CGS 3175: Internet Applications Fall 2007

Advanced XHTML & CSS - Part 3

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Things to Try Yourself (From Part 2)

- 20. Modify the form from Things to Try Yourself #19 (Part 1) so that it uses <fieldset> tag to group the check boxes together as well as the radio boxes.
- 21. Create the XHTML document that would produce the form shown on the next page.



```
XHTML document for
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
                                                                    Practice Problem #20.
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
                                                                      Note that the CSS
<html xmlns="http://www.w3.org/1999/xhtml" >
                                                                   document is the same as
<head>
                                                                   for Practice Problem #19
<title>Music Survey - Practice Problem 19</title>
                                                                         from Part 2.
<link rel="stylesheet" href="pp19CSS.css" type="text/css" />
</head>
<body >
<h2>Music Survey</h2>
<div id="myForm">
<form id="music" action="mailto:markl@cs.ucf.edu" method="post" enctype="text/plain">
  <div class="myRow">
    <span class="labelCol">Name:&nbsp;&nbsp;</span>
   <span><input type="text" name="myName" id="myName" /></span>
  </div>
  <div class="myRow">
    <span class="labelCol">E-mail:&nbsp;&nbsp;</span>
   <span><input type="text" name="myEmail" id="myEmail" /></span>
  </div>
  <div> <fieldset><legend>Select Your Favorite Types Of Music</legend>
        <input type="checkbox" id="pop" value="yes" /><label>Pop</label><br />
        <input type="checkbox" id="rock" value="yes" /><label>Rock</label><br/>
        <input type="checkbox" id="hip-hop" value="yes" /><label>Hip-Hop</label><br />
        <input type="checkbox" id="classical" value="yes" /><label>Classical</label><br/>><br/>/>
        <input type="checkbox" id="country" value="yes" /><label>Country</label><br />
        <input type="checkbox" id="folk" value="yes" /><label>Folk</label><br />
        <input type="checkbox" id="other" /><label>Other</label><br />
        </fieldset>
```



</div>

```
<div><br /></div>
  <div>
    <fieldset><legend>Select how often you purchase music CDs:</legend>
        <input type="radio" name="rb" id="daily" value="daily" /><label>Daily</label><br />
          <input type="radio" name="rb" id="weekly" value="weekly" /><label>Weekly</label><br/>br
/>
        <input type="radio" name="rb" id="monthly" value="monthly"</pre>
/><label>Monthly</label><br />
        <input type="radio" name="rb" id="occasionally" value="occasionally"</pre>
/><label>Occasionally</label><br />
        <input type="radio" name="rb" id="never" value="never" /><label>Never</label><br />
     </fieldset>
  </div>
  <div></div>
  <div class="myRowComments">
    <span class="labelCol">Comments:&nbsp;&nbsp;</span>
    <textarea name="myComments" id="myComments" rows="2" cols="60"></textarea>
  </div>
  <div class="myRow">
    <input type="submit" value="Submit Form" />
  </div>
</form>
</div>
</body>
</ht.ml>
```



View Favorites Tools Google G-Settings ▼ **Music Survey** Solution to Practice Name: Problem #20 E-mail: rendered in Internet Select Your Favorite Types Of Music Explorer 7 Pop Rock ☐ Hip-Hop □ Classical □ Country Folk Other Select how often you purchase music CDs: O Daily Weekly Monthly Occasionally O Never Comments: Submit Form My Computer 100% Done

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🍪 Music Survey - Practice Problem 19 - Mozilla Firefox File Edit View History Bookmarks Tools Help File:///E:/Courses/CG5%203175%20-%20Internet ▼ ▶ Google Customize Links 📄 Free Hotmail 📄 Windows Marketplace 📄 Windows Media 📄 Windows Music Survey Solution to Practice Name: Problem #20 E-mail: rendered in Mozilla Select Your Favorite Types Of Music FireFox 2 □ Pop Rock ☐ Hip-Hop □ Classical □ Country □ Folk Other Select how often you purchase music CDs: O Daily Weekly Monthly Occasionally O Never Comments: Submit Form Waiting for i.l.cnn.net...

