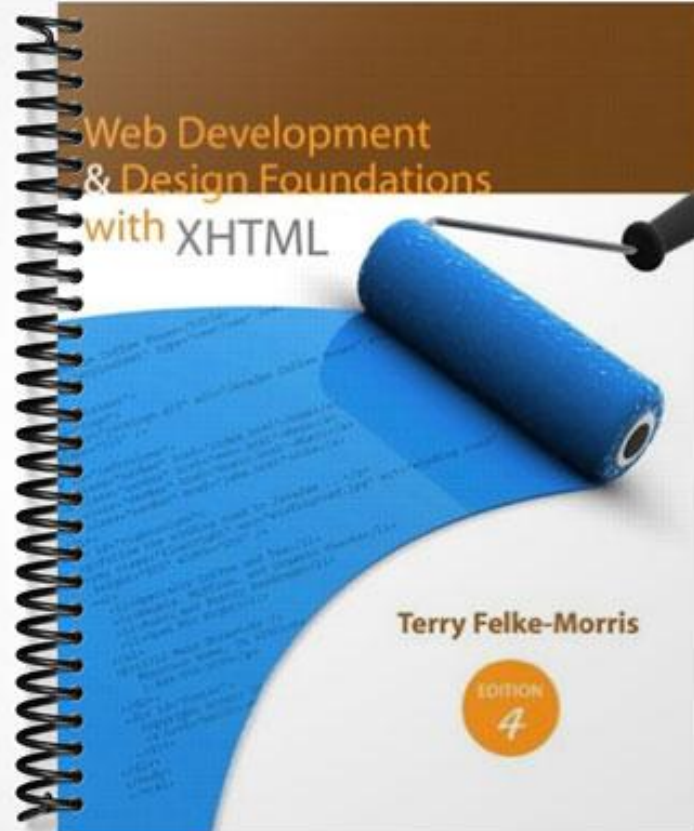


# SOLUTIONS MANUAL



Web Development  
& Design Foundations  
with XHTML

Terry Felke-Morris

EDITION  
4

## Apply Your Knowledge

### 1. Predict the Result.

The students will sketch out a page with the following components: "Predict the Result" page title, "Favorite Sites" as a heading in italics, an unordered list containing hyperlinks to myspace.com and google.com, and a page footer with copyright symbol and information in a small font size.

### 2. Fill in the Missing Code.

The missing code is shown in red.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Door County Wild Flowers</title>
</head>
<body>
  <h1>Door County Wild Flowers</h1>
  <dl>
    <dt>Trillium</dt>
    <dd>This white flower blooms from April through June in wooded areas.</dd>
    <dt>Lady Slipper</dt>
    <dd>This yellow orchid blooms in June in wooded areas.</dd>
  </dl>
</body>
</html>
```

### 3. Find the Error.

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

## Hands-On Exercises

1. `<h1>Your Name Here</h1>`
2. `<a href="http://yahoo.com">Yahoo!</a>`
3. `<ul>`
  - `<li>Monday</li>`
  - `<li>Tuesday</li>`

```
<li>Wednesday</li>
<li>Thursday</li>
<li>Friday</li>
<li>Saturday</li>
<li>Sunday</li>
</ul>
```

```
4. <ol type="A">
    <li>HTML</li>
    <li>XHTML</li>
    <li>XML</li>
</ol>
```

5. Answers will vary. Here is a sample solution.

```
<h1>Arthur C. Clarke</h1>
<p>Any sufficiently advanced technology is indistinguishable from magic.</p>
```

```
6. <p>A diagram of the organization of a web site is called a <strong>site
map</strong> or <strong>storyboard</strong>. <em>Creating the <strong>site
map</strong> is one of the initial steps in developing a web site.</em></p>
```

7. Answers will vary. Here is a sample with the minimum requirements.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>The Matrix</title>
</head>
<body>
<h1>The Matrix</h1>
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.<br />
```

```
<h3>The Cast:</h3>
<ul type="square">
  <li>Keanu Reeves</li>
  <li>Laurence Fishburne</li>
  <li>Carrie-Anne Moss</li>
  <li>Hugo Weaving</li>
  <li>Joe Pantoliano</li>
</ul>
<p> <a href="http://www.metacritic.com/video/titles/matrix">Review of The
Matrix</a></p>
</body>
</html>
```

