtra!] Cool Links, Movies, Music, Humor...
- Government Politics [Xtra!], Agencies, Law, Military...
- · Health [Xtra!] Medicine, Drugs, Diseases, Fitness...
- . News and Media [Xtra!] Current Events, Magazines, TV, Newspapers...
- Recreation and Sports [Xtra!] Sports, Games, Travel, Autos, Outdoors...
- Reference Libraries, Dictionaries, Phone Numbers...

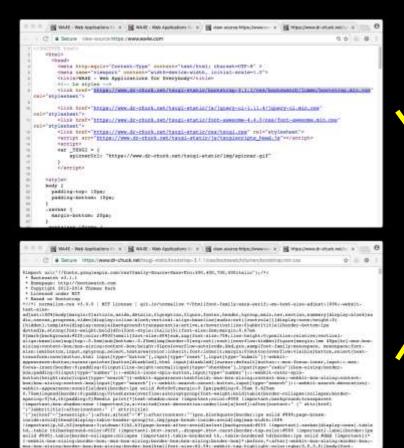
1996

HTML has evolved a *lot* over the years - as computers and networks have gotten faster



Without CSS





HTML



Secure https://www.wa4e.com

Lessons

Get Started

Hello and welcome to my site where you can learn to build database-backed web sites using PHP, MySQL, JQuery, and Handlebars. You can use this web site many different ways:

> You browse my videos and course materials under Lessons. The materials I have

developed for this class are all provided with a

Creative Commons license so you can download or link to them to incorporate them into your own teaching if you like.

WA4E - Web Applications III × MA4E - Web Applications IV × MA4E - Web Appl

- If you log in to this site it is as if you have joined a free, global open and online course. You have a grade book, autograded assignments, a discussion forum, and can earn badges for your efforts.
- If you want to use these Creative Commons Licensed materials in your own classes you can download or link to the
 artifacts on this site, export the course material as an IMS Common Cartridge*, or apply for an IMS Learning Tools
 interoperability* (LT*) key and secret to launch the autograders from your LMS.
- The code for this site including the autograders, slides, and course content is all available on GitHub ☑. Ti 🋂 Select Language ▼

CSS

Separation of Concerns / Specialization

Developer

Designer

```
body
 font-family: arial, sans-serif;
 color: blue;
 border-style: solid;
 border-color: red;
 border-width: 5px;
  color: green;
 background-color: lightgray;
  text-decoration: none;
```

CSS Syntax

- CSS Syntax is very different than HTML.
- CSS is a set of "rules" which in include a "selector" and one or more "properties" and "values" as well as some punctuation...

```
body {
    font-family: arial, sans-serif;
}
```

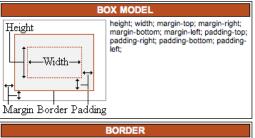
Anatomy of a CSS Rule

selector - which part of the document this rule applies to

CSS CHEAT SHEET

Shorthand* SYNTAX background Syntax selector (property: value;) border-bottom **External Style Sheet** border-left border-right k rel="stylesheet" type="text/css" href="style.css" /> border-top Internal Style <style type="text/css"> list-style selector (property: value;) margin </style> padding Inline Style Comments <tag style="property: value"> /* Comment */ **GENERAL** Pseudo String preceded by a period Class Selectors ID String preceded by a hash mark :hover div Formats structure or block of text :active Inline formatting :focus span :link Foreground color :visited cursor Appearance of the cursor :first-line :first-letter display block; inline; list-item; none How content overflowing its box is handled Media visible, hidden, scroll, auto Types visibility visible, hidden braille **FONT** embossed handheld font-style Italic, normal print projection font-variant normal, small-caps screen speech bold, normal, lighter, bolder, integer (100-900) Size of the font font-family Specific font(s) to be used Units TEXT Length % letter-spacing Space between letters

Vertical distance between baselines



BORDER			
border- width	Width of the border		
border- style	dashed; dotted; double; groove; inset; outset; ridge; solid; none		
border- color	Color of the border		