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Practice Problem 20</title>
</head>
<body >
<h2>Please Complete Our Survey</h2>
<div>
<form id="survey1" action="mailto:markl@cs.ucf.edu" method="post" enctype="text/plain">
<div style="position:absolute; left:20px; top:75px; width:300px; height:200px;"> First
Name:</div>
<div style="position:absolute; left:100px; top:75px; width:300px; height:200px;">
    <input type="text" id="firstname" size="10" maxlength="15" />
</div>
<div style="position:absolute; left:200px; top:75px; width:300px,</pre>
height:200px;">MI:</div>
<div style="position:absolute; left:235px; top:75px; width:300px; height:200px;">
    <input type="text" id="initial" size="1" />
</div>
<div style="position:absolute; left:285px; top:75px; width:300px; height:200px;"> Last
Name:</div>
<div style="position:absolute; left:360px; top:75px; width:300px; height:200px;">
    <input type="text" id="lastname" size="10" maxlength="18" />
</div>
<div style="position:absolute; left:20px; top:110px; width:300px; height:200px;">
City:</div>
<div style="position:absolute; left:100px; top:110px; width:300px; height:200px;">
    <input type="text" id="city" size="10" maxlength="13" />
</div>
```

```
<div style="position:absolute; left:200px; top:110px; width:300px; height:200px;">
State:</div>
<div style="position:absolute; left:235px; top:110px; width:300px; height:200px;">
    <input type="text" id="state" size="2" />
</div>
<div style="position:absolute; left:285px; top:110px; width:300px; height:200px;"> Zip
code:</div>
<div style="position:absolute; left:360px; top:110px; width:300px; height:200px;">
    <input type="text" id="zip" size="5" />
</div>
<div style="position:absolute; left:20px; top:145px; width:300px; height:200px;">
  <fieldset> <legend>Choose Your Favorite Sport</legend>
  <input type="checkbox" /><label>Cycling</label><br />
  <input type="checkbox" /><label>Softball</label><br />
  <input type="checkbox" /><label>Formula One</label><br />
  <input type="checkbox" /><label>Table Tennis</label><br />
 </fieldset>
 <fieldset><legend>Choose Your Class</legend>
  <input type="radio" name="rb" value="freshman" /><label>Freshman</label><br />
  <input type="radio" name="rb" value="sophomore" /><label>Sophomore</label><br/>>
  <input type="radio" name="rb" value="junior" /><label>Junior</label><br/>br />
  <input type="radio" name="rb" value="senior" /><label>Senior</label><br/>br />
 </fieldset>
 <fieldset><legend>Choose Your Favorite Food</legend>
   <select size="3">
     <option> Pizza</option>
     <option> Mexican
     <option> Chinese
     <option> Burgers and Fries/option>
     <option> Any Fast Food
     <option> Other</option>
  </select>
```



```
</fieldset>
<textarea rows="3" cols="50">Please let us know your comments on our site --</textarea>
<input type="submit" value="Submit Survey" />
<input type="reset" value="Clear Form" />
</div>
</form>
</div>
</body>
</body>
</br/>

