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Chapter 2

Self-test exercises

ST1. What does the acronym scp stand for?

Answer: Secure Copy Protocol

ST2. What does the acronym ftp stand for?

Answer: File Transfer Protocol

ST3. What does the acronym http stand for?

Answer: HyperText Transfer Protocol

ST4. Which tag is used to create a table in an HTML5 document?

Answer: ...

ST5. Which tag is used to create an ordered list in an HTML5 document?

Answer: ...

ST6. Which tag is used to create an unordered list in an HTML5 document?

Answer: ...

ST7. Who invented the World Wide Web?

Answer: Tim Berners-Lee

ST8. What are HTML5 tags?

Answer: HTML5 tags are enclosed in a pair of angled brackets <...> and are instructions to the web browsers on the display and behavior of a web page.

ST9. What is the purpose of comments in an HTML5 document? What is the syntax for a comment?

Answer: Comments are used as documentation, so other developers can understand the HTML5 code in the web page. Comments are ignored by the web browser when displaying the web page and are not rendered on the page. A comment is enclosed in <!-- and -->.

ST10. List four HTML5 tags.

Answer:

<head> ...</head>

<body>...</body>

<!DOCTYPE>

<title>...</title>

<html>...</html>

ST11. What is a stylesheet?

Answer: HTML5 defines the structure of a web page. A stylesheet specifies how the elements of a web page should be displayed.

ST12. What does the acronym CSS stand for?

Answer: Cascading Style Sheet

ST13. Which tag is used to include an image in an HTML5 document?

Answer:

ST14. Which tag is used to include a video in an HTML5 document?

Answer: <video>...</video> and <source>

ST15. Which tag is used to create a list item in an HTML5 document?

Answer: ...

ST16. What is the difference between an ordered and unordered list in an HTML5 document?

Answer: Labels in an ordered list follow a numeric or alphabetical order, such as 1, 2, 3, ... or a, b, c. The unordered list is labeled with symbols such as bullets.

Programming exercises

PE1. Write the CSS3 and HTML5 that will create the following display:

Programming Exercises

Devices

PE2. Write the CSS3 for the web page from the previous exercise web page that will create the following display:

Programming Exercises

Devices

Answer:

HTML5:

Same as PE7

CSS3:

```
h1, p {
  text-align: center;
  color: white;
}

body {
  background-color: black;
}
```

PE3. Write HTML5 code that will create the following display:

Apple iOS	iPad	iPhone	iPod touch	
Google Android	Nexus /	1 - 1	Samsung Galaxy Notes 4	HP Slate 7
Blackberry OS	Z10	Blackberry Q10		
Microsoft Windows Phone OS/RT	Nokia	Samsung ATIV	Surface	

Answer:

```
Apple iOS
  iPad
  iPhone
  iPod touch

Google Android
  Nexus 7
  Samsung Galaxy Notes 8
  Samsung Galaxy Notes 4
  HP Slate 7
Blackberry OS
  Blackberry Z10
  Blackberry Q10

Microsoft Windows Phone OS/RT
  Nokia
  Samsung ATIV
  Surface
```

PE4. Write the CSS3 for your answer to PE3 that will create the following display:

Apple iOS	iPad	iPhone	iPod touch	
Google Android	Nexus 7	Samsung Galaxy Notes 8	Samsung Galaxy Notes 4	HP Slate 7
Blackberry OS	Blackberry Z10	Blackberry Q10		
Microsoft Windows Phone OS/RT	Nokia	Samsung ATIV	Surface	

Answer:

```
body {
  background-color: black;
}

table {
  background-color: gold;
  border-radius: 5px;
  border-collapse: collapse;
}

table td {
  border: 1px solid black;
  padding: 5px;
}
```

PE5. Create a web page that looks like:

First HTML5 document

Available on the web

I am reading this book to learn how to develop websites that can be accessed from any device and can serve as cross-platform apps.

The devices I will test will be running the following operating systems:

Apple iOS Google Android Blackberry OS Microsoft Windows Phone OS

Get an account from your system administrator and upload your web page to your account.