8. Answers will vary. Here is a sample with the minimum requirements.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Network Protocols</title>
</head>
<body>
<h1>Network Protocols</h1>
<dl>
  <dt>TCP Transmission Control Protocol</dt>
  <dd>TCP is a set of rules that breaks files and messages into individual units
called packets, verifies the integrity of the packets upon receipt, and reassembles the
packets into the file or message at the destination. </dd>
  <dt>IP Internet Protocol</dt>
  <dd>IP is a set of rules that controls how data is sent between computers on the
Internet. It usually works together with TCP. Each computer connected to the
Internet is assigned at least one numeric IP address that uniquely identifies it. </dd>
  <dt>HTTP Hypertext Transfer Protocol</dt>
  <dd>HTTP is a set of rules for exchanging files such as text, graphic images,
sound, video, and other multimedia files on the Web. Web browsers and web
servers usually use this protocol.</dd>
</dl>
<p><a
href="http://compnetworking.about.com/od/networkprotocols/Network_Protocols.h
tm">More information about protocols</a></p>
</body>
</html>
```

9. Answers will vary. Here is a sample with the minimum requirements.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>The Beatles</title>
</head>
<body>
<h1><a href="http://beatles.com">The Beatles</a></h1>
<h3>Group Members:</h3>
<ul type="square">
  <li>John Lennon</li>
  <li>Paul McCartney</li>
  <li>George Harrison</li>
  <li>Ringo Starr</li>
</ul>
<h3>Favorite CDs:</h3>
<dl>
  <dt>Abbey Road</dt>
  <dd>This is considered by most to be the Beatles best album.Favorite tracks:
Something, Oh! Darling, Here Comes the Sun</dd>
  <dt>Let It Be</dt>
  <dd>This is the last album that the Beatles recorded. Favorite tracks: Let It Be,
Across the Universe, The Long and Winding Road.</dd>
  <dt>Help!</dt>
  <dd>This album features Paul's masterpeice: Yesterday. Favorite tracks: Help!,
Ticket to Ride, Yesterday</dd>
</dl>
</body>
</html>
```

10. Answers will vary. Here is a sample with the minimum requirements.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Macaroni Salad</title>
</head>
<body>
<h1>Macaroni Salad</h1>
<ul>
  <li>1 cup elbow macaroni</li>
  <li>1 cup mayonnaise (more or less to taste)</li>
</ul>
```

```
<li>1 tablespoon finely chopped onion</li>
<li>3 or 4 medium radishes, grated</li>
<li>2 hard boiled eggs, chopped</li>
<li>1 dozen medium black olives, chopped</li>
</ul>
<ol>
<li>Prepare 1 cup elbow macaroni according to directions on package. Rinse in
cold water and drain.</li>
<li>Combine remaining ingredients in a large bowl.</li>
<li>Stir in macaroni.</li>
<li>Chill for several hours before serving.</li>
</ol>
Serves 8.
<p><a href="http://allrecipes.com">More Recipes</a></p>
</body>
</html>
```

## Web Research

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

### A. XHTML and HTML Tutorial Research

#### A sample page:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" ><head>
<title>XHTML/HTML Tutorial Research</title>
</head>
<body>
<h1>EchoEcho.com</h1>
<dl>
<dt>URL:</dt>
<dd>http://echoecho.com/html.htm</dd>
<dt>Level:</dt>
<dd>This tutorial is geared for beginners, but may be useful to use as a reference
by more experienced developers.</dd>
<dt>Recommendation:</dt>
<dd>I would recommend this site to others. It is easy to find topics and the
examples are good.</dd>
```

```
</dl>
<h2>Two Concepts Learned:</h2>
<ol>
  <li>Links are the most fundamental part of the world wide web. It is the links that tie it all together. There are three different kinds of links you can have on your website: Links to anchors on the current page (Internal). Links to other pages within the current site (Local) Links to pages outside the current site (Global).
  </li>
  <li>Colors in XHTML are specified using hexadecimal numbers. Hexadecimal numbers are numbers based on the value of 16 rather than the classical numbers based on the value of 10. When you count to 15 using hexadecimal numbers it goes like this: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F.
  </li>
</ol>
</body>
</html>
```

## B. Web Research: Focus on Design

Expect simple answers at this point in the course

A sample analysis of an appealing page:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Appealing Web Site</title>
</head>
<body>
<h1>Adobe</h1>
<h2>URL: http://adobe.com</h2>
<h2>This Page is Appealing Because...</h2>
<ol>
  <li>It is easy to read. There is good contrast between the text and the background color.
  </li>
  <li>There is movement and interactivity on the page. This makes it more interesting.
  </li>
  <li>It is easy to find what I need. The navigation is easy to use.</li>
</ol>
</body>
</html>
```

A sample analysis for an unappealing page:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<title>Unappealing Web Site</title>
</head>
<body>
<h1>Galleria Furnishings</h1>
<h2>URL: http://www.galleriafurnishings.com/</h2>
<h2>This Page is Unappealing Because...</h2>
<ol>
  <li>I have to scroll down to see what I want. There doesn't seem to be any good
organization.
  </li>
  <li>The bottom of the home page has some policy information way off to the right
side. I wonder why they did that?
  </li>
  <li>I can't search for what I want. Instead I'll have to start looking at other
pages.</li>
</ol>
<h3>Suggestions for Improvement:</h3>
<ol>
  <li>I would place more information in the top portion of the web page so that is is
accessible when the page is loaded. This way visitors would not have to scroll so
much.
  </li>
  <li>I would eliminate the extra blank space on the page and move the position of
the store policy information.
  </li>
  <li>I would add a search function to the home page so that customers could get
right to the products they are looking for.
  </li>
</ol>
</body>
</html>
```