<a href="a reset " value = "Submit Survey" />

<a href="a reset " value = "Clear Form" />

<a href="a reset " value = "Clear Form" //>

<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = "Clear Form" // >

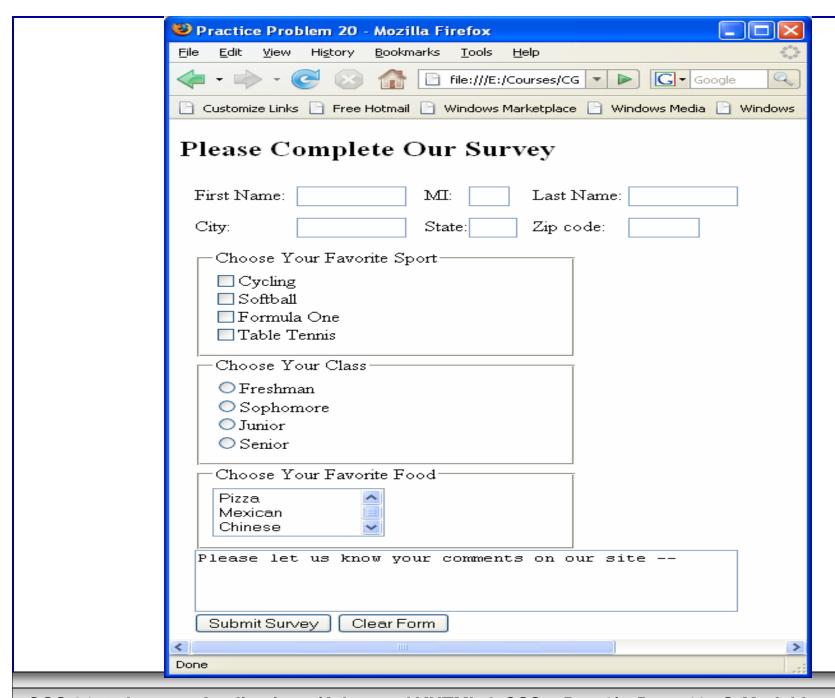
<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = "Clear Form" // >

<a href="a reset " value = " value = " value = " va
```





CSS Styling For Print

- Even though the advent of the "paperless society" has been talked about for decades, the fact is that many people still love paper and you can expect your Web pages to be printed by visitors to your site.
- CSS offers you some control over what gets printed and how the printouts are configured.
- This is straightforward with external style sheets. You simply create one style sheet with the configurations for browser display and a second external style sheet with the special printing configurations.
- Both style sheets are referenced from the same XHTML document using two <link> tags.
- The tags will utilize a new attribute, called media.
- The tag for the browser will use the media="screen" configuration, while the tag for the printer version will use the media="print" configuration.



CSS Styling For Print

- Current browsers will use the correct style sheet depending on whether they are rendering a screen display or preparing to print a document.
- Often display: none is used in the print style sheet to prevent banner ads, navigation, or other extraneous areas from appearing in the printout.
- Another common practice is to configure the font sizes on the print style sheet to use pt sizes this will better control the text presentation in the printout.
- You can also use styles to configure areas in the document, such as detailed contact information, that are only printed out and do not appear in the browser window.



Media Types Defined Under CSS2

Media Type	Definition
all	For use with all devices.
aural	For use with speech synthesizers
Braille	For use with tactile Braille devices
embossed	For use with Braille printers
handheld	For use with handheld devices
print	For use with printed material and documents viewed onscreen in print preview mode.
projection	For use with projected media (direct computer to projector presentations), or printing transparencies for projection.
screen	For use with color computer screens
tty	For use with low-resolution teletypes, terminals, or other devices with limited display capabilities.
tv	For use with television-type devices.



CSS Styling For Print

- If you want to see what a page will look like when it is printed, from the browser window, select the print preview option (this is usually in the File menu).
- To illustrate generating different style sheets for browsers and printers, let's go back to the Web page we created in Web Page Layouts Part 1 (see page 53 for a screen shot of the web page) and modify this example.
- Shown on the next page is the Print Preview of the content page for this earlier example. Notice that the print preview includes the navigation area.
- On page 16 is the modified XHTML document for this page that includes the new link> tags.



Professional Cycling 2007

Home Spring Summer Fall Winter

The professional cycling seaon spans from late January to early November on the road. During the winter months the activity switches to cyclo-cross or indoor track racing. There are professional riders



in more than 100 nations. The highest concentration of professional riders is in Europe where Belgians, Italians, and French riders are the most numerous. One of the more famous recent professional riders is Lance Armstrong of the US who won an unprecedented 7 Tour de France races in a row. One of the most famous professionals of all time is Belgian Eddy Merckx who won virtually every professional race on the calendar. One of the current stars of professional racing is Tom Boonen, a Belgian following in the foot steps of Eddy Merckx. Last season Boonen won 28 races.

Explore some of the action from the 2007 season....



Professional Racing By The Season

Spring Summer Fall Winter

Copyright © 2007 Professional Cyding Fan Club Last Updated on 10/11/2007



