

Instructor Material  
 Web Development & Design Foundations: HTML5 & CSS3  
 Chapter 3

## Apply Your Knowledge

### 1. Predict the Result.

The students will sketch out a page with the following components: “Trillium Media Design” page title, a web page with blue background color and gray text using Arial font, “Trillium Media Design” as a heading with blue text and a white background color, blue text, a navigation area with hyperlinks to the designated files, a paragraph of text, and a page footer with copyright information displayed in italic, small font.

### 2. Fill in the Missing Code.

The suggested solution is below with the missing code is shown in red.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Trillium Media Design</title>
<meta charset="utf-8">
<style>
  body { background-color: #0066CC;
        color: "#FFFFFF"; }
  h1 { "font-family": "Arial, sans-serif" }
</style>
</head>
<body>
<h1>Trillium Media Design</h1>
  <p>Our professional staff takes pride in its working relationship
    with our clients by offering personalized services that listen to
    their needs, develop their target areas, and incorporate these items
    into a website that works.
  </p>
</body>
</html>
```

### 3. Find the Error.

The page is missing the closing `</style>` tag.

## Hands-On Exercises

1. `<p style="background-color:#FF0000;color:#FFFFFF">text goes here</p>`

2.  
`<style>`  
 `body { background-color: #eaeaea;`  
 `color: #000033; }`  
`</style>`

**3.**  
**body { font-family: Arial, Verdana, sans-serif;  
font-size: 1.2em;  
color: #996600; }**

**4.**  
**<style>  
.new { font-weight: bold;  
font-style: italic; }  
</style>**

**5.**  
**<style>  
a { text-decoration: none;  
background-color: #FFFFFF;  
color: #000000;  
font-family: Arial, Helvetica, sans-serif; }  
.new { font-weight: bold;  
font-style: italic; }  
</style>**

**6.**  
**body { background-color: #FFF8DC;  
color: #000099;  
font-family: Arial, Helvetica, sans-serif; }  
#new { font-weight: bold;  
font-style: italic; }**

## **7. Practice with External Style Sheets.**

### **Step A**

File: format1.css

```
body { background-color: #FFFFFF;  
color: #000099;  
font-family: Arial, Helvetica, sans-serif; }  
a { background-color: #CCCCCC; }  
h1 { font-family: "Times New Roman", serif;  
color: #FF0000; }
```

### **Step B**

File: format2.css

```
body { background-color: #FFFF66;
        color: #00FF00; }
a { background-color:#FFFFFF; }
h1 {font-family: "Times New Roman",serif;
    background-color: #FFFFFF;
    color: #00FF00; }
```

## Step C

Answers will vary. The code below is a suggested solution.  
File: moviecss1.htm

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Trillium Media Design</title>
<meta charset="utf-8">
<link rel="stylesheet" href="format1.css">
</head>
<body>
  <h1>The Matrix</h1>
  <p> Everyday life is turned upside-down when Thomas Anderson
  discovers that the world around him is a detailed virtual reality
  created by a computer that has taken over the Earth of the future. When
  Anderson realizes of his predicament he teams up with Morpheus, the
  leader of a gang of freedom fighters, to reclaim their individuality
  and 'wake up' the world.</p>
  <ul>
    <li>Keanu Reeves</li>
    <li>Carrie Anne Moss</li>
  </ul>
  <p><a href="http://www.movie-page.com/1999/Matrix.htm">Movie-
  Page.com</a></p>
  <p><a
  href="mailto:webdevfoundations@hotmail.com">webdevfoundations@hotmail.c
  om</a></p>
</body>
</html>
```

## Step D

Answers will vary. The code below is a suggested solution.  
Save moviecss1.htm as movie2css.htm and modify as follows:  
Change

```
<link rel="stylesheet" href="format1.css">
to
<link rel="stylesheet" href="format2.css">
```

The color combinations are exaggerated, challenge your students to find more pleasing colors. This can be a good start of a class discussion on the use of color to set a mood. When are bright colors acceptable? When should colors be muted?

## 8. More Practice with the Cascade.

## Step A

File: advantage.htm

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Trillium Media Design</title>
<meta charset="utf-8">
<link rel="stylesheet" href="ex8.css" >
</head>
<body>
  <h1>CSS Advantages</h1>
  <ul>
    <li>Styles can be stored in a separate document and linked to from
the web page.</li>
    <li>Potentially smaller documents</li>
    <li class="news"> Easier site maintenance </li>
  </ul>
  <p><a href=" http://www.w3.org/Style/CSS/">W3C CSS
Information</a></p>
  <p><a
href="mailto:webdevfoundations@hotmail.com">webdevfoundations@hotmail.c
om</a></p>
</body>
</html>
```

## Step B

File: ex8.css

```
body { background-color: #FFFFFF;
        color: #000099;
        font-family: Arial, Helvetica, sans-serif; }
a { background-color: #CCCCCC; }
h1 {font-family: "Times New Roman", serif;
     color: #000000; }
.news { color: #FF0000;
        font-style: italic; }
```

**Step C** This step requires the student to test their work. There is no additional code in this step.

## Step D

Revised File: ex8.css

```
body { background-color: #000000;
        color: #FFFFFF;
        font-family: Arial, Helvetica, sans-serif; }
a { background-color: #CCCCCC; }
h1 { font-family: "Times New Roman", serif;
     color: #CCCCCC; }
.news { color: #FF0000;
        font-style: italic; }
```

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The color combinations are exaggerated, challenge your students to find more pleasing colors. This can be a good start of a class discussion on the use of color to appeal to the intended audience of a web site.

### **Step E**

Students will modify the advantage.html file by adding the following attribute to the h1 element: `style="color: #FF0000;"`

## **9. Practice Validating CSS.**

Student answers will vary.

### **Web Research**

Your students' answers to these research assignments will vary, but they should contain most of the information described below.

#### **1. Research: CSS Resources**

Your students' answers should vary as they find five resources for CSS on the web. There is no right or wrong answer (unless they make up the URLs, of course). Each student should create a web page that describes five CSS resources. The page should contain a table that includes the URLs and a brief description of the resource sites. Check the text's web site at <http://www.webdevfoundations.net> for additional resources.

#### **2. Research: CSS Tutorials**

Your students' answers should vary. They will each find and use information from a CSS tutorial on the web. They will apply what they have learned on the web page they create that includes the URL of the tutorial and a description of the new technique. Check the text's web site at <http://www.webdevfoundations.net> for additional tutorial sites.

### **Focus on Web Design**

Your students' answers will vary but will include:

1. A color scheme with at least four colors
2. A description of how the colors were selected and for what type of website the colors would be appropriate. URLs of resources are included.
3. A file named color1.css that configures font properties, text color, and background color selections for the document, h1 selector, p selector, and footer class using the colors the student chose.
4. A file named color1.html that is associated with color1.css and displays examples of the styles.