POSITION			
clear	Any floating elements around the element? both, left, right, none		
float	Floats to a specified side left, right, none		
left	The left position of an element auto, length values (pt, in, cm, px)		
top	The top position of an element auto, length values (pt, in, cm, px)		
position	static, relative, absolute		
z-index	Element above or below overlapping elements? auto, integer (higher numbers on top)		

background-color
background-image
Background image

Partial List of CSS Properties

```
color
                                                 text-decoration
       background-color
                                                  border-width
  visibility (visible/hidden)
                                                  border-style
font-family (arial, sans-serif)
                                                  border-color
           font-size
                                                     margin
 font-style (italic, normal)
                                                      border
  font-weight (bold, normal)
                                                     padding
          text-align
                                            float (left, right, none)
        vertical-align
                                                    left / top
text-transform (lowercase, etc)
                                      position (static, relative, absolute)
                                                     z-index
```

Using CSS in HTML

Applying CSS to our HTML

- Inline right on an HTML tag, using the style= attribute
- An embedded style sheet in the <head> of the document
- As an external style sheet in a separate file



And on to CSS

We can use the style= attribute on HTML tags to apply various styles to text and blocks of text.

These pages are intended to be explored in the developer console of your browser.

The "Cascading" in CSS means that the closest style setting (monospace) "wins" over a syle setting (arial) that is "further away".

We can put a border around a block of text. You probably want a CSS cheat sheet handy or use Google to search to find CSS values.

While the style attribute works, it leads to overly verbose HTML so it is more typical to write CSS ⇒ style rules to apply styles to many

Q & 0

Go to the very last page.

```
tags at once.
          Elements Console Sources Network Timeline Profiles Application Security Audits
<html>
                                                                                            Styles Computed Event Listeners DOM Breakpoints Properties
 ▶ <head>...
/bead>
 * <body style="font-family: arial, sans-serif">
                                                                                           Ülter
                                                                                                                                    thow .cls
    «h1 style="color: blue:">An Overview of CS5</h1>
                                                                                           element.style {
  $ = DD = </D>
                                                                                              border-style: > solid;
   # Kp0\_
                                                                                              border-color: > mred:
    pie
                                                                                              border-width: > 5px;
   > p style="font-family: monospace;" = = 
   * p style border-style: solid: border-color: red: border-width: Spx: - -- #8
                                                                                                                           user agent stylesheet
                                                                                              display: block;
      We can put a border around a block of text.
                                                                                              -webkit-margin-before: len:
      You probably want a CSS cheat sheet handy
      or use Google to search to find CSS values.
                                                                                             -webkit-margin-after: len:
                                                                                             -webkit-margin-start: 8px;
    4/p>
                                                                                             -webkit-margin-end: 0px;
   b = ph_=/ps
   >_
                                                                                           Inherited from body
html body p
                                                                                           Style Attribute 4:
```



w «head»

CSS Rules

You put a set of rules in a <style> tag, and they are applied to parts of the documents that match the selectors.

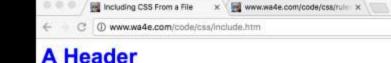
After a while we end up with far too many CSS rules to put in the <head> area of each document. A simpler way to include a large number of CSS rules is to put them in a separate file and a include that file in each of the pages. Go back to the Starting page.