```
media attribute.
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Professional Cycling 2007</title>
<link media="screen" rel="stylesheet" href="procyclingstyles.css" type="text/css" />
<link media="print" rel="stylesheet" href="printprocyclingstyles.css" type="text/css" />
</head>
<body>
                                       New link to new CSS sheet to handling styles for printed version.
<div>
  <imq id="imagelogo" src="axel.jpg" alt="A professional bike" width="300" height="250"</pre>
/>
</div>
<div id="contentlogo">
  <h1>Professional Cycling 2007</h1>
  <vib><</ri>
  <a class="nav" href="home.htm">Home</a> <a class="nav" href="spring.htm">Spring</a> <a</pre>
class="nav" href="summer.htm">Summer</a> <a class="nav" href="fall.htm">Fall</a> <a
class="nay" href="Winter">Winter</a>
  </div>
</div>
<div class="content">
  The professional cycling seaon spans from late January to early November on the
road. During the winter months
      the activity switches to cyclo-cross or indoor track racing. There are
professional riders in more than 100 nations. The highest concentration of
      professional riders is in Europe where Belgians, Italians, and French riders are
the most numerous. One of the more famous
      recent professional riders is Lance Armstrong of the US who won an unprecedented 7
```



Link to original CSS sheet with new

```
Tour de France races in a row. One of the most famous
      professionals of all time is Belgian Eddy Merckx who won virtually every
professional race on the calendar.
      One of the current stars of professional racing is Tom Boonen, a Belgian
following in the foot steps of Eddy Merckx. Last season Boonen won
      28 races.
  Explore some of the action from the 2007 season....
  <imq class="floatleft" src="crash1.jpq" alt="2007 Pro Peloton in the Tour de France"</pre>
width="80" height="100"/>
  <div class="content1"><h2>Professional Racing By The Season</h2>
     <div><a class="contentlink" href="spring.htm">Spring</a></div>
     <div><a class="contentlink" href="summer.htm">Summer</a></div>
     <div><a class="contentlink" href="fall.htm">Fall</a></div>
     <div><a class="contentlink" href="winter.htm">Winter</a></div>
  </div>
  <div class="footer">
Copyright © 2007 Professional Cycling Fan Club<br />
Last Updated on 10/11/2007
  </div>
</div>
</body>
</html>
```