Answer:

```
<!DOCTYPE html>
<html>
 <head>
    <title>First HTML5 document</title>
  </head>
  <body>
    <h1>First HTML5 document</h1>
    <h3>Available on the web</h3>
    >
    I am reading this book to learn how to develop
   websites that can be accessed from any device
    and can serve as cross-platform apps.
    <hr>
    The devices I will test will be running the following operating
systems:
    <br><br><br>>
    Apple iOS
    <br>
    Google Android
    <br>
    Blackberry OS
    Microsoft Windows Phone OS
    </body>
</html>
```

You will need a username and password from the system administrator.

You will need to find the name of the folder where you are supposed to copy the web pages so that they can be viewed on the World Wide Web.

You need a program such as WinSCP to upload the web page.

Finally, you need to set the permissions of the web pages, so the web server can access them.

PE6. View your web page from as many devices and web browsers as possible.

Answer: You can either test them on physical devices, or download and install the emulators as described in Chapter 2

PE7. Write HTML5 code that will create the following display:

```
    Apple iOS

      o iPad

    iPhone

    iPod touch

Google Android

    Nexus 7

    Samsung Galaxy Notes 8

    Samsung Galaxy Notes 4

    HP Slate 7

3. Blackberry OS

    Blackberry Z10

    Blackberry Q10

4. Microsoft Windows Phone OS/RT

    Nokia

    Samsung ATIV

    Surface
```

(Hint: You can nest an ... pair of tags inside a pair of ...)
Answer:

```
<1i>>
  Apple iOS
 <l
   iPad
   iPhone
   iPod touch
 <1i>>
 Google Android
 <l
   Nexus 7
   Samsung Galaxy Notes 8
   Samsung Galaxy Notes 4
   HP Slate 7
 <1i>>
 Blackberry OS
 <l
   Blackberry Z10
   Blackberry Q10
 <1i>>
 Microsoft Windows Phone OS/RT
 <111>
   Nokia
   Samsung ATIV
```

PE8. Write HTML5 code that will create the following display:

- 1. Apple iOS
- 2. Google Android
- 3. Blackberry OS
- 4. Microsoft Windows Phone OS

Answer:

Programming projects

PRJ1. **Binary operator.** Create a web page that describes various binary operators such as "and", "or", "not", "xor".

Use tables, ordered and unordered lists, other relevant tags such as <mark>, , <sup>, and CSS3 to improve the appearance of the web page.

Hint: You can search for the term "binary operators" on the web. You will find many relevant websites that will help you create content for your web page.

PRJ2. **Amortization calculations:** Create a web page that describes how to compute the annual cost of a project that costs *p* and is funded by a loan at an interest *i* over *y* number of years.

Use tables, ordered and unordered lists, other relevant tags such as <mark>, , <sup>, and CSS3 to improve the appearance of the web page.

Hint: You can search for the term "amortization calculations" on the web. You will find many relevant websites.

PRJ3. **Compute the load distribution on a beam**. Assume that you have a one-dimensional beam resting on two rigid supports. The beam has a length described by the variable *length*. We have put a weight *w* at a distance *d*, where *d* < *length*, from the left end of the beam. You should find out the reaction forces on the left and right ends of the beam. You can make this project as complicated as you are capable of solving. You can have multiple weights, uniformly distributed load, and uniformly varying loads.

Use tables, ordered and unordered lists, other relevant tags such as <mark>, , <sup>, and CSS3 to improve the appearance of the web page.

Hint: You can search for the term "load distribution on beams" on the web. You will find many relevant websites.

PRJ4. **Electricity calculations:** Create a web page that describes the physical relationship between current, voltage, resistance, and amount of electricity consumed.

Use tables, ordered and unordered lists, other relevant tags such as <mark>, , <sup>, and CSS3 to improve the appearance of the web page.

Hint:

You can search for the term "current voltage resistance electricity consumption" on the web. You will find many relevant websites.