Elements Console Sources Network Timeline Profiles Application Security Audits ×

0. ☆ . . .

```
Styles Computed Event Listeners DOM Breakpoints Properties
     title CSS Rules /title -- 58
                                                                                                 Filtre
                                                                                                                                           thov .cls +
   #<style>
                                                                                                element.style {
            font-family: arial, sans-serif;
                                                                                                                                    user agent stylesheet
          h1 {
                                                                                                title (
            color: blue:
                                                                                                   display: none;
            border-style: solid:
            border-color: red;
            border-width: 5px;
                                                                                                                  marpin
                                                                                                                    border
            color: green;
                                                                                                                      pedding -
            text-decoration: none;
                                                                                                                         auto + auto
            background-color: lightgray;
    =/style>
  </head>
 w <body>
    <h1>A Header</h1>
html head and
```

```
<html>
<head>
  <title>Including CSS From a File</title>
  <link type="text/css" rel="stylesheet" href="rules.css">
</head>
<body>
<h1>A Header</h1>
                                csev $ Is -I
                                total 32
                                -rw-r--r-- 1 csev staff 44 Dec 19 06:06 rules.css
                                -rw-r--r-- 1 csev staff 679 Dec 19 06:07 index.htm
                                -rw-r--r-- 1 csev staff 883 Dec 19 05:59 include.htm
                                -rw-r--r-- 1 csev staff 679 Dec 19 05:59 colors.htm
                                csev$
```



mark text so we can apply styling to the text or block.

By putting the CS

By putting the CSS rules into a separate file, it can be included many different web pages with a single "link" tag, usually in the "head" of the document.

*text/css" rel="stylesheet" href="rules.css">

Now that we have seen the three ways to indicate CSS styles in your HTML, we will look some HTML tags whose sole purpose is to

Go back to the Starting page.

Q # 6

0

```
Elements Console Sources Network Timeline Profiles Application Security Audits
 <htnl>
                                                                                           Styles Computed Event Listeners DOM Breakpoints Properties
 * <head>
    <title-Including CSS From a File</title>
                                                                                                                                  :hov .cls +
    k type="text/css" rel="stylesheet" href="rules.css">
                                                                                          element.style {
   </head>
 ▼ <body>
                                                                                          h1 (
                                                                                                                                    rules.rss:4
     <h1>A Header</h1> == 58
                                                                                             color: | blue;
   # _
     k type="text/css" rel="stylesheet" href="rules.css">
    user agent stylesheet
   ▶ , 
                                                                                             display: block;
    <!-- Ignore this for now :) ->
                                                                                             font-size: 2em;
   > p style="border-style: none; position:fixed; bottom: 10px; right: 10px;"> 
                                                                                             -webkit-margin-before: 8.67em;
   </body=
                                                                                             -webkit-margin-after: 0.67em;
 </html>
                                                                                             -webkit-margin-start: 8px;
                                                                                             -webkit-margin-end: @px:
                                                                                             font-weight: bold:
                                                                                          Inherited from body
hami body ht
```



span and div Tags

```
With CSS we wanted some tags that had no pre-existing style. So the <span
style="color: green;">span</span> tag was invented as the new "inline" tag
with no styling.
<div style="border: 1px blue solid;">
And the <strong>div</strong> tag is a new unstyled block tag with no padding,
margin, background-color, or anything else. So you could mark blocks with
the div tag and not inherit any default style.
<div style="border: 1px orange solid;">
And the <strong>div</strong> tags can be nested as well. Adding the 1-pixel
borders does take up a pixel of space.
</div>
You can add some text in the outer div.
</div>
```

With CSS we wanted some tags that had no pre-existing
Style. So the span
tag was invented as the new "inline" tag with no styling.

<div style="border: 1px blue solid;">
And the div tag is a new unstyled
block tag with no padding, margin, background-color,

the div tag and not inherit any default style.

<div style="border: 1px orange solid;">
And the div tags can be nested as well.

Adding the 1-pixel borders does take up a pixel of space.

</div>
You can add some text in the outer div.

</div>

or anything else. So you could mark blocks with

With CSS we wanted some tags that had no preexisting style. So the span tag was invented as the new "inline" tag with no styling.

And the **div** tag is a new unstyled block tag with no

padding, margin, background-color, or anything else. So you could mark blocks with the div tag and not inherit any default style.

And the **div** tags can be nested as well. Adding the 1

you can add some text in the outer div.