```
/* PRINTER Version - printprocyclingstyles.css */
/* Pro Cycling Style Sheet */
/* MJL - October 2007
#contentlogo{background-color:#00CCFF;
      color: #000000;
       font-size:24pt; /* set as "larger" in screen version */
      padding:10px;
#imagelogo {float:right;
          margin: Opx Opx 5px 5px;
             border: solid;
.nav {padding: 5px;
      background-color:#00CCFF;
      color:#000066;
      text-decoration:none;
      font-family:Verdana, Arial, sans-serif;
      width:90px;
      text-align:center;
      display:none; /* not set in browser version */
a.nav:link {color:#000066;
          background-color:#00CCFF;
a.nav:visited {color:#000000;
         background-color:#00CCFF;
a.nav:hover {color:#ffffff;
          background-color:#00CCFF;
```





Professional Cycling 2007

The professional cycling seaon spans from late January to early November on the road. During the winter months the activity switches to cyclo-cross or



indoor track racing. There are professional riders in more than 100 nations. The highest concentration of professional riders is in Europe where Belgians, Italians, and French riders are the most numerous. One of the more famous recent professional riders is Lance Armstrong of the US who won an unprecedented 7 Tour de France races in a row. One of the most famous professionals of all time is Belgian Eddy Merckx who won virtually every professional race on the calendar. One of the current stars of professional racing is Tom Boonen, a Belgian following in the foot steps of Eddy Merckx. Last season Boonen won 28 races.

Explore some of the action from the 2007 season....



Professional Racing By The Season

Spring Summer Fall

Winter
Copyright © 2007 Professional Cycling Fan Club
Last Updated on 10/11/2007



Professional Cycling 2007

Home Spring Summer Fall Winter

The professional cycling seaon spans from late January to early November on the road. During the winter months the activity switches to cyclo-cross or indoor track racing. There are professional riders



in more than 100 nations. The highest concentration of professional riders is in Europe where Belgians, Italians, and French riders are the most numerous. One of the more famous recent professional riders is Lance Armstrong of the US who won an unprecedented 7 Tour de France races in a row. One of the most famous professionals of all time is Belgian Eddy Merckx who won virtually every professional race on the calendar. One of the current stars of professional racing is Tom Boonen, a Belgian following in the foot steps of Eddy Merckx. Last season Boonen won 28 races.

Explore some of the action from the 2007 season....



Professional Racing By The Season

Spring Summer Fall Winter

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Print preview without printer version of style sheet

Professional Cycling 2007

The professional cycling seaon spans from late January to early November on the road. During the winter months the activity switches to cyclo-cross or



indoor track racing. There are professional riders in more than 100 nations. The highest concentration of professional riders is in Europe where Belgians, Italians, and French riders are the most numerous. One of the more famous recent professional riders is Lance Armstrong of the US who won an unprecedented 7 Tour de France races in a row. One of the most famous professionals of all time is Belgian Eddy Merckx who won virtually every professional race on the calendar. One of the current stars of professional racing is Tom Boonen, a Belgian following in the foot steps of Eddy Merckx. Last season Boonen won 28 races.

Explore some of the action from the 2007 season....



Professional Racing By The Season

Spring Summer Fall

Winter
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Last Updated on 10/11/2007

Print preview with printer version of style sheet



The @media Rule

- The @media rule is used within a style sheet to enclose rules where you can make style sheet adjustments based on the medium.
- This rule is particularly useful if the style adjustments between the browser and print version of a document are not large and do not warrant an entire stylesheet for each version.
- An example of the @media rule is shown on the next page.



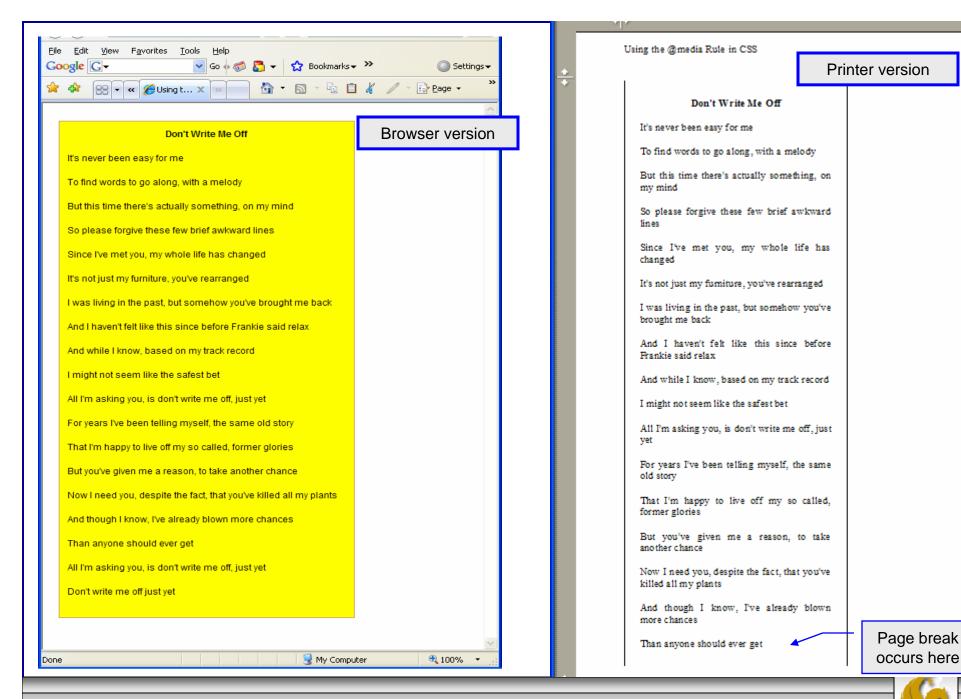
```
<?xml version="1.0" encoding="UTF-8"?>
                                                            Example Using The
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
                                                               @media Rule
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Using the @media Rule in CSS</title>
<link rel="stylesheet" href="mediaruleCSS.css" type="text/css" />
</head>
<body>
  It's never been easy for me
 To find words to go along, with a melody
  But this time there's actually something, on my mind
  So please forgive these few brief awkward lines 
 <q><q>
 < Since I've met you, my whole life has changed</p>
  It's not just my furniture, you've rearranged
 I was living in the past, but somehow you've brought me back
  And I haven't felt like this since before Frankie said relax 
   And while I know, based on my track record
 I might not seem like the safest bet
 All I'm asking you, is don't write me off, just yet
 For years I've been telling myself, the same old story
 That I'm happy to live off my so called, former glories
 Sut you've given me a reason, to take another chance
 Now I need you, despite the fact, that you've killed all my plants
  And though I know, I've already blown more chances
 Than anyone should ever get
 < I'm asking you, is don't write me off, just yet</p>
 >Don't write me off just yet
</body>
</html>
```



CSS Style Sheet For The @media Rule Example

