Exercises

1. **Course Website:** Write valid HTML code to generate the following content between but not including the black bars:

   ![Web Programming Course Website](image)

   **Home** | **Homework** | **Lectures**

   **Announcements**

   - “Welcome to Web Programming!”
   - If you have any problems with grading, talk to a TA
   - It is very important to do the practice problems in the book.

   ![Validator](image)

   - The "Home" link should link to "index.html", the "Homework" link to "homework.html" and the "Lectures" link to "lectures.html".
   - The validator button's image can be found at http://www.w3.org/Icons/valid-xhtml11. When clicked the button should link to http://validator.w3.org/check/referer. If the validator button cannot be loaded, "Validate XHTML" should be displayed instead.

2. **Dr. Strangelove’s To-Do List:** Write valid HTML code to generate the following content:

   **Dr. Strangelove's List of Things to Do**

   Freshman year is harder than I thought. This is the reason for Dr. Strangelove's List of Things to Do.

   - Return $1 to Jeff for that hamburger
   - Do HW (list is sorted by easiness of HW)
     1. CSE 190M Meringue Pie
     2. Chemistry Atom Bomb Construction
     3. Psychology - Basics of Mind Control
   - Buy textbooks

3. **Fish Facts:** The following HTML code displays a webpage correctly but is not valid XHTML. Rewrite the code in valid XHTML.
4. **Penguins:**
   a) Draw a picture of how the following HTML will look when the browser renders it onscreen.
   b) Draw another picture of how the HTML will look in the browser if the additional CSS is applied to the page.

```html
<h1 class="foo">Penguins</h1>
<ul id="foo"><li>Emperor</li><li>Gentoo</li></ul>
<p class="foo">Everyday after the <span class="bar">sun</span> comes up we<br />go to the sea to play with <img id="bar" src="penguin.jpg" alt="penguins" /></p>
```

```css
#foo { background-color: yellow; }
.foo { font-family: monospace; }
#bar { border: 1px solid black; }
```

5. **Apples:**
   a) Draw a picture of how the following HTML will look when the browser renders it onscreen.
   b) Draw another picture of how the HTML will look in the browser if the additional CSS is applied to the page.
6. **Busy Schedule:** Given the following HTML code, write CSS to make the following style changes:

a) All elements in the body should have a white background with a text color of #330033 and the font Verdana or any serif available on the viewer's computer.

b) The first-level headers are 40px bold serif font. The second-level headers are 24px underlined sans serif.

c) Paragraph text and lists should have a width of 550px and a top and bottom padding of 10px.

d) Ordered lists should have a background color of #FFCC99 and unordered lists should have a background color of #CCFFCC. All list elements should be in italics.

e) Links should never show the default underlining and upon hovering they should become neon green (#33ff33).
4 Exercises

<h1>Being Busy</h1>
<p>It's not easy being busy! But that doesn't mean it can't be fun.</p>

<h2>Important Things To Do</h2>
<ol>
  <li><a href="phys.html">Turn in</a> Physics HW!</li>
  <li>Do Reading for English</li>
  <li>Go To the Store for Groceries</li>
  <li>Pay Tuition</li>
  <li>Make sure program compiles...</li>
</ol>

<h2>Fun Things To Do</h2>
<ul>
  <li>Sleep In</li>
  <li>Out to Dinner with Friends</li>
  <li>Go Swimming</li>
  <li>Finish Painting</li>
  <li>Go to the Movies: <a href="movies.html">see what's playing</a></li>
</ul>