Wow - there really is no margin or padding on an unstyled **div** tag.

```
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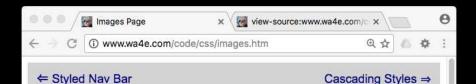
wiew-source:www.wa4e.co™ X

wiew-source:www.wa4e.co™ 
                  ① view-source:www.wa4e.com/code/css/classid.htm @ ☆
                                                                                                                                                                                 © view-source:www.wa4e.com/code/css/classid.htm @ ☆
  <html>
                                                                                                                                                                      as <body>
                                                                                                                                                                      m <hl>Selecting and Styling Tags</hl>
     <bead>
         <title>Gettin' Classy</title>
                                                                                                                                                                      m <div id="first">
          <style>
                                                                                                                                                                      34 >
              /* I wish this were the default */
                                                                                                                                                                      To avoid putting too much into the
                                                                                                                                                                      style
style
/strong> attribute,
              body {
                  font-family: arial, sans-serif;
                                                                                                                                                                     37 we can use the <strong>class</strong> and
                                                                                                                                                                      sstrong>id</strong> attributes to style
              #first /
                                                                                                                                                                      m a subset of the tags.
                  font-family: monospace;
                                                                                                                                                                      40 K/p>
                                                                                                                                                                      at 
                                                                                                                                                                      a An <strong>id</strong> tag must be unique
              #second {
                                                                                                                                                                      s through the document while the
                  color: green;
                                                                                                                                                                      44 <strong>class</strong> tag can be used on
              .morespace {
                                                                                                                                                                          many tags throughout the document.
                  margin-left: 20px;
                                                                                                                                                                      = </div>
                                                                                                                                                                      er <div id="second">
                  margin-right: 20px;
                                                                                                                                                                      48 
                                                                                                                                                                      We can use the <strong>class</strong>
              .shout
                                                                                                                                                                      s <span class="shout">all</span> throughout
                  text-transform: uppercase;
                                                                                                                                                                      so the <span class="shout">entire</span>
              .loud (
                                                                                                                                                                          document.
                  color: red;
                                                                                                                                                                      53 
                                                                                                                                                                      sk 
              /* Paragraph tags within a tag with id */
                                                                                                                                                                      m It is <strong class="shout">very cool</strong>
                                                                                                                                                                          to use classes. The can be used on any tag.
              #third p {
                  background-color: yellow;
                                                                                                                                                                      57 
                                                                                                                                                                      m 
                                                                                                                                                                      A tag can have more than one class!.
         </style>
      </head>
     <body>
                                                                                                                                                                      m </div>
<hl>Selecting and Styling Tags</hl>
                                                                                                                                                                      am <div id="third">
 m <div id="first">
34 
                                                                                                                                                                      44 You can even use a hierarchical selection string
To avoid putting too much into the
                                                                                                                                                                      m to style tags.
34 <strong>style</strong> attribute,
                                                                                                                                                                     M 
my we can use the <strong>class</strong> and
                                                                                                                                                                     67
```

```
Gettin' Cl. X W view-sou X W view-sou X
                                                               Gettin' Cl. X W view-sou X W view-sou X
                                                                                                                     Gettin' Cli x W view-soul x W view-soul x
     C (i) view-source:www.wa4e.com/cod... Q & /
                                                            C (i) www.wa4e.com/code/css/classi... Q & A &
                                                                                                                ○ ② view-source:www.wa4e.com/cod... ® ☆
                                                                                                              III 57 D3
<html>
                                                                                                              « 
                                                      Selecting and Styling Tags
* <head>
                                                                                                              a An <strong>id</strong> tag must be unique
    <title>Gettin' Classy</title>
                                                                                                              a through the document while the
    <style>
                                                                                                              44 <strong>class</strong> tag can be used on
      /* I wish this were the default */
                                                      To avoid putting too much into the style attribute,
                                                                                                              many tags throughout the document.
                                                      we can use the class and id attributes to style a
                                                                                                              m </div>
        font-family: arial, sans-serif;
                                                       subset of the tags.

<div id="second">
      #first /
                                                         An id tag must be unique through the document
                                                                                                              We can use the <strong>class</strong>
        font-family: monospace;
                                                         while the class tag can be used on many tags
                                                                                                              so <span class="shout">all</span> throughout
                                                         throughout the document.
                                                                                                              the <span class="shout">entire</span>
      #second {
                                                                                                              document.
        color: green;
                                                      We can use the class ALL throughout the ENTIRE
                                                                                                              53 
                                                      document.
                                                                                                              se 
      .morespace {
                                                                                                              M It is <strong class="shout">very cool</strong>
        margin-left: 20px;
                                                                                                              to use classes. The can be used on any tag.
                                                         It is VERY COOL to use classes. The can be used on
        margin-right: 20px;
                                                                                                              ST 
                                                        any tag.
                                                                                                              sa 
      .shout {
                                                                                                              M A tag can have more than one class!.
        text-transform: uppercase:
                                                      A TAG CAN HAVE MORE THAN ONE CLASS!
                                                                                                              40 
                                                                                                              m </div>
      .loud {
                                                      You can even use a hierarchical selection string to style
                                                                                                              w <div id="third">
        color: red:
                                                                                                              W You can even use a hierarchical selection string
      /* Paragraph tags within a tag with id */
                                                                                                              m to style tags.
                                                      In general it is nice to keep your HTML as clean and easily
      #third p {
                                                                                                              88 </n>
        background-color: yellow;
                                                      understood as possible as in this ⇒ simple navigation bar
                                                                                                              In general it is nice to keep your HTML as clean
                                                      example.
    </style>
                                                                                                              ss and easily understood as possible as in this
m </head>
                                                                                                              m <a href="navbar.htm">
n <body>
                                                                                                              7 ⇒ simple navigation bar
                                                                                Go back to the Starting page.
<h1>Selecting and Styling Tags</h1>
                                                                                                             /a> example.
m <div id="first">
```