```
/* CSS stylesheet for using media rule.html
@media screen {
    div {
         width:350px;
         height:680px;
         padding:10px;
         margin:10px;
         border:1px solid #CC9966;
         background:yellow;
         font:12px sans-serif;
@media print {
    div {
         width:3in;
         padding:0.25in;
         border: 1pt solid black;
         text-align: justify;
```





Controlling Page Breaks

• Two print properties (or paged media properties as they are referred to by the W3C), that all popular browsers have in common are page-break-before and page-break-after.

Property	Value
page-break-before	auto, always, avoid, left, right (default value is auto)
page-break-after	auto, always, avoid, left, right (default value is auto)

Note: FireFox, Safari, IE6, and IE7 support only always and auto. Opera supports all of the value keywords.



Using the @media Rule in CSS

Don't Write Me Off

It's never been easy for me

To find words to go along, with a melody

But this time there's actually something, on my mind

So please forgive these few brief awkward lines

Since I've met you, my whole life has changed

It's not just my furniture, you've rearranged

I was living in the past, but somehow you've

Both pages of the printer version of the document. We'll modify the CSS to place the page break where we want it to appear.

Using the @media Rule in CSS

Page 1 of 2

Page 2 of 2

All I'm asking you, is don't write me off, just vet

Don't write me off just yet

And while I know, based on my track record

And I haven't felt like this since before

I might not seem like the safest bet

Frankie said relax

All I'm asking you, is don't write me off, just yet

For years I've been telling myself, the same old story

That I'm happy to live off my so called, former glories

But you've given me a reason, to take another chance

Now I need you, despite the fact, that you've killed all my plants

And though I know, I've already blown more chances

Than anyone should ever get



Modified CSS Style Sheet For The @media Rule Example With Page Breaks For Print Version

```
/* CSS style sheet for using media rule.html
@media screen {
    div {
         width:350px;
         height:680px;
         padding:10px;
                                                       Note that we've added the
         margin:10px;
         border:1px solid #CC9966;
                                                       page-break-before
         background: yellow;
                                                       property only to a
         font:12px sans-serif;
                                                       paragraph identifier in the
                                                       @media rule that applies to
                                                       the print media version.
@media print {
    div {
         width:3in;
         padding: 0.25in;
         border: 1pt solid black;
         text-align: justify;
    p#before { page-break-before: always;
```



Modified XHTML For The @media Rule Example With Page Breaks For Print Version

We want to force the page break in the printed version to appear before the paragraph that starts "For years I've....", so at that point we add the paragraph tag that uses the "before" identifier we defined in the CSS style sheet. Results are shown on the next page.

```
 And while I know, based on my track record
  I might not seem like the safest bet
  All I'm asking you, is don't write me off, just yet