Images, Colors, and Fonts



CSS and Images

It is fun to float an image to the left or right and watch the text wrap around it. You might want to add a bit of margin so the text does not crowd it. An **em** is the "height of the current font" so it scales when the size of the font is changed.



Sometimes we need to clear the "hanging wrap" when we want the next paragraph to go all the way to the margin - in effect "clearing the float".

Images can be right in the middle of text like a character. And we can even make an image a clickable link to the starting page.

```
i view-source:www.wa4e.com/code/css/images.htm
</a>
</nav>
<img src="medium.png" style="float:right; margin: lem;">
<h1>CSS and Images</h2>
It is fun to float an image to the left or
right and watch the text wrap around it.
You might want to add a bit of margin so the text
does not crowd it. An <strong>em</strong> is the
"height of the current font" so it scales when the size
of the font is changed.
<br clear="all"/>
Sometimes we need to clear the "hanging wrap"
when we want the next paragraph to go all the way
to the margin - in effect "clearing the float".
Images can be <img src="tiny.png"> right
```

in the middle of text like a character.

And we can even make an image a clickable

link to the starting page.

</body>

view-source:www.wa4e.com/c >

Images Page

Color Names

- W3C has listed 16 official color names that will validate with an HTML validator.
- The color names are: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, purple, red, silver, teal, white, and yellow.

Color Values

HTML colors can be defined as a hexadecimal notation for the combination of Red, Green, and Blue color values (RGB).

The lowest value that can be given to one light source is 0 (hex #00) and the highest value is 255 (hex #FF).

The table below shows the result of combining Red, Green, and Blue light sources:.

Color	Color HEX	Color RGB
116.000	#000000	rgb(0,0,0)
	#FF0000	rgb(255,0,0)
	#00FF00	rgb(0,255,0)
	#0000FF	rgb(0,0,255)
	#FFFF00	rgb(255,255,0)
	#00FFFF	rgb(0,255,255)
	#FF00FF	rgb(255,0,255)
	#C0C0C0	rgb(192,192,192)
	#FFFFF	rgb(255,255,255)

W3C Standard Color Names

W3C has listed 16 color names that will validate with an HTML validator.

The color names are: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, purple, red, silver, teal, white, and yellow.

http://www.w3schools.com/html/html_colors.asp

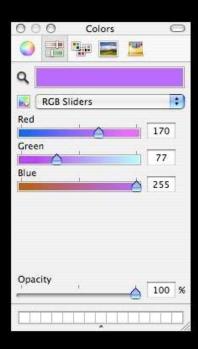
Advanced Colors...

Three numbers, Red, Green, and Blue - each from 00 - FF (Hexidecimal)

#ffffff = white
#000000 = black
 #ff0000 = red
#00ff00 = green
#0000ff = blue

#e2edff

Color Name	Color HEX	Color
<u>AliceBlue</u>	#F0F8FF	
<u>AntiqueWhite</u>	#FAEBD7	
<u>Aqua</u>	#00FFFF	
<u>Aquamarine</u>	#7FFFD4	
<u>Azure</u>	#F0FFFF	
<u>Beige</u>	#F5F5DC	
<u>Bisque</u>	#FFE4C4	
<u>Black</u>	#000000	
BlanchedAlmond	#FFEBCD	
<u>Blue</u>	#0000FF	
BlueViolet	#8A2BE2	
Brown	#A52A2A	



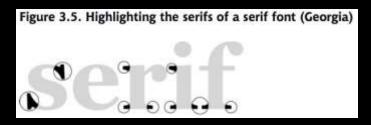
Web-safe colors

Fonts

- Default fonts are ugly and they have serifs - which make them harder to read on a screen
- So the first thing I usually want to do is override the fonts in my document
- And I want to do this everywhere

Header One

Paragraph about ugly default fonts.



Fonts

```
body {
  font-family: "Trebuchet MS", Helvetica, Arial, sans-serif;
  font-size: x-large;
}
```

Fallback fonts: serif, sans-serif, monospace, cursive, and fantasy

Font Factors

```
font-size:
```

xx-small

x-small

small

medium

large

x-large

xx-large

14px

font-weight: bold or normal

font-style: normal or italic

text-decoration: none, underline, overline, or line-through

Styling for Links



Post-Click:

Hello there my name is Chuck.

Go ahead and click on here.

Browser default styling for links is downright ugly!

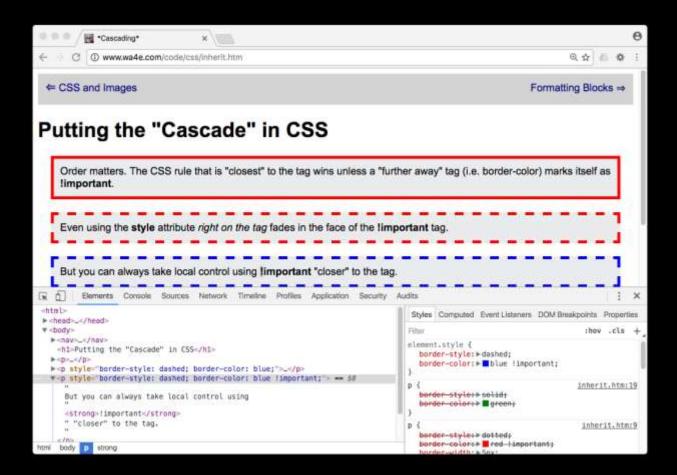
```
font-weight: bold;
a:link {
  color: black;
a:visited {
 color: gray;
a:hover {
 text-decoration: none;
 color: white;
 background-color: navy;
a:active {
 color: aqua;
 background-color: navy;
```

Styling Links

link - before a visit
visited - after it has been visited
hover - when your mouse is over it
but you have not clicked
active - you have clicked it and you
have not yet seen the new page

Many More Samples

dj4e.com



CSS Summary

- CSS layout is its own art and science.
- CSS basics are well established and well supported in all modern browsers.
- Site layout and markup is further evolving mostly to make it increasingly possible to support desktop-like experiences on the web and mobile.
- These innovations will naturally cause incompatibilities which make things interesting and frustrating at times.

Acknowledgements / Contributions



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