  For years I've been telling myself, the same old story
  That I'm happy to live off my so called, former glories
  PBut you've given me a reason, to take another chance
  Now I need you, despite the fact, that you've killed all my plants
```



Using the @media Rule in CSS Page 1 of 2

Don't Write Me Off

It's never been easy for me

To find words to go along, with a melody

But this time there's actually something, on my mind

So please forgive these few brief awkward lines

Since I've met you, my whole life has changed

It's not just my furniture, you've rearranged

I was living in the past, but somehow you've brought me back

And I haven't felt like this since before Frankie said relax

And while I know, based on my track record

I might not seem like the safest bet

All I'm asking you, is don't write me off, just vet

Page break occurs before the start of this paragraph!

Using the @media Rule in CSS

Page 2 of 2

For years I've been telling myself, the same old story

That I'm happy to live off my so called, former glories

But you've given me a reason, to take another chance

Now I need you, despite the fact, that you've killed all my plants

And though I know, I've already blown

Than anyone should ever get

All I'm asking you, is don't write me off, just vet

Don't write me off just yet



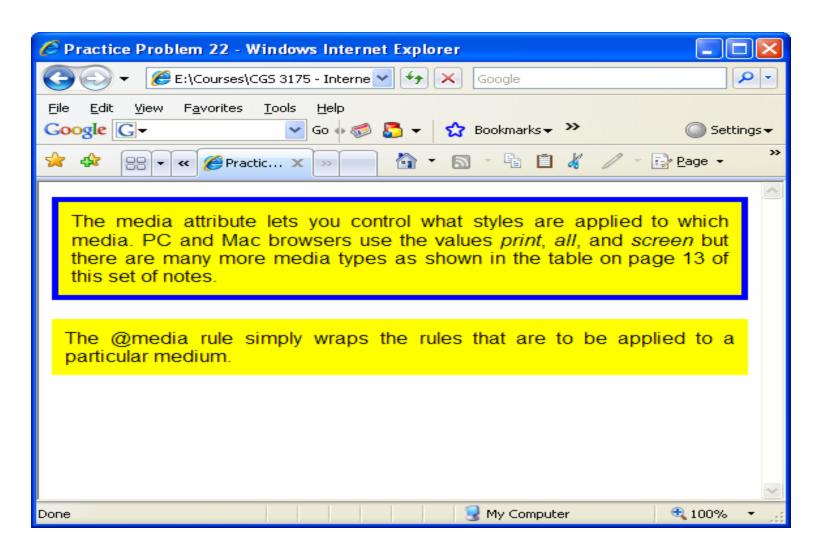
Things to Try Yourself

- 22. Create an external CSS style sheet for the XHTML document shown on the next page that will produce the browser version and print version which are shown on page 33.
 - Note: you will need to slightly modify the XHTML document by (1) adding the link tag for the external style sheet and (2) modifying the paragraph tags for the style sheet identifiers you create.
 - Note: The border on the screen version is 5px wide and on the print version it is 10pt wide. The font size for the paragraphs is set at 16pt.



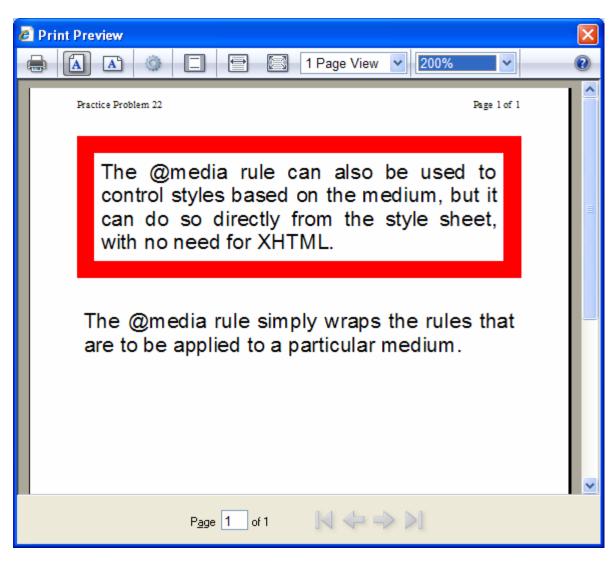
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Practice Problem 22 </title>
</head>
<body>
   >
       The media attribute lets you control what styles are applied to which
       media. PC and Mac browsers use the values <i>print</i>, <i>all</i>,
and <i>screen</i>
       but there are many more media types as shown in the table on page 13
of this set of notes.
   >
       The @media rule can also be used to control styles based on the
medium, but it can do so
       directly from the style sheet, with no need for XHTML.
   <q\>
   >
       The @media rule simply wraps the rules that are to be applied to a
particular medium.
   </body>
</html>
```





The browser version of the document





The print version of the document

